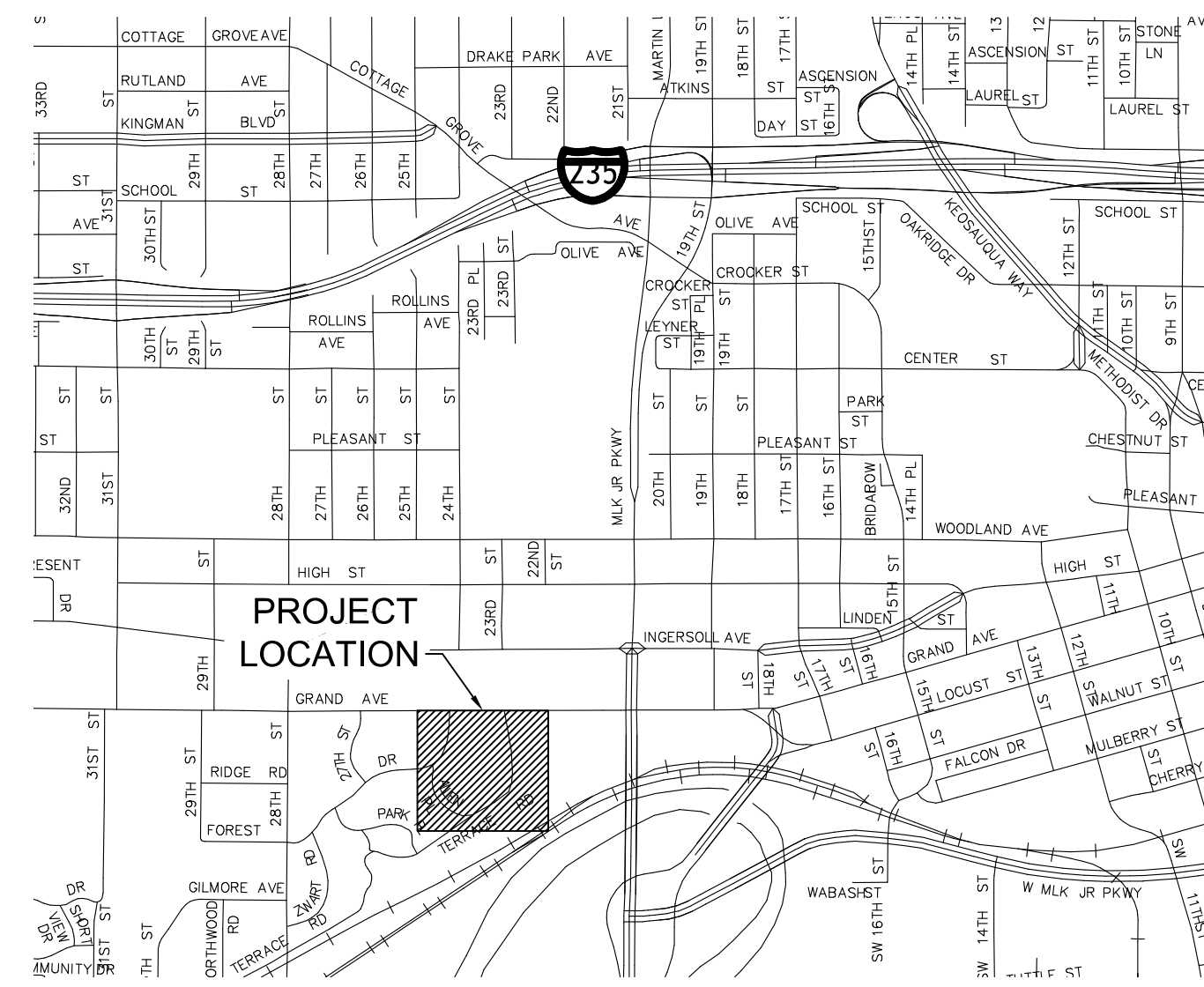


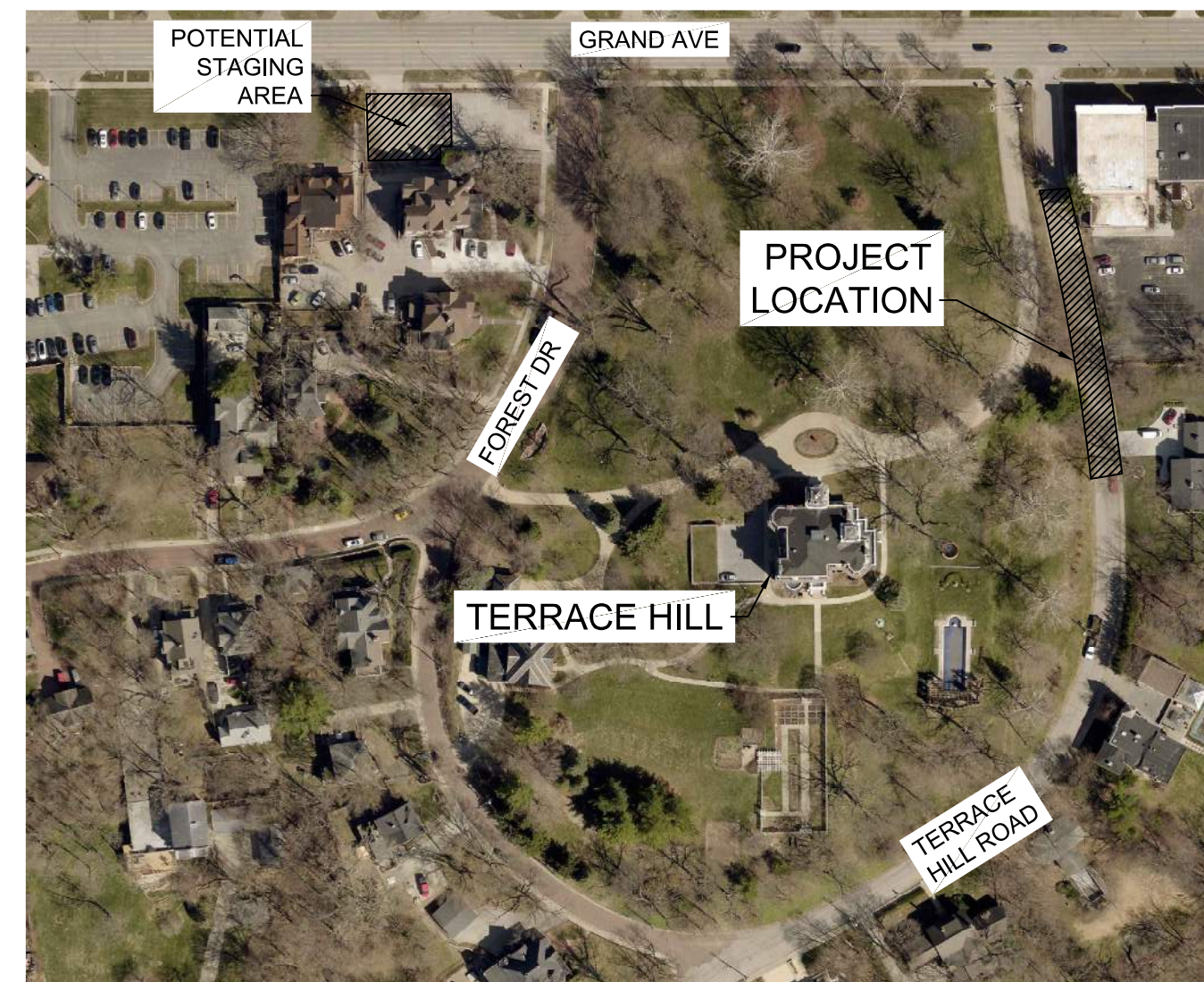
DAS TH TERRACE HILL RD RETAINING WALL REPAIRS

DAS PROJECT NO: 9373.00

TERRACE HILL
2300 GRAND AVE
DES MOINES, IA 50312



VICINITY MAP
NTS



PROJECT MAP
NTS

Sheet List Table	
Sheet Number	Sheet Title
C000	COVER SHEET
C001	GENERAL NOTES
CD01	DEMOLITION PLAN
C101	SITE PLAN
C201	EXCAVATION PLAN
C501	CONSTRUCTION DETAILS
A100	PHOTOGRAPHS OF REMAINING RETAINING WALL
A101	PHOTOGRAPHS OF REMAINING RETAINING WALL
A102	PHOTOGRAPHS OF DETAILS
S000	STRUCTURAL GENERAL INFORMATION
S001	SPECIAL INSPECTIONS
S100	FOUNDATION PLAN AND ELEVATION
S500	DETAILS

CONTACT INFORMATION

ENGINEER

SHIVE-HATTERY, INC.
ATTN: CHRIS BAUER OR CHRIS MARVIN
CBAUER@SHIVE-HATTERY.COM
CMARVIN@SHIVE-HATTERY.COM
4125 WESTOWN PKWY, SUITE 100
WEST DES MOINES, IOWA 50266
PHONE: (515) 223-8104

CONSTRUCTION MANAGER

DCI GROUP
ATTN: TRAVIS HOYLE
TRAVISH@DCIGROUP-US.COM
220 SE 6TH ST, SUITE 200
DES MOINES, IOWA 50309
PHONE: (515) 244-5043

OWNER

IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES
STATE DESIGN AND CONSTRUCTION RESOURCES BUREAU
ATTN: JAMES TROWER
JAMES.TROWER@IOWA.GOV
109 SE 13TH STREET
DES MOINES, IOWA 50319
PHONE: 515-725-1293

SITE ADDRESS

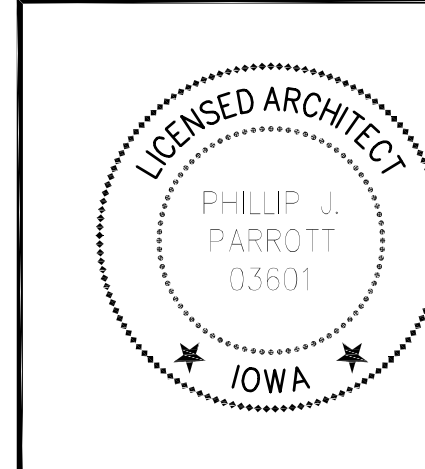
TERRACE HILL
2300 GRAND AVE
DES MOINES, IA 50312

STRUCTURAL ENGINEER



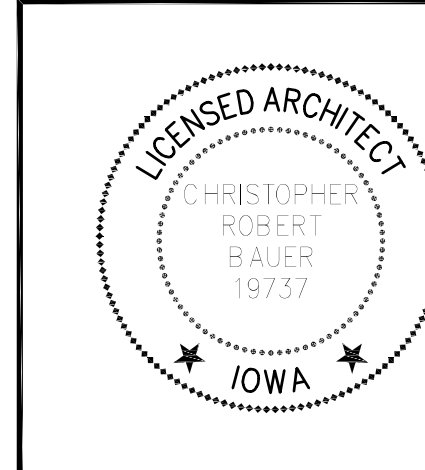
I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT DESCRIBED BELOW WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF IOWA.
Signature: *Chris Marvin* Date: 7-10-2024
Printed or typed name: CHRISTOPHER R. MARVIN
License Number: P27417
My License Renewal Date is: DECEMBER 31, 2025
PAGES, SHEETS OR DIVISIONS COVERED BY THIS SEAL:
ALL 'S' SHEETS

ARCHITECT



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Signature: *Phillip J. Parrott* Date: 7-10-2024
Printed or typed name: PHILLIP J. PARROTT
License Number: 03601
My License Renewal Date is: DECEMBER 31, 2025
PAGES, SHEETS OR DIVISIONS COVERED BY THIS SEAL:
ALL 'A' SHEETS

CIVIL ENGINEER



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Signature: *Chris Bauer* Date: 7-10-2024
Printed or typed name: CHRISTOPHER R. BAUER
License Number: 19737
My License Renewal Date is: DECEMBER 31, 2025
PAGES, SHEETS OR DIVISIONS COVERED BY THIS SEAL:
ALL 'C' SHEETS

- REMOVE SOUTH PORTION OF RETAINING WALL AND CONSTRUCT NEW CONCRETE AND MASONRY RETAINING WALL
- SALVAGE BRICK FROM REMOVED WALL FOR REPAIRS TO EXISTING RETAINING AND 150 BRICKS IN GOOD CONDITION AND WITH MORTAR REMOVED. TURN OVER 150 BRICKS ON PALLET TO THE OWNER.
- REPOINT DETERIORATED MORTAR JOINTS IN REMAINING RETAINING WALL.
- REPAIR CRACKS IN EXISTING CONCRETE CAP
- CLEAN ENTIRE SURFACE OF REMAINING RETAINING WALL
- RETAINING WALL IS OUTSIDE OF THE SECURITY PERIMETER OF TERRACE HILL

GENERAL NOTES

- THE LOCATIONS OF UTILITY MAINS, STRUCTURES AND SERVICE CONNECTIONS PLOTTED ON THESE DRAWINGS ARE APPROXIMATE ONLY AND WERE OBTAINED FROM RECORDS MADE AVAILABLE TO SHIVE-HATTERY, INC. THERE MAY BE OTHER EXISTING UTILITY MAINS, STRUCTURES AND SERVICE CONNECTIONS NOT KNOWN TO SHIVE-HATTERY, INC. AND NOT SHOWN ON THESE DRAWINGS. THE VERIFICATION OF EXISTENCE OF, AND THE DETERMINATION OF THE EXACT LOCATION OF, UTILITY MAINS, STRUCTURES AND SERVICE CONNECTIONS SHALL BE THE RESPONSIBILITY OF THE CONSTRUCTION CONTRACTOR(S).
- CONTRACTOR SHOULD ANTICIPATE THAT ADDITIONAL UTILITIES THAT ARE NOT SHOWN WILL BE ENCOUNTERED. CONTRACTOR TO WORK WITH FACILITY AND ENGINEER AS REQUIRED TO MAKE FIELD ADJUSTMENTS.
- IOWA CODE UNDERGROUND FACILITIES INFORMATION, REQUIRES VERBAL NOTICE TO IOWA ONE-CALL 1-800-292-8989, NOT LESS THAN 48 HOURS BEFORE EXCAVATING, EXCLUDING WEEKENDS AND HOLIDAYS.
- NOTIFY UTILITY COMPANIES WHOSE FACILITIES ARE SHOWN ON THE PLANS OR KNOWN TO BE WITHIN THE CONSTRUCTION LIMITS OF THE SCHEDULE PRIOR TO EACH STAGE OF CONSTRUCTION.
- CONTRACTOR SHALL VERIFY AND COORDINATE WITH OWNER TO LOCATE ALL PRIVATE UTILITIES WHICH WILL BE IMPACTED BY CONSTRUCTION.
- THE MEANS OF THE WORK AND THE SAFETY OF THE CONTRACTOR'S EMPLOYEES ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
- NO WORK SHALL BE PERFORMED BEYOND THE PROJECT LIMITS WITHOUT PRIOR AUTHORIZATION FROM THE OWNER'S REPRESENTATIVE.
- UNLESS OTHERWISE SPECIFIED, ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE IOWA STATEWIDE URBAN DESIGN SPECIFICATIONS FOR PUBLIC IMPROVEMENTS.
- PROTECT EXISTING UTILITIES AND STRUCTURES TO REMAIN DURING CONSTRUCTION.
- MAINTAIN POSITIVE DRAINAGE ON THE SITE THROUGHOUT THE PROJECT DURATION.
- SITE CLEANUP SHALL BE PERFORMED ON A DAILY BASIS. DRIVES, ROADWAYS, ETC. SHALL BE KEPT CLEAN AT ALL TIMES.

- ALL OPEN EXCAVATIONS SHALL BE PROTECTED.
- CONTROL DUST SPREADING FROM ALL WORK AND STAGING AREAS.
- ANY WORK REQUIRED TO COMPLETE THE SCOPE OF THIS PROJECT, BUT NOT SPECIFICALLY CALLED OUT, SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR THE COMPLETION OF THIS WORK.
- REPAIR OR REPLACE DAMAGED FACILITIES (WALLS, PAVEMENT, UTILITIES, FENCES, ETC.) TO REMAIN AT NO ADDITIONAL EXPENSE TO THE OWNER.
- WORK WHICH DOES NOT CONFORM TO THE REQUIREMENTS OF THE CONTRACT WILL BE CONSIDERED UNACCEPTABLE. UNACCEPTABLE WORK, WHETHER THE RESULT OF POOR WORKMANSHIP, USE OF DEFECTIVE MATERIALS, DAMAGE THROUGH CARELESSNESS OR ANY OTHER CAUSE FOUND TO EXIST PRIOR TO THE FINAL ACCEPTANCE OF THE WORK SHALL BE REMOVED AND REPLACED IN AN ACCEPTABLE MANNER AS REQUIRED BY OWNER'S REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE. WORK DONE CONTRARY TO THE INSTRUCTIONS OF THE OWNER'S REPRESENTATIVE, WORK DONE BEYOND THE LINES SHOWN ON THE PLANS OR ANY EXTRA WORK DONE WITHOUT WRITTEN AUTHORIZATION WILL NOT BE PAID FOR.
- ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY/COUNTY/STATE REGULATIONS/CODES AND OSHA STANDARDS.
- EROSION CONTROL MEASURES SHALL BE PROVIDED AND MAINTAINED THROUGHOUT CONSTRUCTION TO MEET REQUIREMENTS OF THE CITY OF DES MOINES AND IOWA DNR REQUIREMENTS, INCLUDING MEASURES AT POINT DISCHARGE LOCATIONS/INTAKES OUTSIDE OF THE PROJECT AREA.
- CONTRACTOR TO REPAIR AND REPLACE ANY DAMAGE TO EXISTING ROADS AND SIDEWALKS CAUSED BY CONSTRUCTION ACTIVITIES.
- CONTRACTOR SHALL PROVIDE ALL TRAFFIC CONTROL ACCORDING TO MUTCD AND CITY OF DES MOINES REQUIREMENTS INCLUDING OBTAINING REQUIRED CITY PERMITTING. ACCESS TO ADJACENT BUSINESSES AND RESIDENTIAL DRIVEWAYS MUST BE MAINTAINED THROUGHOUT CONSTRUCTION. PROJECT INTENT IS TO MAINTAIN A SINGLE LANE OF TRAFFIC EXCEPT FOR LIMITED DURATIONS DURING CONCRETE POURS AND STREET PATCHING.

- CONTRACTOR SHALL PROVIDE ALL LAYOUT AND STAKING REQUIRED TO COMPLETE THE PROJECT. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ACCURACY AND REESTABLISHING SURVEY CONTROL POINTS AS REQUIRED FOR CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR CITY OF DES MOINES RIGHT-OF-WAY PERMITTING THAT WILL BE REQUIRED FOR THIS PROJECT. CONTRACTOR SHALL PREPARE A TRAFFIC CONTROL PLAN ACCORDING TO THEIR PROPOSED MEANS AND METHODS AND PROVIDE TO THE CITY AS PART OF THE RIGHT-OF-WAY PERMITTING PROCESS. CONTRACTOR IS RESPONSIBLE FOR ALL PERMITTING FEES WHICH SHALL INCLUDE ROW PERMIT FEES THAT ARE BASED ON PROJECT DURATION. FOR REFERENCE ONLY THE CITY PRELIMINARILY ESTIMATED THE FEES AT \$45 PER WEEK WHICH SHOULD BE VERIFIED BY THE CONTRACTORS DURING BIDDING.

SHIVE-HATTERY
ARCHITECTURE + ENGINEERING
4125 WESTOWN PKWY, SUITE 100
WEST DES MOINES, IOWA 50266
515.223.8104 | SHIVE-HATTERY.COM

DAS TH TERRACE RD RETAINING WALL REPAIRS
IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES
TERRACE HILL
2300 GRAND AVE, DES MOINES, IA 50312

BDD	CRB	CONSTRUCTION	07/09/2024	214220241	I
DRAWN BY	APPROVED BY	ISSUED FOR	ISSUE DATE	PROJECT NUMBER	FIELD BOOK

COVER SHEET
C000

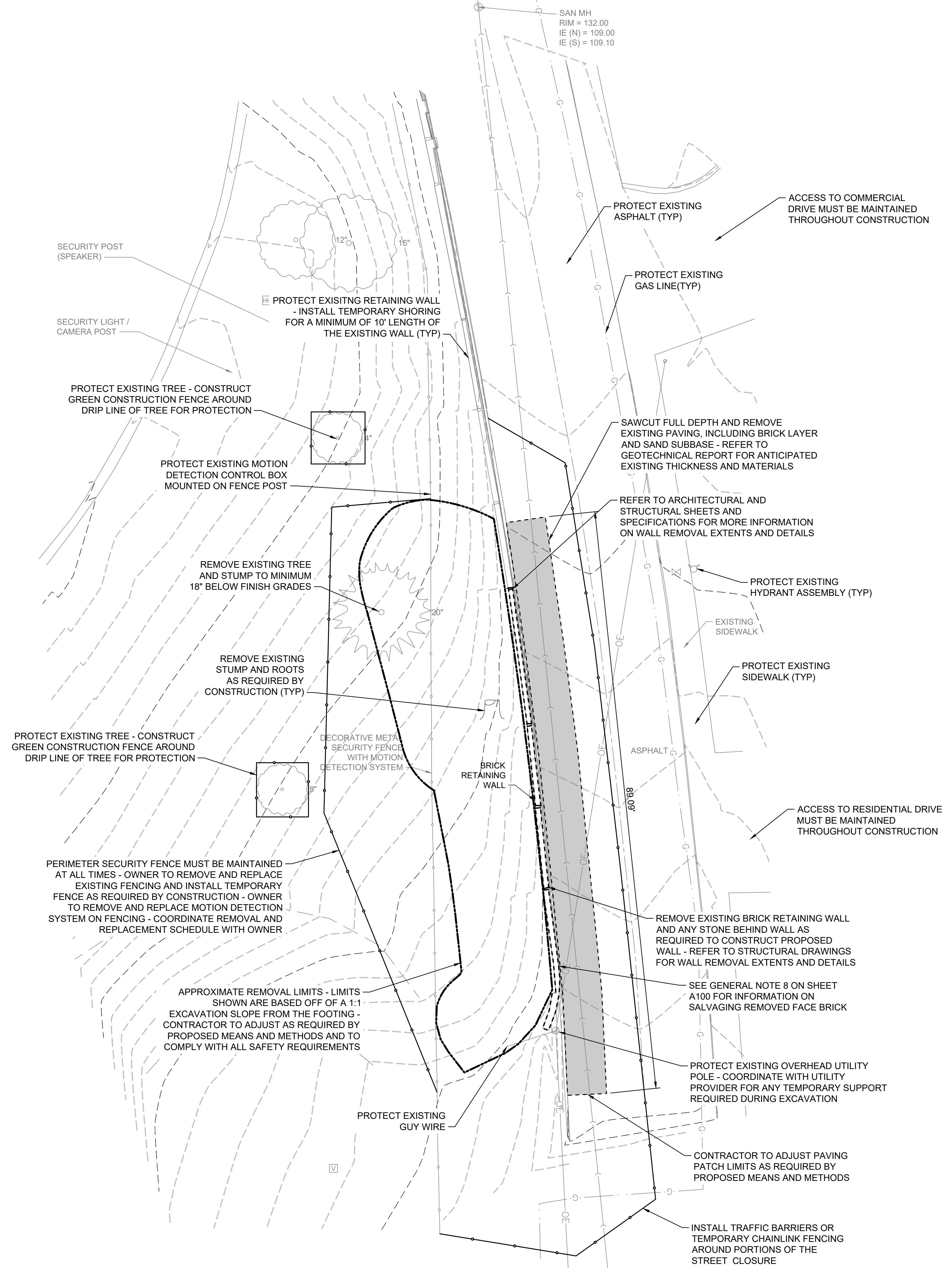
DAS TH TERRACE RD RETAINING WALL REPAIRS

IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES
TERRACE HILL
2300 GRAND AVE., DES MOINES, IA 50312

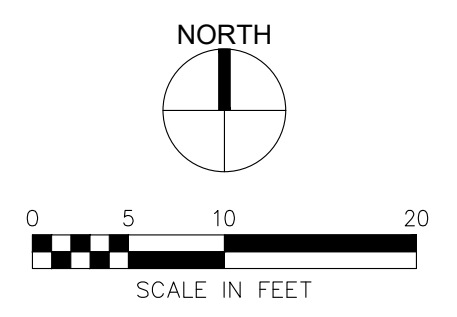
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APPROVED BY	CRB
ISSUED FOR	CONSTRUCTION
ISSUE DATE	07/09/2024
PROJECT NUMBER	2142202241
FIELD BOOK	

DEMOLITION PLAN

CD01

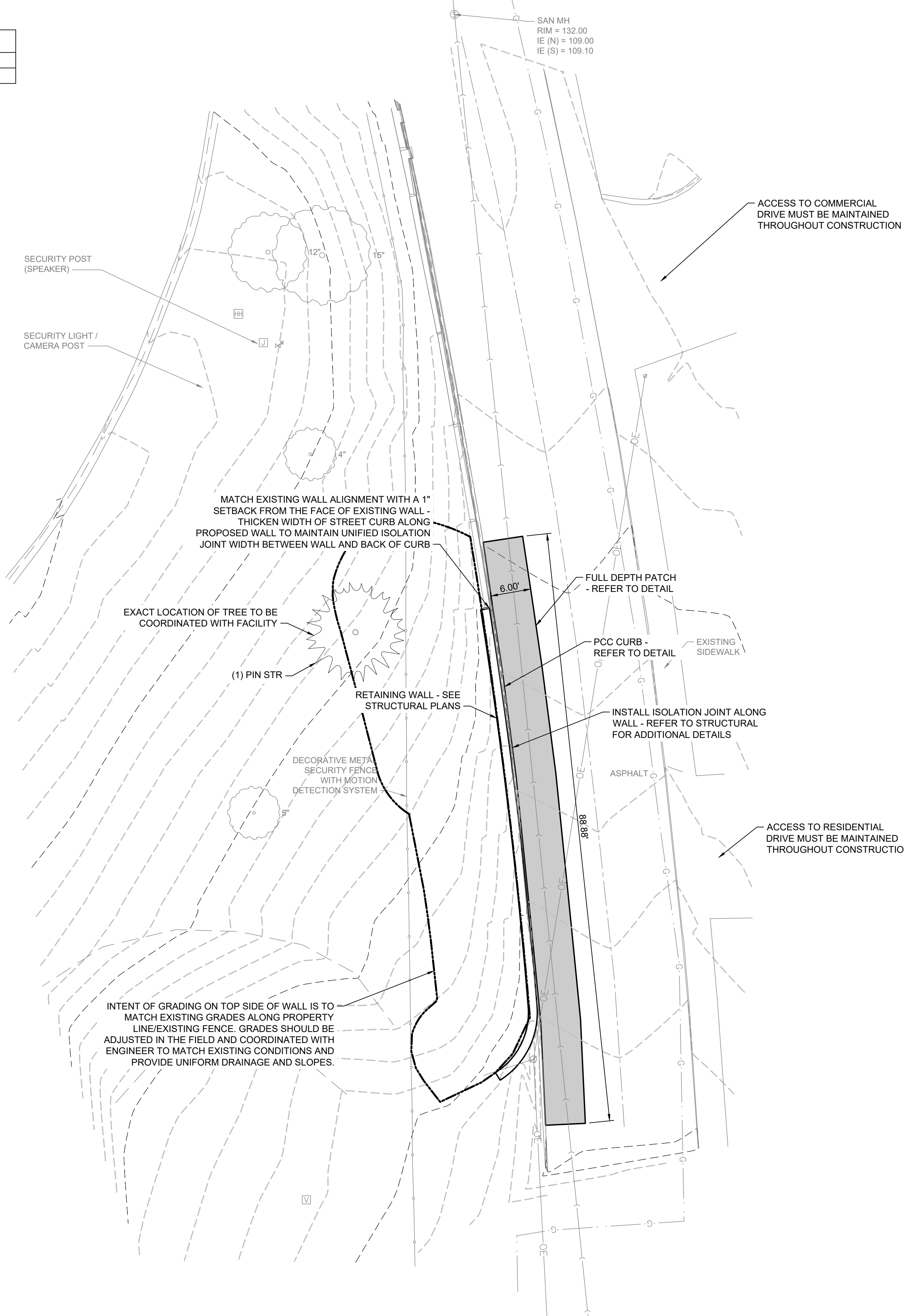


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1	577269.72	1599813.23	124.37	CP1 CX
2	576646.16	1599833.31	125.01	CP2 CX
3	579807.49	1613048.04	94.93	CP3 CX



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PLANT SCHEDULE					
TREES	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE
PIN STR	1	Pinus Strobus	Eastern White Pine	B & B	6' HT



CONTROL POINT TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	577269.72	1599813.23	124.37	CP1 CX
2	576646.16	1599833.31	125.01	CP2 CX
3	579807.49	1613048.04	94.93	CP3 CX

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ARCHITECTURE + ENGINEERING

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WEST DES MOINES, IOWA 50266
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DAS TH TERRACE RD RETAINING WALL REPAIRS

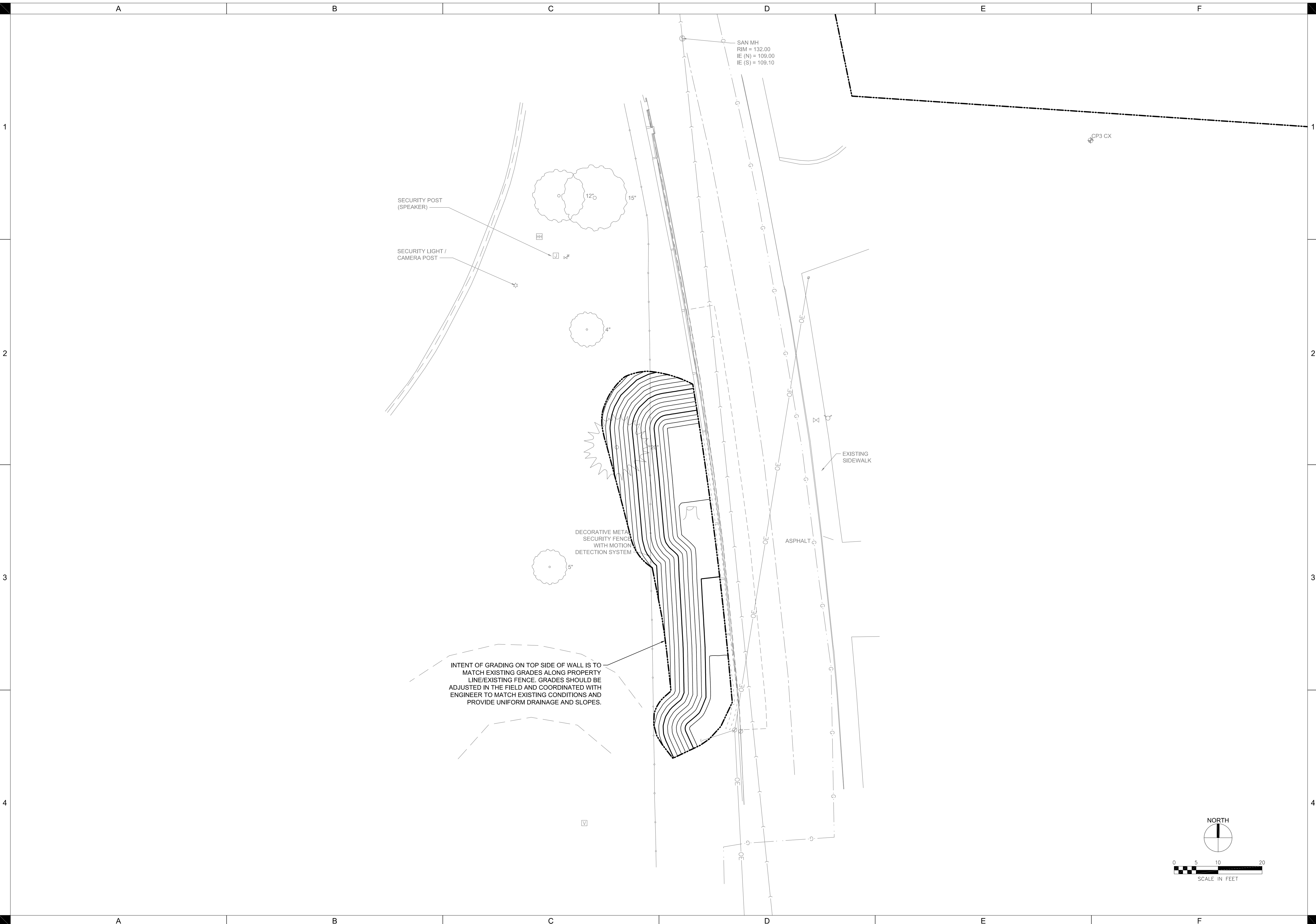
IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES
TERRACE HILL
2300 GRAND AVE., DES MOINES, IA 50312

SITE PLAN

DRAWN BY	BDD	APPROVED BY	CRB
ISSUED FOR	CONSTRUCTION	ISSUE DATE	07/09/2024
PROJECT NUMBER	214220241	FIELD BOOK	--

C101

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SECURITY POST (SPEAKER)

SECURITY LIGHT / CAMERA POST

DECORATIVE METAL SECURITY FENCE WITH MOTION DETECTION SYSTEM

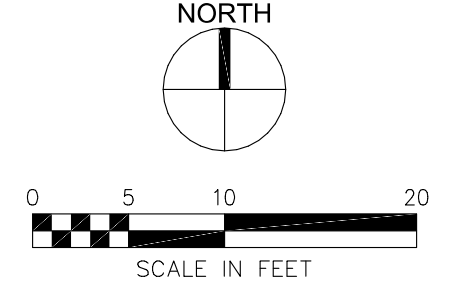
INTENT OF GRADING ON TOP SIDE OF WALL IS TO MATCH EXISTING GRADES ALONG PROPERTY LINE/EXISTING FENCE. GRADES SHOULD BE ADJUSTED IN THE FIELD AND COORDINATED WITH ENGINEER TO MATCH EXISTING CONDITIONS AND PROVIDE UNIFORM DRAINAGE AND SLOPES.

SAN MH
RIM = 132.00
IE (N) = 109.00
IE (S) = 109.10

CP3 CX

EXISTING SIDEWALK

ASPHALT



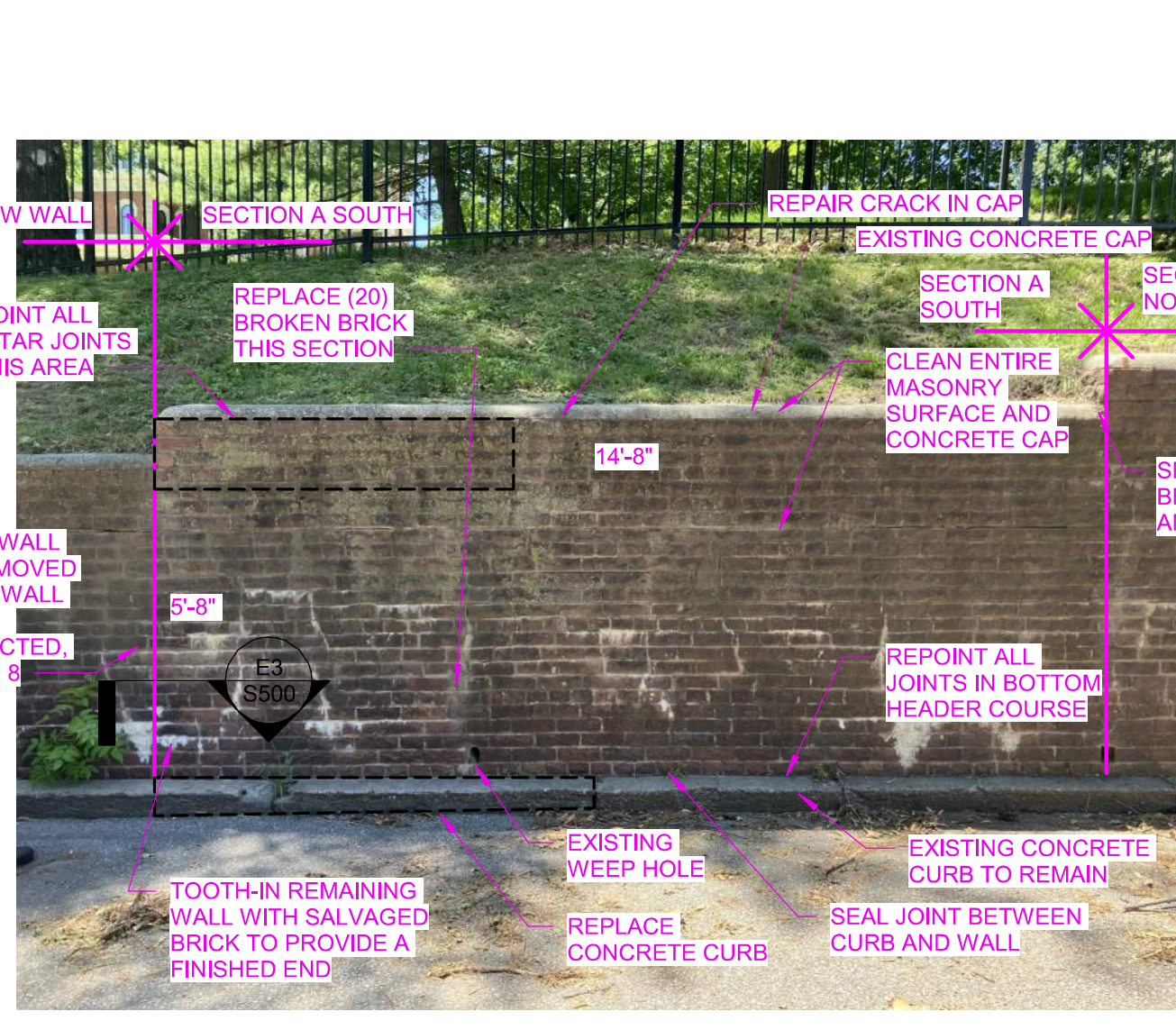
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APPROVED BY	CRB
ISSUED FOR	CONSTRUCTION
ISSUE DATE	07/09/2024
PROJECT NUMBER	214220241
FIELD BOOK	--

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APPROVED BY	PJP
ISSUED FOR	CONSTRUCTION
ISSUE DATE	7/9/2024
PROJECT NUMBER	214220241
FIELD BOOK	

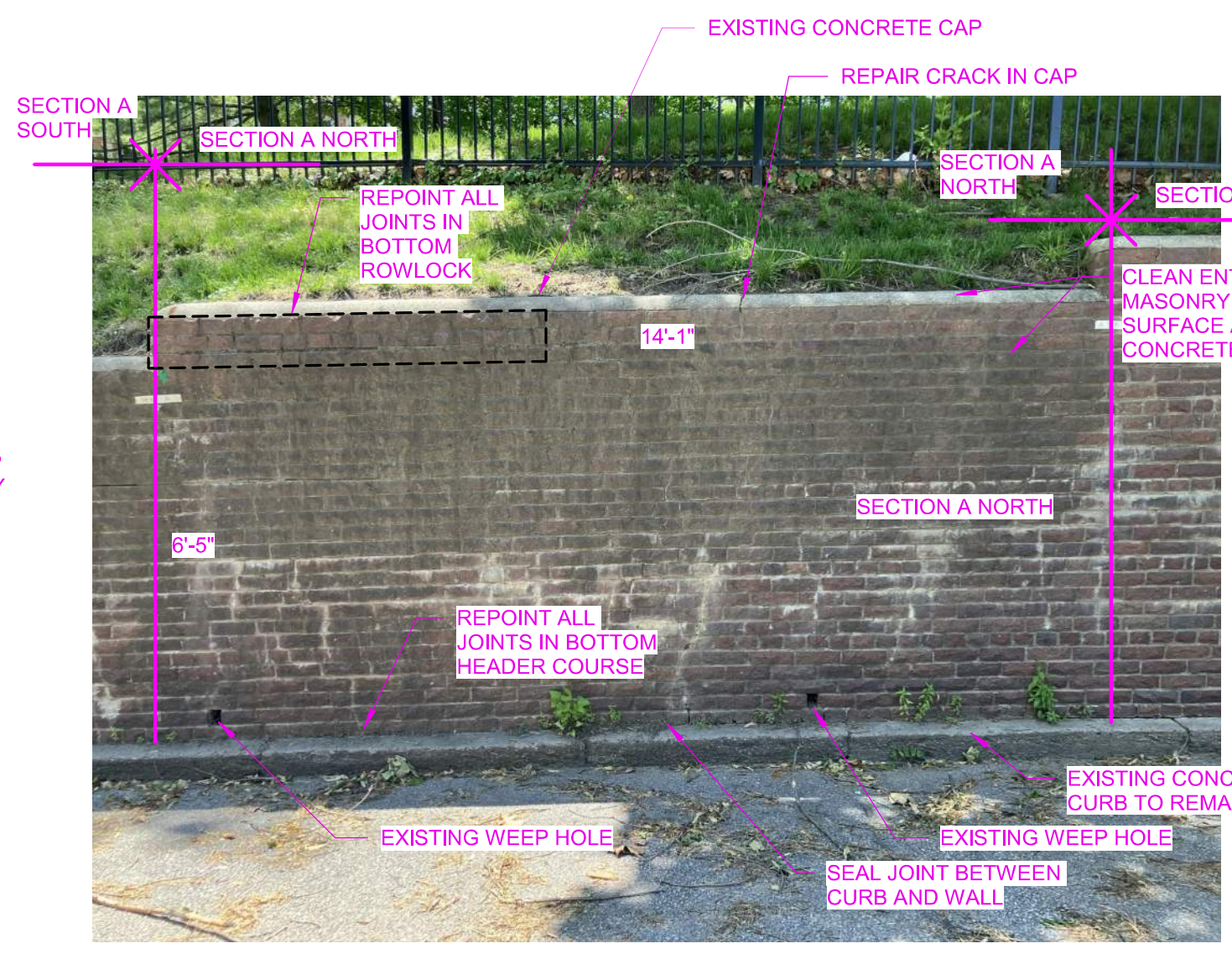
PHOTOGRAPHS OF REMAINING RETAINING WALL

GENERAL NOTES

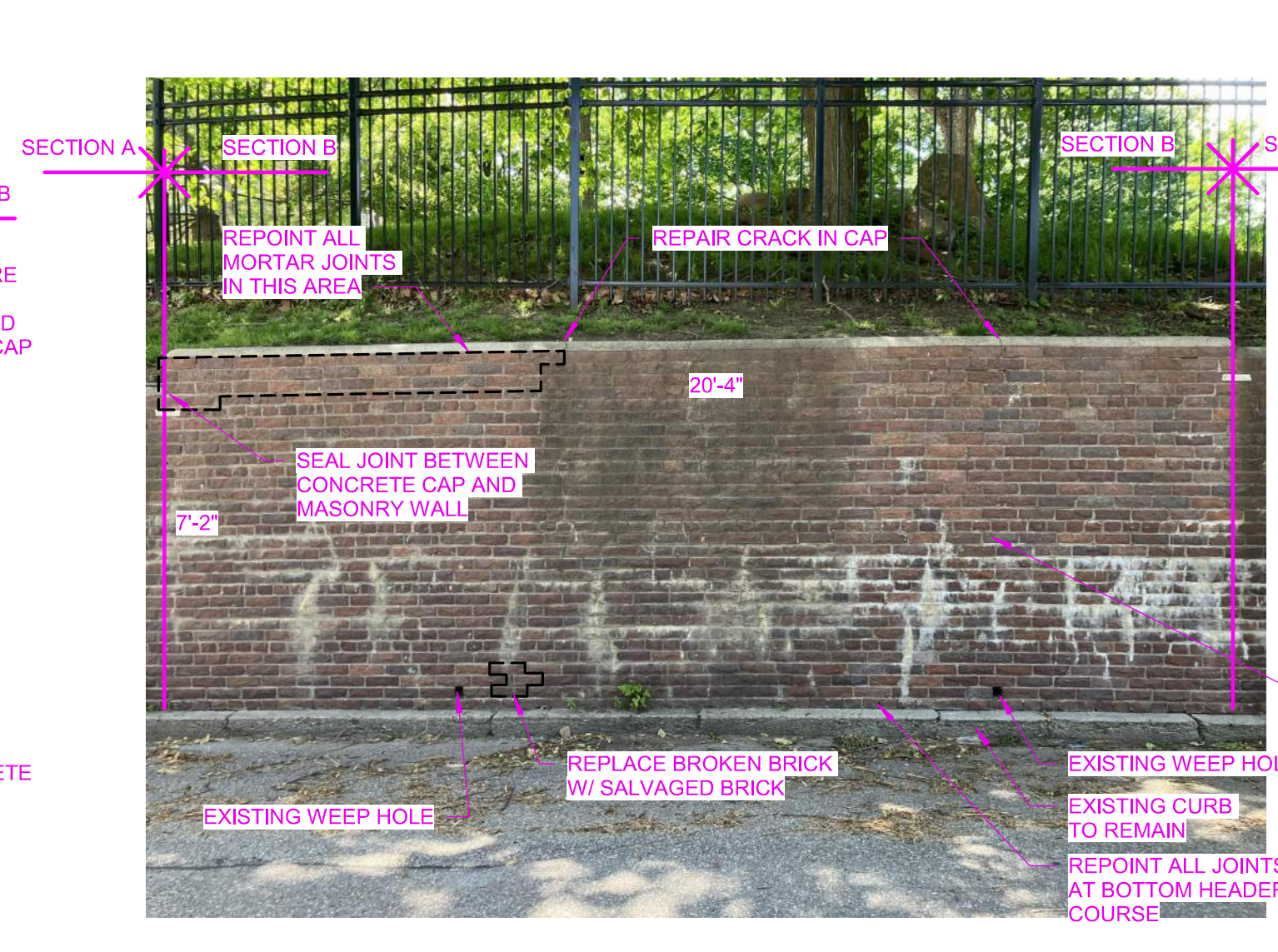
- ENTIRE RETAINING WALL TO BE CLEANED.
- REMOVE ALL VEGETATION FROM WALL AND CURB INCLUDING REMNANTS OF VINE.
- BED JOINTS ARE SET PARALLEL TO THE SLOPE AND CURVATURE OF THE ROAD.
- EVERY 5TH COURSE OF BRICK IS A HEADER COURSE.
- AREA OF RETAINING WALL APPROXIMATELY 1,475 SQ. FT. CONFIRM DIMENSIONS AND AREAS, NOTIFY ARCHITECT OF DISCREPANCIES.
- LENGTH OF RETAINING IS APPROXIMATELY 284 LINEAL FEET.
- IN ADDITION TO THE AREAS INDICATED TO HAVE ALL THE MORTAR JOINTS REPOINTED, INCLUDE ALLOWANCE TO REPOINT 1000 LINEAL FEET OF JOINT.
- SALVAGE BRICK OF THE REMOVED PORTION OF THE RETAINING WALL TO REPAIR DAMAGED BRICK IN THE REMAINING RETAINING WALL. INCLUDE SALVAGING 150 BRICKS TO BE TURNED OVER TO THE OWNER. SALVAGED BRICKS TO BE IN GOOD CONDITION AND HAVE THE MORTAR REMOVED.



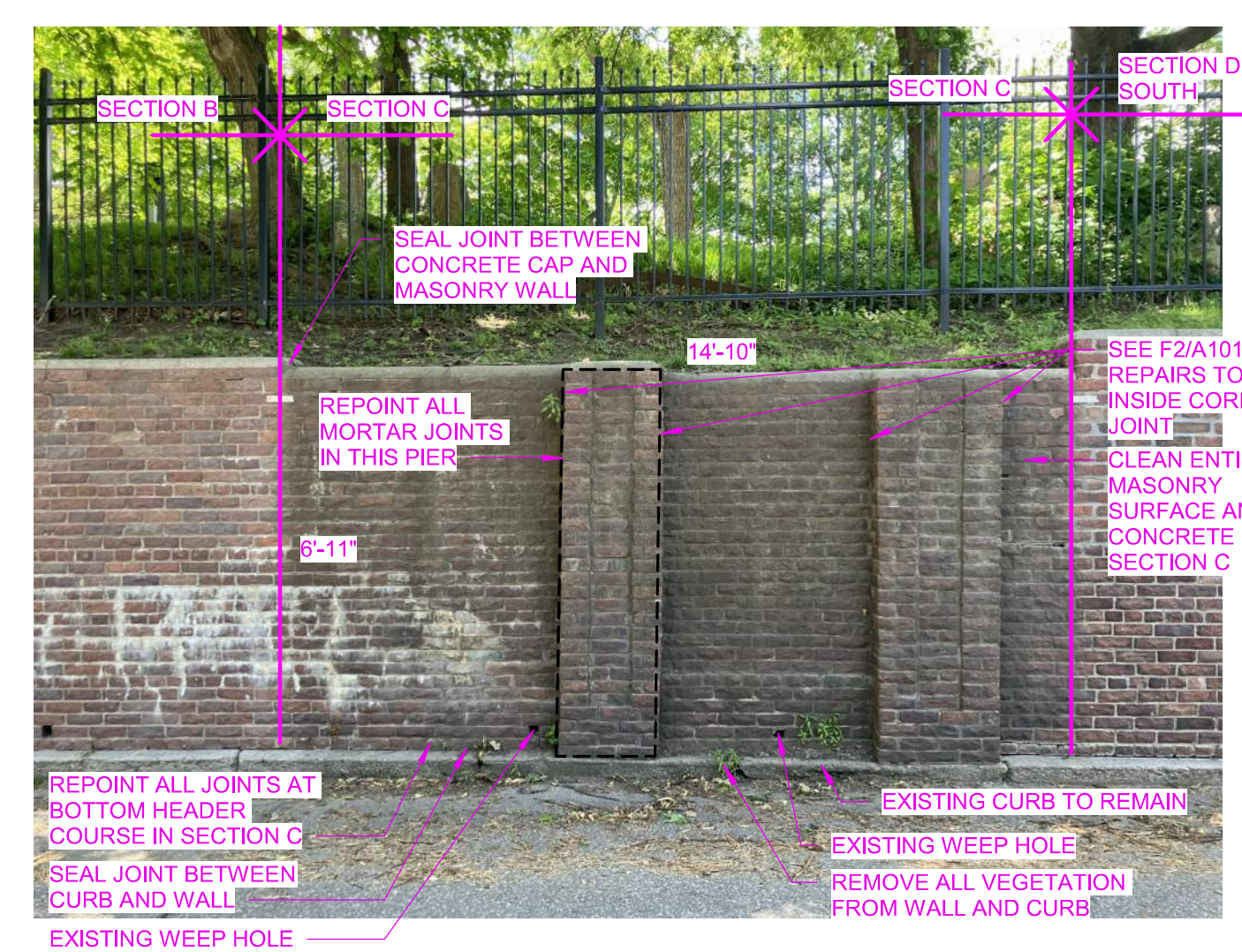
A2 SECTION A SOUTH SECTION A SOUTH - 83 SQ. FT.
1/8" = 1'-0" 0' 12'



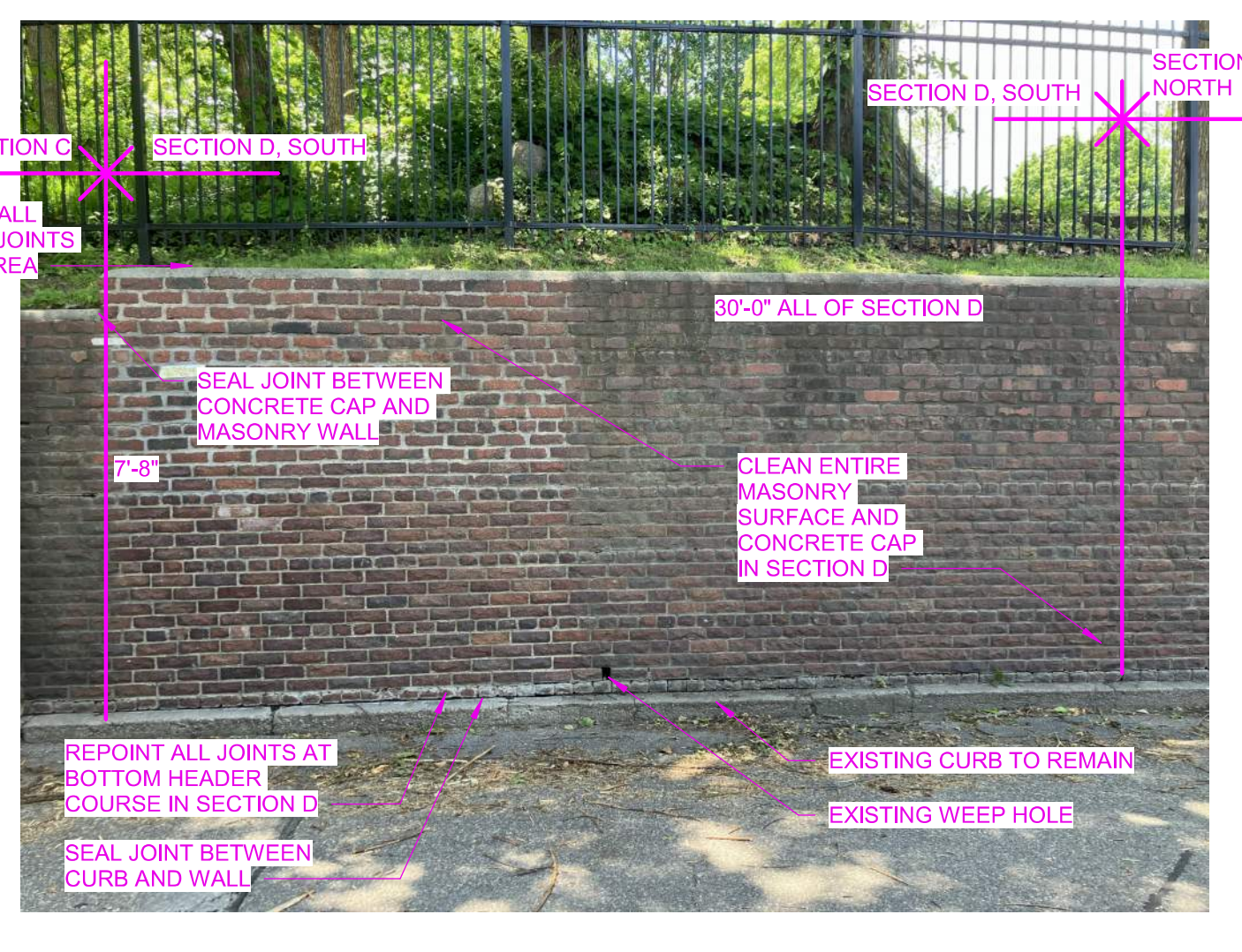
C2 SECTION A NORTH SECTION A NORTH - 91 SQ. FT.
NOT TO SCALE



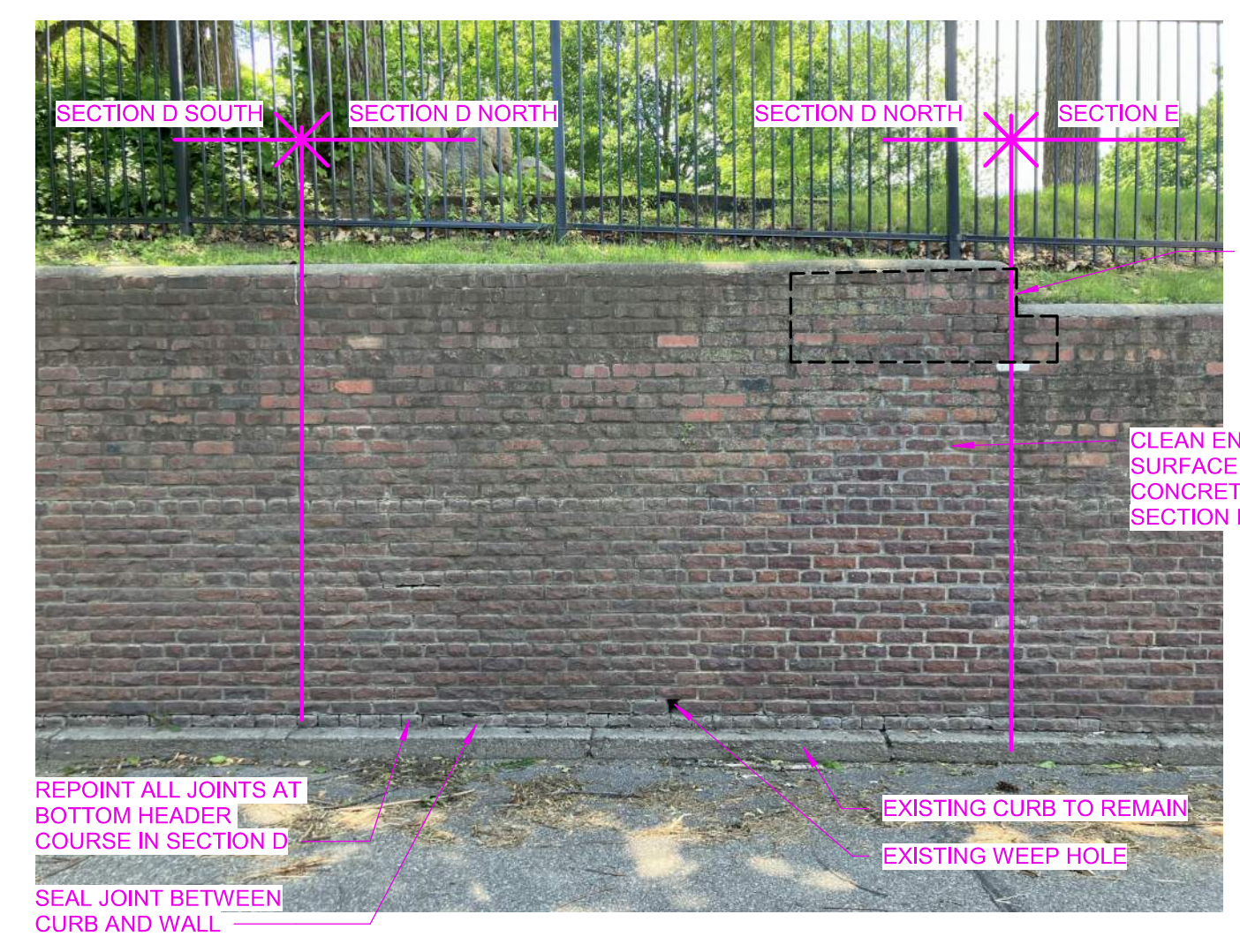
D2 SECTION B SECTION B - 146 SQ. FT.
NOT TO SCALE



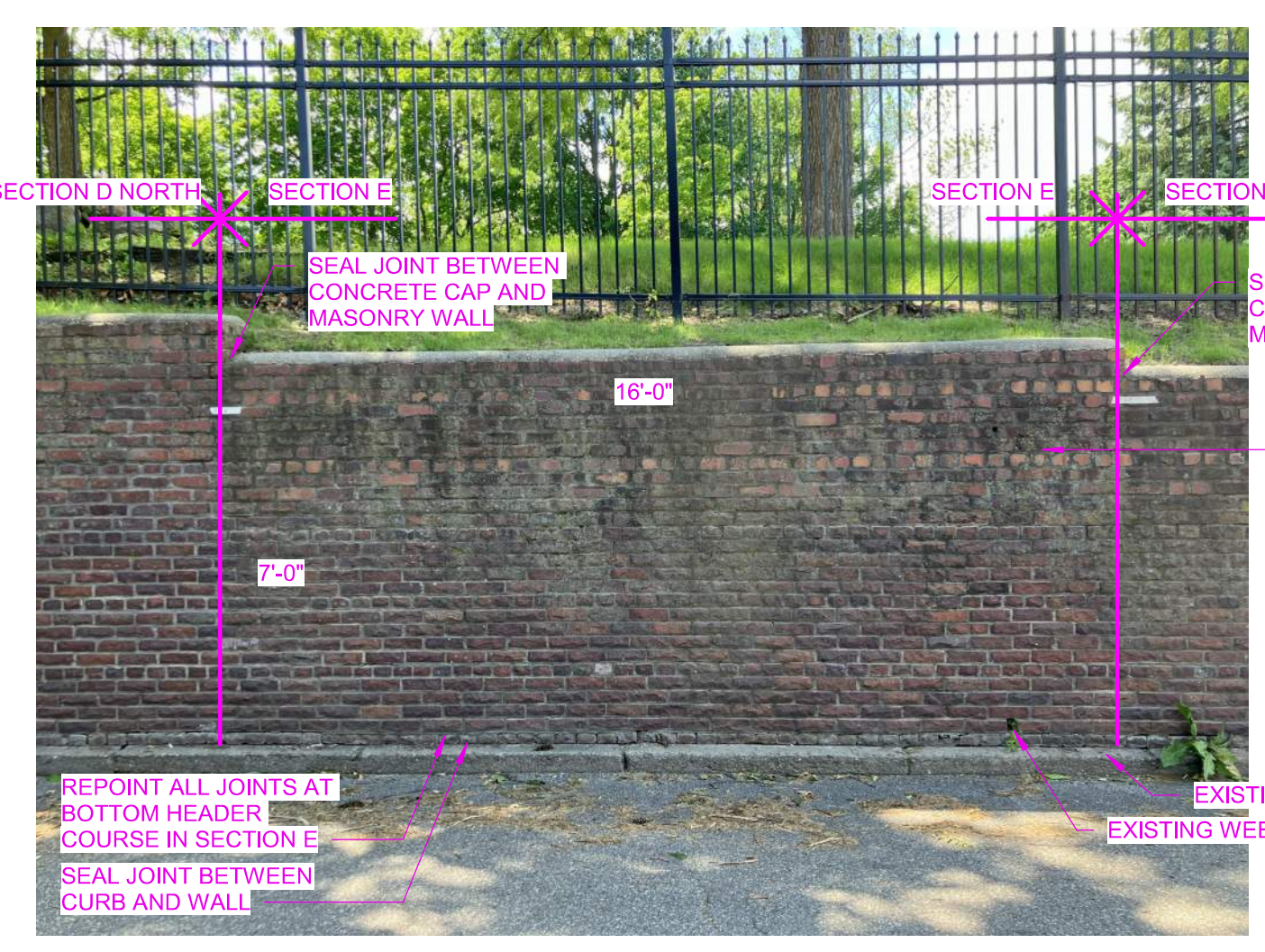
A3 SECTION C SECTION C - 120 SQ. FT.
NOT TO SCALE



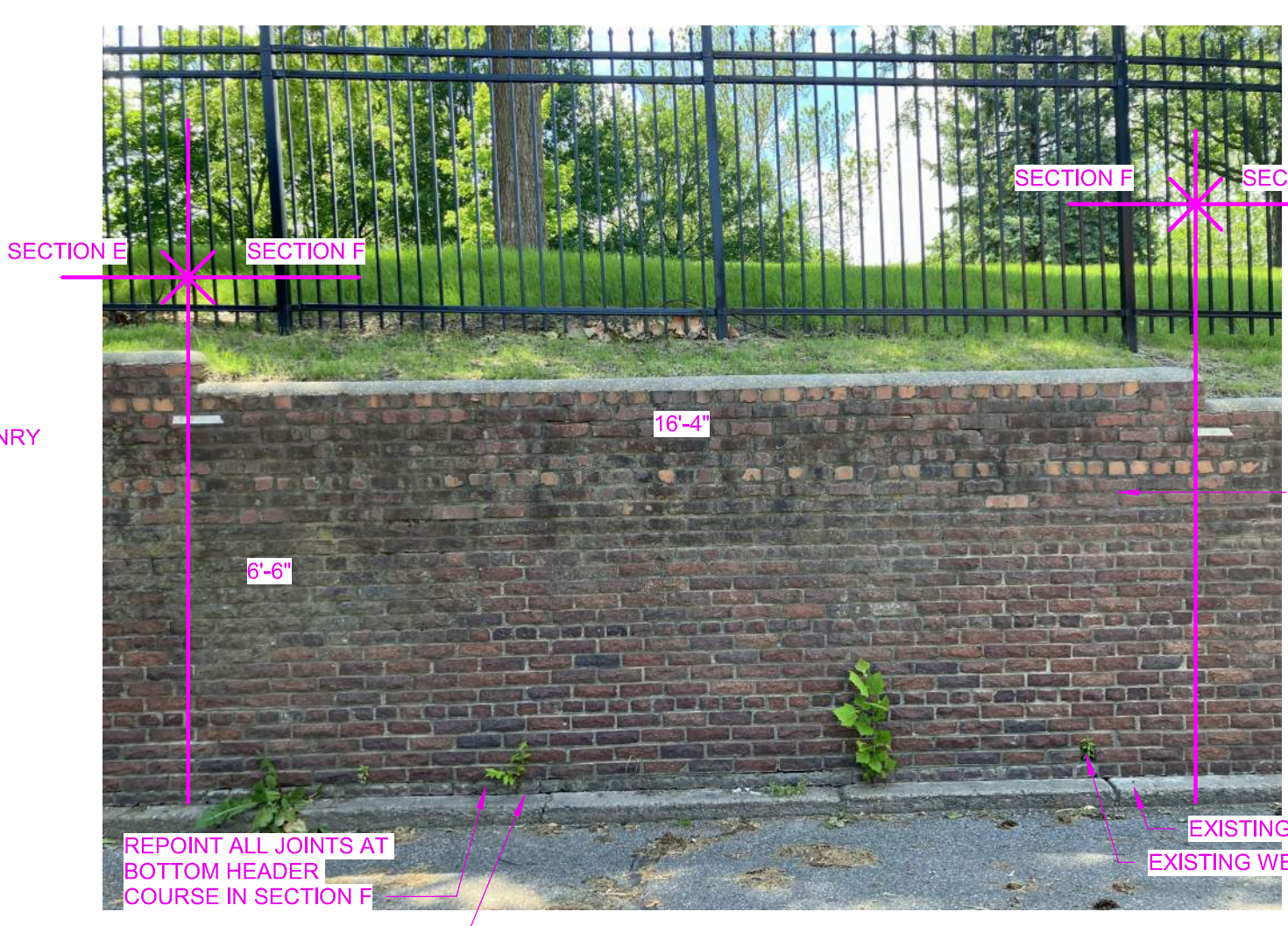
C3 SECTION D SOUTH SECTION D - 230 SQ. FT.
NOT TO SCALE



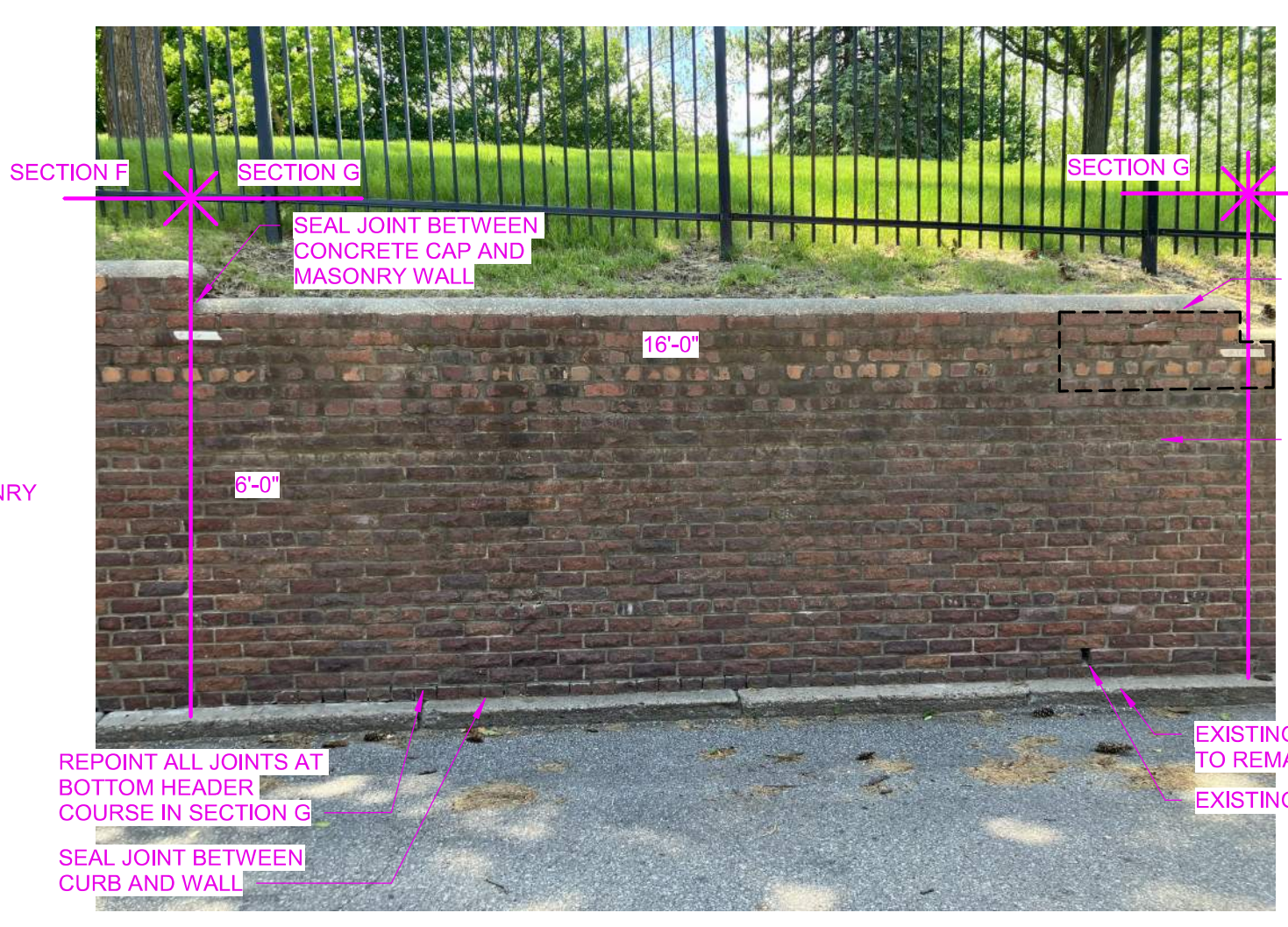
D3 SECTION D NORTH SECTION D - 230 SQ. FT.
NOT TO SCALE



A4 SECTION E SECTION E - 112 SQ. FT.
NOT TO SCALE



C4 SECTION F SECTION F - 107 SQ. FT.
NOT TO SCALE



D4 SECTION G SECTION G - 96 SQ. FT.
NOT TO SCALE

Autodesk Revit 2024
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