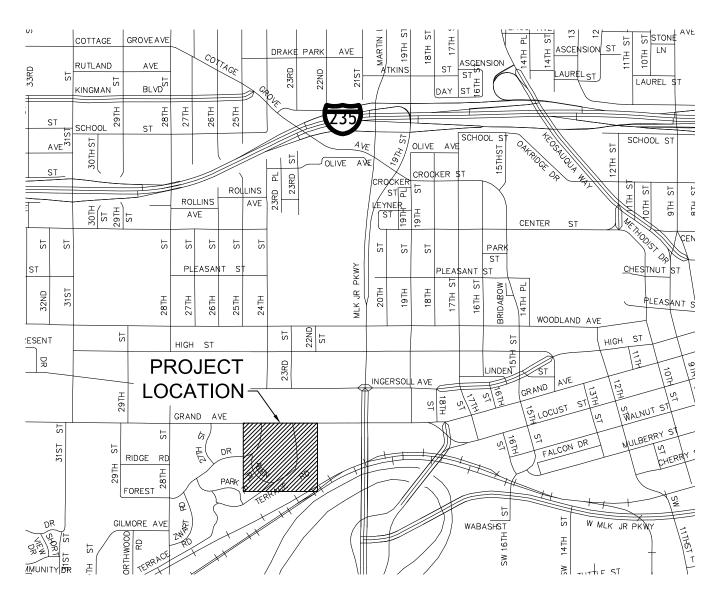
# DAS TH TERRACE HILL RD RETAINING WALL REPAIRS **DAS PROJECT NO: 9373.00**

**TERRACE HILL** 2300 GRAND AVE DES MOINES, IA 50312



# VICINITY MAP NTS

# **GENERAL NOTES**

- 1. 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).
- 2. 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.
- 3. 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.
- 4. 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.
- 5. CONTRACTOR SHALL VERIFY AND COORDINATE WITH OWNER TO LOCATE ALL PRIVATE UTILITIES WHICH WILL BE IMPACTED BY CONSTRUCTION.
- 6. THE MEANS OF THE WORK AND THE SAFETY OF THE CONTRACTOR'S EMPLOYEES ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
- 7. NO WORK SHALL BE PERFORMED BEYOND THE PROJECT LIMITS WITHOUT PRIOR AUTHORIZATION FROM THE OWNER'S REPRESENTATIVE.
- 8. 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.
- 9. PROTECT EXISTING UTILITIES AND STRUCTURES TO REMAIN DURING CONSTRUCTION.
- 10. MAINTAIN POSITIVE DRAINAGE ON THE SITE THROUGHOUT THE PROJECT DURATION.

Α

11. SITE CLEANUP SHALL BE PERFORMED ON A DAILY BASIS. DRIVES, ROADWAYS, ETC. SHALL BE KEPT CLEAN AT ALL TIMES.



# **PROJECT MAP**

- 12. ALL OPEN EXCAVATIONS SHALL BE PROTECTED.
- 13. CONTROL DUST SPREADING FROM ALL WORK AND STAGING AREAS.
- REMAIN AT NO ADDITIONAL EXPENSE TO THE OWNER.
- PAID FOR.
- 17. ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY/COUNTY/STATE REGULATIONS/CODES AND OSHA STANDARDS.
- OF THE PROJECT AREA.
- CAUSED BY CONSTRUCTION ACTIVITIES.
- PATCHING.

	E		F			U Z				
						NEER				
									00	6 COM
	C001	GENERAL NOTES							IITE 10	5026 ТЕRY
						~			√, su	OWA -HAT
						CTL			I PKW	NES, I SHIVE
	C501	CONSTRUCTION DETAILS		1					TOWN	04
	A100					U U			25 WES <sup>-</sup>	EST DES 5.223.81
	A101					∢			41	51 51
	A102	PHOTOGRAPHS OF DETAILS								
	S000	STRUCTURAL GENERAL INFORMATION								
					D Z					
	FORMATI				Z					
STRUCTURAL ENGINEER STRUCTURAL ENGINEER STRUCTURA	COM COM TE 100	STATE DESIGN AND CONSTRUC ATTN: JAMES TROWER JAMES.TROWER@IOWA.GOV 109 SE 13TH STREET DES MOINES, IOWA 50319		2	RD R				ATIVE SERVICES	50312
STRUCTURAL ENGINEER STRUCTURAL ENGINEER STRUCTURA	N MANAGER				<b>ZAC</b>	S	)		<b>AINISTR</b>	NES, IA 5
	ОМ	2300 GRAND AVE				Alf			JF ADN	
ALL'S'SHEETS ALL'S'SHEETS ALL'S'SHEETS ALL'S'SHEETS ARCHITECT		CHRISTOPHER RAYMOND MARVIN	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. CHILS BAUCY 7-10-2024 Signature: Date Printed or typed name: CHRISTOPHER R. MARVIN License Number: P27417 My License Renewal Date is: DECEMBER 31, 2025	3	T DAS T	MALL				
ALLI AND AT ACT ACT ACT ACT ACT ACT ACT		******//OWA	ALL 'S' SHEETS							
ED THE FEES BIDDING. CUEUE STORY OF ARCHING PARE CT 0.3601 PHILLP J. PARCTT 0.3601 PHILLP J. PARCTT 0.3601 PHILLP J. PARCTT 0.3601 PHILLP J. PARCTT 0.3601 PARE SPEETS ON DURING NO. COVERED BY THIS SEAL: ALL 'A SHEETS ON DURING COVERED BY THIS SEAL: ALL 'C SHEETS 'C ON DURING COVERED BY THIS SEAL: ALL 'C SHEETS 'C ON DURING COVERED BY THIS SEAL: ALL 'C SHEETS 'C ON DURING COVERED BY THIS SEAL: ALL 'C SHEETS CONDUCTION COVERED BY THIS SEAL: ALL 'C	FIC CONTROL DITHE CITY	<u>ARCHITECT</u>			BDD	CRB		1/2024	02241	<u> </u>
ALLL A'S SHEETS OR DIVISIONS COVERED BY THIS SEAL: ALL C'S SHEETS OR DIVISIONS COVERED BY THIS SEAL: ALL C	ED ON ED THE FEES	PARROTT	BELOW WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE I AWS OF THE STATE OF LOWA.				CONSTRUC	02/0	21422	
AND ET ROF CIVIL ENGINEER CIVIL ENGINEERS CIVIL ENGINEERS COODO	ALL	/OWA	PAGES, SHEETS OR DIVISIONS COVERED BY THIS SEAL:		DRAWN BY			ISSUE DATE		FIELD BOOK
ROF BELOW WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF IOWAA General Control of the state of Iowaa CHRISTOPHER BAUER 19737 INV License Renewal Date is: DECEMBER 31, 2025 PAGES, SHEETS OR DIVISIONS COVERED BY THIS SEAL: ALL 'C' SHEETS	AND	<u>CIVIL ENGINE</u>				<u> </u>				
	ROF	CHRISTOPHER ROBERT BAUER 19737	BELOW WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE I AWS OF THE STATE OF IOWA	4	OVER SHE					
	E					С	;0	0	0	

14. 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.

15. REPAIR OR REPLACE DAMAGED FACILITIES (WALLS, PAVEMENT, UTILITIES, FENCES, ETC.) TO

16. 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

18. 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

19. CONTRACTOR TO REPAIR AND REPLACE ANY DAMAGE TO EXISTING ROADS AND SIDEWALKS

20. 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

С

- 21. CONTRACTOR SHALL PROVIDE ALL LAYOUT AND STAKING REQUIRED TO COMPLET PROJECT. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ACCURACY AND REEST. SURVEY CONTROL POINTS AS REQUIRED FOR CONSTRUCTION.
- 22. CONTRACTOR IS RESPONSIBLE FOR CITY OF DES MOINES RIGHT-OF-WAY PERMIT WILL BE REQUIRED FOR THIS PROJECT. CONTRACTOR SHALL PREPARE A TRAFFIC PLAN ACCORDING TO THEIR PROPOSED MEANS AND METHODS AND PROVIDE TO AS PART OF THE RIGHT-OF-WAY PERMITTING PROCESS. CONTRACTOR IS RESPON ALL PERMITTING FEES WHICH SHALL INCLUDE ROW PERMIT FEES THAT ARE BASE PROJECT DURATION. FOR REFERENCE ONLY THE CITY PRELIMINARILY ESTIMATED AT \$45 PER WEEK WHICH SHOULD BE VERIFIED BY THE CONTRACTORS DURING BI
  - REMOVE SOUTH PORTION OF RETAINING WALL AND
  - CONSTRUCT NEW CONCRETE AND MASONRY RETAINING WAL SALVAGE BRICK FROM REMOVED WALL FOR REPAIRS TO EXISTING RETAINING AND 150 BRICKS IN GOOD CONDITION A 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 **TERRACE HILL**

D

# CONTACT INI

## ENGINEER SHIVE-HATTERY, INC. ATTN: CHRIS BAUER OR CHF CBAUER@SHIVE-HATTERY. CMARVIN@SHIVE-HATTERY 4125 WESTOWN PKWY, SUIT WEST DES MOINES, IOWA 50 PHONE: (515) 223-8104

# CONSTRUCTION

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

		A B	
		TRAFFIC AND PEDESTRIAN CONTROL NOTES	GRA
		1. CONTRACTOR MUST MAINTAIN ACCESS TO ADJACENT RESIDENCES AND BUSSINESSES THROUGHOUT CONSTRUCTION.	1. MAT OTHEF
		2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTROL VEHICULAR AND PEDESTRIAN TRAFFIC DURING CONSTRUCTION AND	2. MAII
		PROVIDE ADEQUATE TRAFFIC AND PEDESTRIAN CONTROL AND SIGNAGE ACCORDING TO CITY OF DES MOINES AND MUTCD STANDARDS. AT A MINIMUM, CONTRACTOR TO PROVIDE TYPE III BARRICADES AT EACH END OF CLOSED STREETS AND LANES AND PROVIDE TRAFFIC BARRIERS OR FENCING ALONG PORTIONS OF CLOSED STREETS OR LANES. CONTRACTOR SHALL	3. ALL
		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.	4. KEE
	1	3. CONTRACTOR TO INSTALL AND MAINTAIN GREEN CONSTRUCTION FENCE AND TEMPORARY CHAINLINK FENCE AROUND ALL AREAS OF ACTIVE CONSTRUCTION OUTSIDE OF SECURE PERIMETER FENCE. CONTRACTOR SHALL ASSUME PEDESTRIAN TRAFFIC WILL BE IN THE AREA THROUGHOUT THE PROJECT DURATION.	ADJAC 5. DO I RESUN
		4. PERIMETER SECURITY FENCE MUST BE MAINTAINED AT ALL TIMES - OWNER TO REMOVE AND REPLACE EXISTING FENCING AND INSTALL TEMPORARY FENCE AS REQUIRED BY CONSTRUCTION - OWNER TO REMOVE AND REPLACE MOTION DETECTION SYSTEM ON FENCING - COORDINATE REMOVAL AND REPLACEMENT SCHEDULE WITH OWNER. SEE DEMOLITION PLAN FOR APPROXIMATE LOCATION OF FENCE ANTICIPATED TO BE IMPACTED BY CONSTRUCTION. LOCATION AND EXTENT OF IMPACTS SHALL BE COORDINATED WITH THE OWNER BY THE CONTRACTOR BASED ON MEANS AND METHODS.	SPECI 6. MAII MATEF MATEF
		5. OWNER TO REMOVE AND REINSTALL THE EXISTING MOTION DETECTION SYSTEM ON THE PERIMETER FENCE. CONTRACTOR TO COORDINATE THE MOTION DETECTION SYSTEM REMOVAL SCHEDULE WITH THE CM AND OWNER.	7. PLA 8. USE
		EROSION CONTROL NOTES	9. IN T
-		1. AN NPDES PERMIT WILL NOT BE REQUIRED FOR THE PROJECT AS IT WILL HAVE A TOTAL DISTURBED AREA OF LESS THAN ONE	10. PL/
		ACRE.	11. CO
		2. USE ALL AVAILABLE MEANS TO MINIMIZE THE AMOUNT OF SOIL EROSION CAUSED BY THE WORK OF THE PROJECT. THIS INCLUDES RESPONSIBILITY FOR MAINTENANCE OF ALL SOIL EROSION CONTROL DEVICES. REPAIRS TO SOIL EROSION CONTROL DEVICES SHALL BE COMPLETED WITHIN A MAXIMUM OF 2 DAYS FROM IDENTIFIED DEFICIENCIES.	
		3. CONTRACTOR SHALL STILL COMPLY WITH APPLICABLE IOWA DNR, US EPA AND CITY OF DES MOINES REGULATIONS DEALING WITH STORMWATER RUNOFF AND EROSION CONTROL.	1. ( 2.
		4. PROVIDE CONCRETE WASHOUT FACILITIES AS NEEDED.	Z. VEHIC CHAIN
	2	DEMOLITION NOTES	
		1. REMOVAL REQUIREMENTS SHOWN ON THE PLANS SHOULD BE CONSIDERED MINIMUM REMOVAL AND REPLACEMENT REQUIREMENTS. CONTRACTORS SHALL ADJUST REMOVAL LIMITS AND DIMENSIONS AS REQUIRED BY CONSTRUCTION MEANS AND METHODS AND ACTUAL SITE CONDITIONS. CONTRACTORS SHOULD FACTOR ADDITIONAL ANTICIPATED REMOVAL AND REPLACEMENT REQUIREMENTS INTO THEIR BIDS AS ADDITIONAL COMPENSATION REQUESTS FOR ADJUSTED OR EXPANDED REMOVAL LIMITS WILL NOT BE APPROVED.	
		2. CONTRACTOR SHALL REPLACE AT NO COST TO THE OWNER ALL STREETS, DRIVES, SIDEWALKS, CURB AND GUTTER, SIGNS, PAVEMENT MARKINGS, LIGHTS, FENCES AND ALL OTHER SURFACE STRUCTURES NOT SCHEDULED TO BE REMOVED DURING THE COURSE OF THE WORK THAT ARE DAMAGED BY THE CONTRACTOR.	
-		3. WHERE A SECTION OF PAVEMENT, CURB AND GUTTER, OR SIDEWALK IS CUT OR OTHERWISE DAMAGED BY THE CONTRACTOR, THE ENTIRE SECTION SHALL BE REMOVED AND REPLACED. PAVEMENT, CURBS, GUTTERS, AND SIDEWALKS SHALL BE REMOVED TO THE NEAREST JOINT A MINIMUM OF TWO FEET BEYOND THE EDGE OF ALL EXCAVATIONS. CONTRACTOR SHALL DOCUMENT (OR PHOTO) ALL CRACKED PCC PAVEMENT OR DAMAGED HMA PAVEMENT PRIOR TO CONSTRUCTION. IF NEW CRACKS IN PCC PAVEMENT DEVELOP OR HMA PAVEMENT IS DAMAGED DUE TO THE CONSTRUCTION TRAFFIC (EXTENDS BEYOND CONSTRUCTION LIMITS), CONTRACTOR SHALL REPLACE DAMAGED AREA AT NO ADDITIONAL COST TO OWNER.	SPE THE M SITE W
		4. ALL LANDSCAPING INCLUDING TREES, SHRUBS, PERENNIALS NOT CALLED OUT TO BE REMOVED OR APPROVED FOR REMOVAL BY CONSTRUCTION MANAGER SHALL BE PROTECTED AND REPLACED AT NO COST TO THE OWNER IF DAMAGED DURING	ALL ST MOINE
		CONSTRUCTION. EXCAVATION NOTES	A. ST CONCE
		1. STRIP, STOCKPILE, AND RESPREAD A MINIMUM OF 6" OF TOPSOIL IN ALL SOD AREAS DISTURBED BY CONSTRUCTION.	SUDAS WITH 1
	3	DISTURBED AREAS SHALL BE LEFT IN SMOOTH CONDITION READY FOR FINAL SEEDBED PREPARATION. GRADE ALL DISTURBED ARES TO DRAIN AS PONDING OF WATER WILL NOT BE ACCEPTABLE.	HOT M CITY C
		2. CONTRACTOR IS RESPONSIBLE FOR ALL TRENCH AND FILL SETTLEMENT FOR THE PROJECT'S ONE YEAR WARRANTY PERIOD. CONTRACTOR SHALL PROVIDE ADDITIONAL FILL MATERIAL AND IS RESPONSIBLE FOR RESEEDING OF ALL SETTLEMENT AREAS AFTER SITE RESTORATION HAS BEEN COMPLETED.	TESTIN PER W COORI
		UTILITY NOTES 1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH IOWA SUDAS STANDARD SPECIFICATIONS UNLESS OTHERWISE NOTED	PROVI B. IS
		ON THE DRAWINGS.	CLOSE C. JC
		2. ALL OPEN EXCAVATIONS SHALL BE PROTECTED WITH SAFETY FENCE, BARRIERS OR BARRICADES IN ACCORDANCE WITH OSHA.	PAVIN ROD.
-		PAVEMENT GENERAL NOTES	D. PA PAVING
		1. ALL STREET PAVEMENT FLATWORK AND CURB CONSTRUCTION SHALL MEET SUDAS SPECIFICATIONS AND CITY OF DES MOINES SUPPLEMENTAL SPECIFICATIONS, CURRENT VERSIONS. ALL PROPOSED PAVEMENT PATCHES AND REPLACEMENT SHOWN ON PLANS ARE APPROXIMATE AND SHOULD BE CONSIDERED MINIMUM REMOVAL EXTENTS. EXTEND AND ADJUST PAVEMENT PATCHES AS REQUIRED BY CONSTRUCTION WITH PRIOR APPROVAL BY OWNER'S REPRESENTATIVE.	BY ELE E. DE REMO\ TO A M
2		2. ALL SLOPES IN PAVEMENT SHALL BE UNIFORM TO AVOID PONDING. ANY PONDING ON PAVEMENT PATCHES OR ADJACENT TO PATCHES WILL BE CONSIDERED UNACCEPTABLE AND SHALL BE REPLACED. IT IS THE CONTRACTORS RESPONSIBILITY TO IDENTIFY AREAS OF POTENTIAL PONDING EVEN IF PROPOSED GRADES ARE SHOWN ON THE DRAWINGS.	LOWEF MATEF DENSI SAWCI
		3. SALVAGE ALL SIGNS WITHIN THE CONSTRUCTION LIMITS AND REINSTALL IN THE SAME LOCATION AND CONDITION AFTER CONSTRUCTION. ANY SIGNS OR POLES DAMAGED DURING THE COURSE OF WORK TO BE REMOVED AND REPLACED AT NO ADDITIONAL COST TO THE OWNER.	CONST
	4	4. USE TYPE "A" COMPACTION, ACCORDING TO SUDAS STANDARDS AND AS REQUIRED BY THE CITY OF DES MOINES, ON ALL STREET SUBGRADE AND SUBBASE.	
ı		SURFACE RESTORATION NOTES	
13 PM		1. ALL DISTURBED AREAS NOT PAVED ON THE SITE SHALL RECEIVE 6" TOPSOIL. SCARIFY AREAS TO RECEIVE TOPSOIL TO A MINIMUM DEPTH OF 4". REMOVE ALL STONES, WOOD AND OTHER DEBRIS LARGER THAN 2" FROM AREAS TO RECEIVE TOPSOIL. DO NOT COMPACT TOPSOIL.	
rinted: 7/11/2024 3:36:13 PM		2. ALL DISTURBED AREAS NOT PAVED ON THE SITE SHALL BE SODDED.	

Α

C	D	

# ADING NOTES

TCH EXISTING GRADES FOR ALL PAVEMENT REPLACEMENT AND OTHER AREAS DISTURBED BY CONSTRUCTION UNLESS RWISE NOTED.

INTAIN POSITIVE DRAINAGE ON THE SITE THROUGHOUT THE PROJECT DURATION.

. EXCESS EXCAVATED SOIL AND GRANULAR MATERIAL SHALL BE PROPERLY DISPOSED OF OFF SITE BY CONTRACTOR.

EP ADJACENT STREETS FREE FROM SOIL AND DEBRIS GENERATED BY THE PROJECT. CLEAN SOIL AND DEBRIS FROM THE CENT STREETS ON A DAILY BASIS.

NOT PLACE, SPREAD, OR COMPACT ANY FILL MATERIAL DURING UNFAVORABLE WEATHER CONDITIONS AND DO NOT ME COMPACTION OPERATIONS UNTIL MOISTURE CONTENT AND DENSITY OF IN-PLACE FILL MATERIAL ARE WITHIN IFIED LIMITS.

INTAIN OPTIMUM MOISTURE CONTENT OF FILL MATERIALS TO ATTAIN REQUIRED COMPACTION DENSITY. PLACE FILL RIAL OF LOW PLASTICITY COHESIVE SOILS WITHIN -2% TO +3% OF OPTIMUM MOISTURE CONTENT. FOR GRANULAR RIAL, THE ACCEPTABLE RANGE IS -3% TO +3% OF OPTIMUM MOISTURE CONTENT.

ACE SOIL FILL MATERIAL IN MAXIMUM 6" LOOSE LIFTS, COMPACTED TO 95% STANDARD PROCTOR DENSITY PER ASTM D698.

E TYPE "A" COMPACTION ON SUBGRADE AND SUBBASE PER IOWA DOT STANDARD SPECIFICATIONS.

THE PAVING AREAS, SCARIFY AND RECOMPACT SUBGRADE TO 95% STANDARD PROCTOR DENSITY PER ASTM D698.

ACE ANY GRANULAR MATERIAL BENEATH PAVING COMPACTED ACCORDING TO IOWA DOT SPECIFICATIONS.

DORDINATE ALL PROPOSED SOIL STOCKPILE LOCATIONS WITH FACILITY AND CONSTRUCTION MANAGER.

# NTRACTOR STAGING

COORDINATE ALL REQUIRED STAGING AREAS WITH FACILITY AND CONSTRUCTION MANAGER.

THE WEST HALF OF THE EXISTING PARKING LOT LOCATED ALONG GRAND AVENUE MAY BE USED FOR CONSTRUCTION CLE PARKING AND MATERIAL STORAGE. ALL MATERIAL STORAGE LOCATIONS SHOULD BE FENCED OFF WITH TEMPORARY NLINK FENCING AND KEPT CLEAN AND ORGANIZED.

# CIFICATIONS

10ST RECENT EDITION OF THE IOWA STATEWIDE URBAN DESIGN AND SPECIFICATIONS (SUDAS) SHALL APPLY TO ALL NORK PERFORMED ON THIS PROJECT EXCEPT AS MODIFIED HEREIN.

TREET PAVEMENT FLATWORK AND CURB CONSTRUCTION SHALL MEET SUDAS SPECIFICATIONS AND CITY OF DES ES SUPPLEMENTAL SPECIFICATIONS, CURRENT VERSIONS.

TREET PAVING:

CRETE MATERIALS AND MIXING FOR ALL CONCRETE WORK, UNLESS OTHERWISE SPECIFIED, SHALL CONFORM TO S SPECIFICATIONS AND CITY OF DES MOINES SUPPLEMENTAL SPECIFICATIONS FOR AIR-ENTRAINED TYPE C-4 MIX TYPE I CEMENT

/IX ASPHALT (HMA) PAVEMENT MATERIALS AND INSTALLATION SHALL CONFORM TO SUDAS SPECIFICATIONS AND OF DES MOINES SUPPLEMENTAL SPECIFICATIONS FOR STREET PATCHING.

ING - ONE SET OF TEST CYLINDERS REQUIRED FOR EACH 100 C.Y. OR PORTION THEREOF, OF CONCRETE POURED VORK LOCATION. CONCRETE AND HMA TESTING TO BE DONE AND PAID FOR BY OWNER. CONTRACTOR SHALL DINATE AND SCHEDULE ALL REQUIRED TESTING AND GEOTECHNICAL WORK.

IDE OWNERS REPRESENTATIVE WITH CONCRETE AND HMA MIX DESIGNS FOR APPROVAL.

OLATION JOINT FILLER:

ED CELL POLYETHYLENE WITH STRIP-OFF CAP FOR SEALANT.

## OINT SEALANTS:

IG JOINTS SHALL BE SEALED FOLLOWING SUDAS SPECIFICATIONS. ALL JOINTS TO BE SEALED WITH NO BACKER

## AVING REINFORCING STEEL:

IG REINFORCEMENT SHALL BE ASTM A615 GRADE 60, AND SHALL HAVE A PROTECTIVE COATING OF EPOXY APPLIED ECTROSTATIC SPRAY METHOD IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A775.

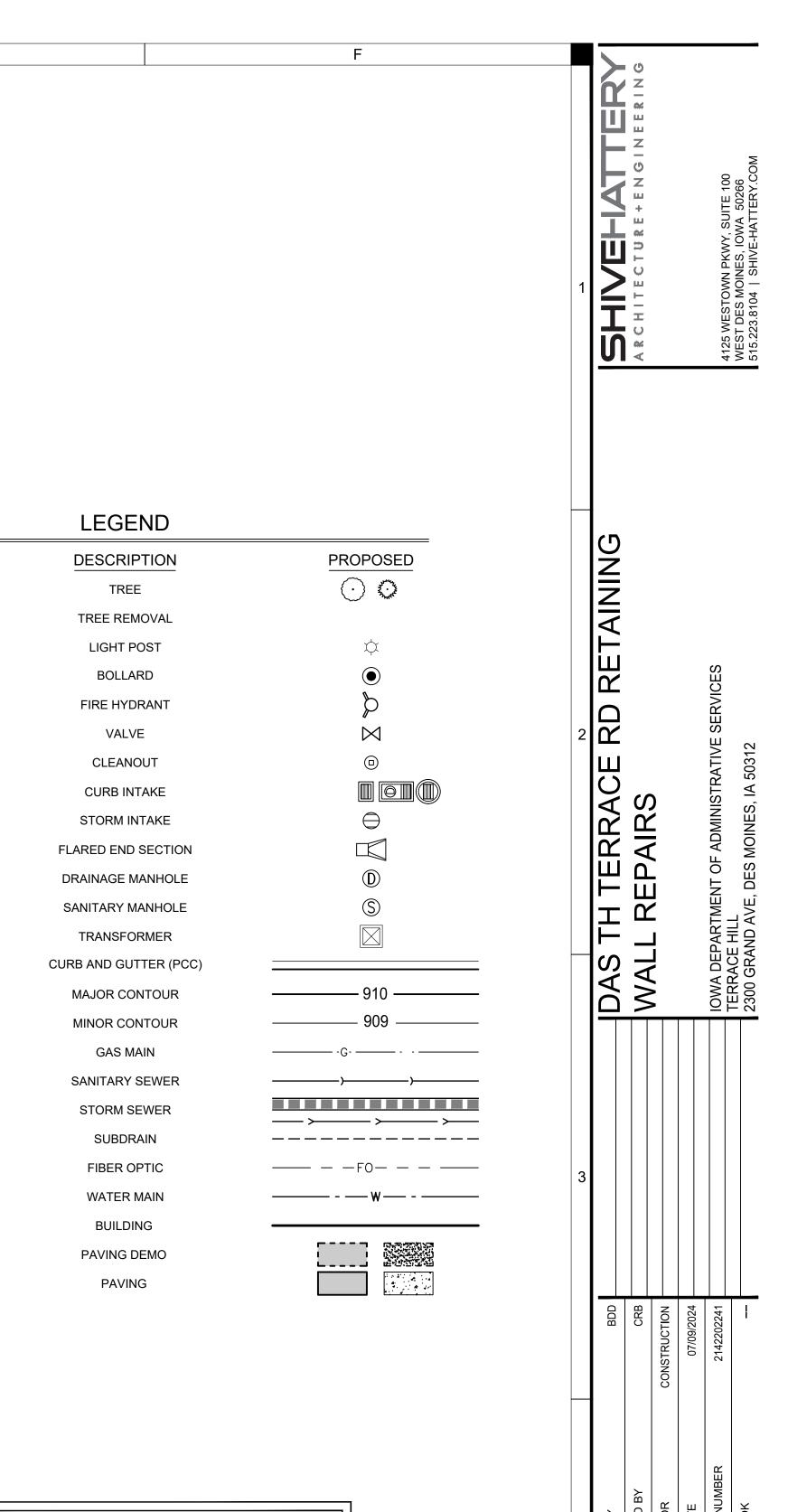
#### EMOLITION:

IVE OBSTRUCTIONS TO PERMIT INSTALLATION OF NEW CONSTRUCTION. REMOVE AND DISPOSE OF OBSTRUCTIONS MINIMUM DEPTH OF 12 INCHES BELOW EXPOSED SUBGRADE OR PROPOSED SUBGRADE ELEVATION, WHICHEVER IS R. FILL DEPRESSIONS CAUSED BY DEMOLITION OPERATIONS WITH SATISFACTORY SOIL MATERIAL. PLACE FILL RIAL IN HORIZONTAL LAYERS NOT EXCEEDING A LOOSE DEPTH OF 8 INCHES, AND COMPACT EACH LAYER TO A ITY EQUAL TO ADJACENT ORIGINAL GROUND OR SPECIFIED FILL REQUIREMENTS.

UT FULL DEPTH AND REMOVE EXISTING PAVEMENT AS SHOWN ON DRAWINGS AND REQUIRED FOR THE PROPOSED TRUCTION AND DISPOSE OF OFFSITE.

×
φ.
*
$\bowtie$
$\bigcirc$
$\square$
Ś
010
910
909
))
$\longrightarrow$
F0
W

EXISTING

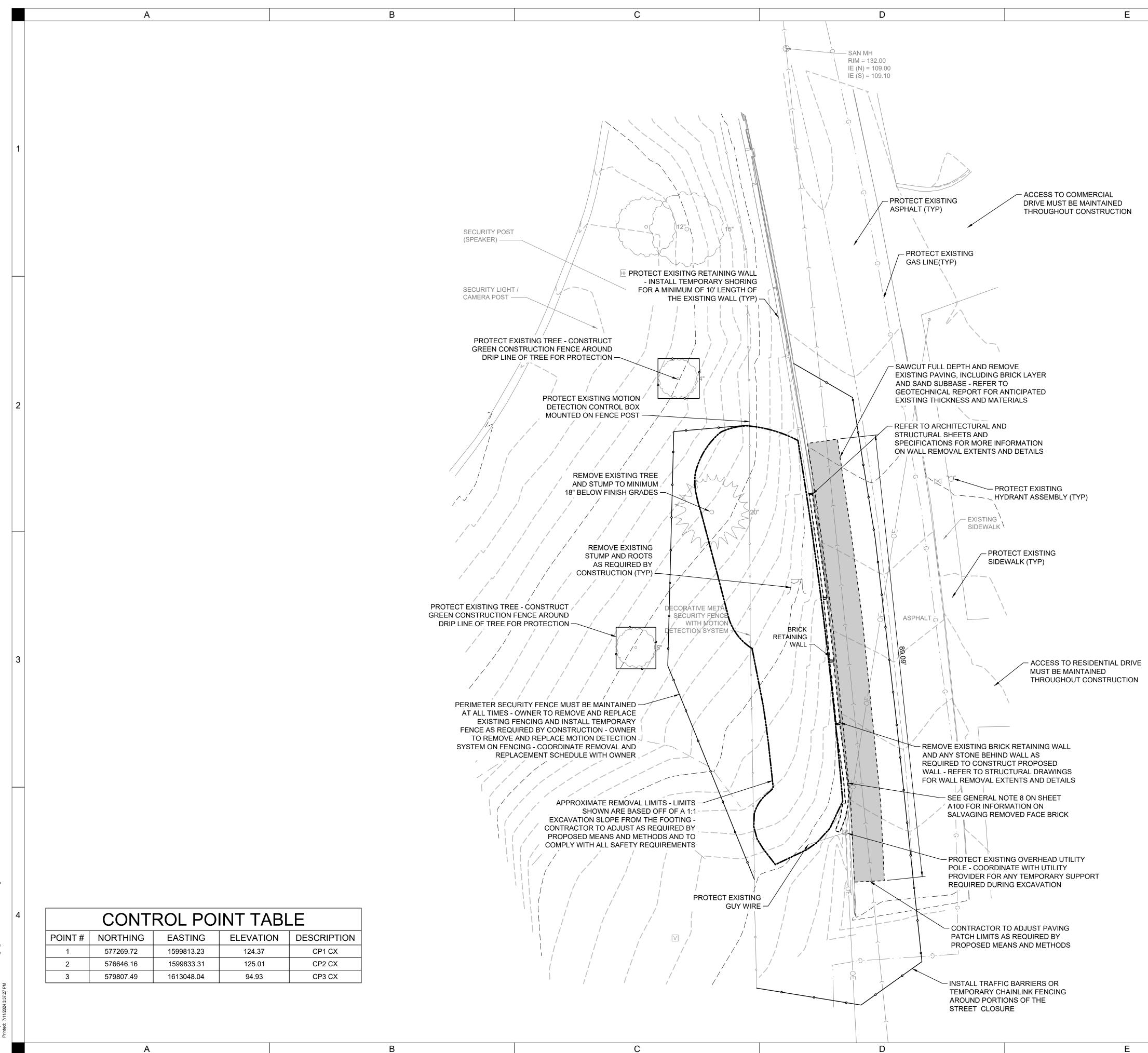


|S

C001

THE MOST RECENT EDITION OF THE IOWA STATEWIDE URBAN DESIGN SPECIFICATIONS FOR PUBLIC IMPROVEMENTS SHALL APPLY TO ALL WORK PERFORMED ON THIS PROJECT EXCEPT AS MODIFIED HEREIN.

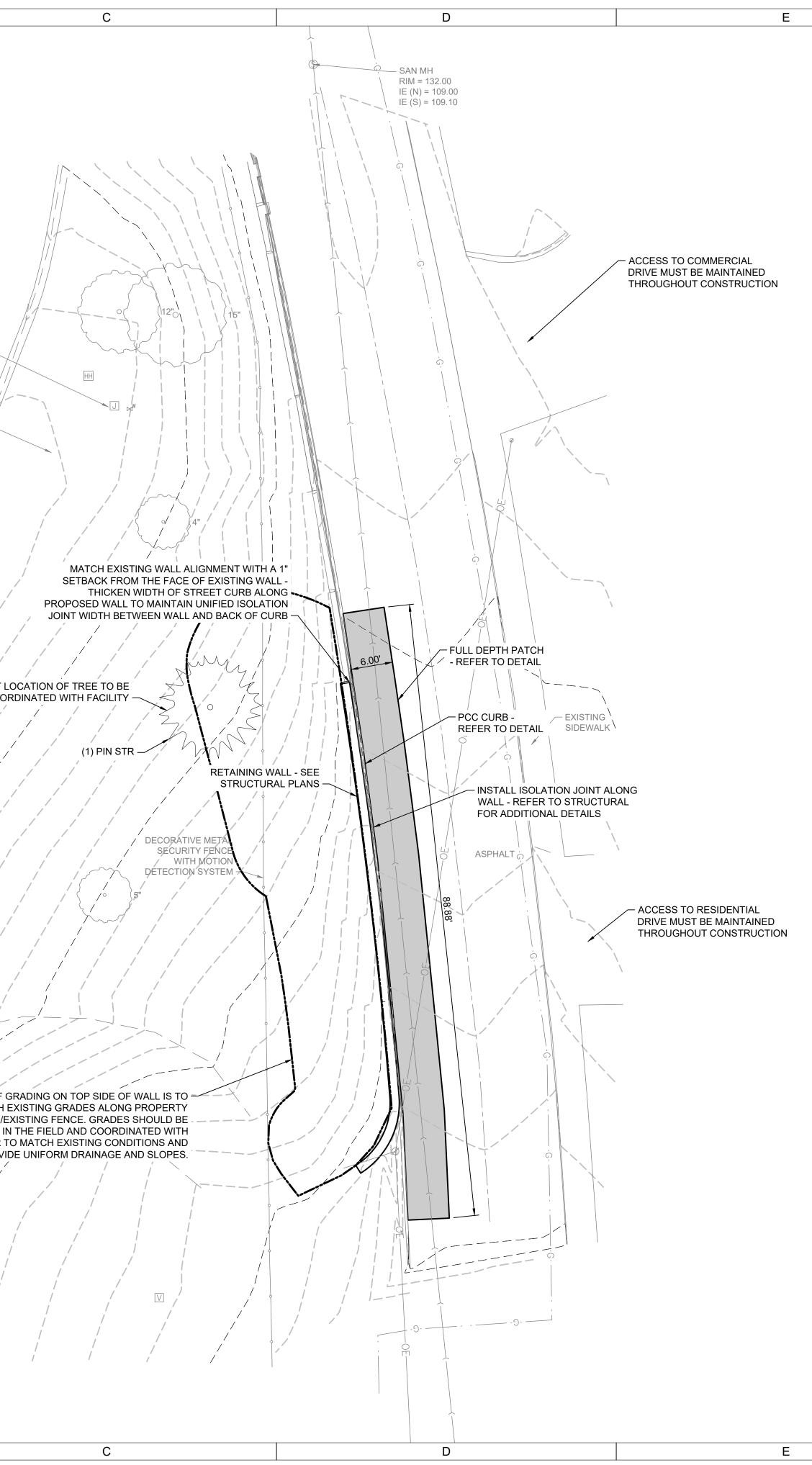
F



CP3	CX		A & CHITECTURE + ENGINEERING			4125 WESTOWN PKWY, SUITE 100	WEST DES MOINES, IOWA 50266 515.223.8104   SHIVE-HATTERY.COM
		IDAS TH TERRACE RD RETAINING				IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES	2300 GRAND AVE, DES MOINES, IA 50312
		DRAWN BY BDD	APPROVED BY CRB	ISSUED FOR CONSTRUCTION	ISSUE DATE 07/09/2024	PROJECT NUMBER 2142202241	FIELD BOOK
	NORTH		PLAN				Ĩ

		A					В		
		~		I_			۰		
	PLANT SCI								
	TREES PIN STR	QTY 1	BOTANICA Pinus Strob		COMMON NAME Eastern White Pine		ROOT 3 & B	SIZE 6' HT	
		·	·			·		·	
									SECURITY POST (SPEAKER)
_									
									SECURITY LIGHT / CAMERA POST
									kt
									EXAC
									C
_									
_									INTENT C
									MATC LIN ADJUSTE
									ENGINEE
	CO	NTRO	DL PO		BLE				
PC	NORTH	HING E	ASTING	ELEVATION		ON			
	1         577269           2         576646		599813.23 599833.31	124.37 125.01	CP1 CX CP2 CX				
	3 579807		613048.04	94.93	CP3 CX				
		A					В		
		~		1					

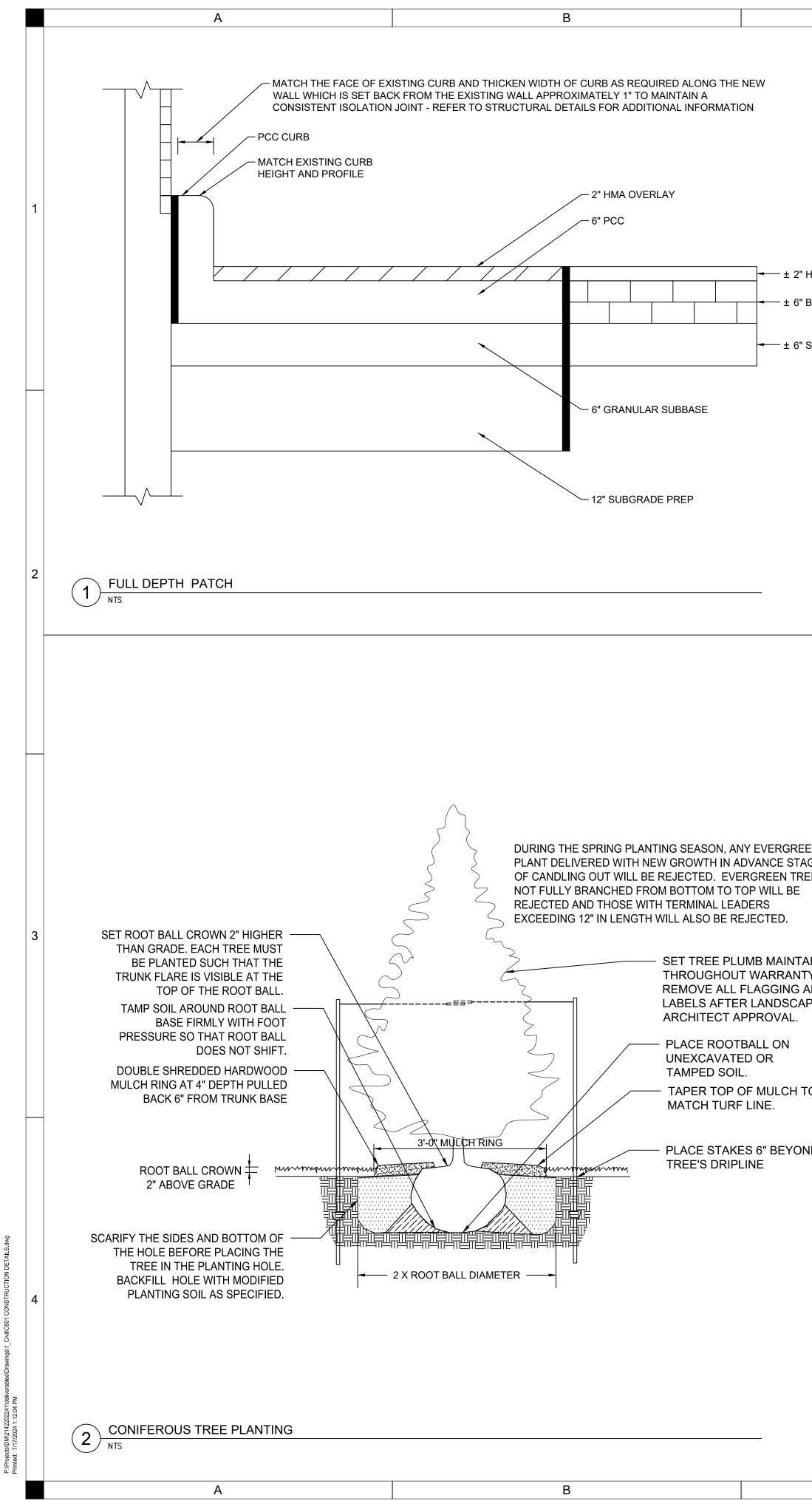
Projects\DM\214220241\deliverables\Drawings\1\_Civil\C101 SITE F tried- 7147/2004 1-03-20 DM



CP3 CX	F		<b>SHITECTURE + ENGINEERING</b>	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
			DRAWN BY     BDD       APPROVED BY     CRB       ISSUED FOR     CONSTRUCTION	ISSUE DATE 07/09/2024 PROJECT NUMBER 2142202241 FIELD BOOK
	0 5 10 SCALE IN FE	20 	4 SITE PLAN C1	01

		Α	В	
	1			
			SECURITY POST (SPEAKER) ———	
				7
				.
			SECURITY LIGHT / CAMERA POST —	
				74
				/
	2			
	-			
	3			
				INTENT OF G MATCH E
				LINE/E
				ADJUSTED IN ENGINEER T
				PROVI
				/
				/
4	4			
00 AM				
4 11:17:(				
Printed: 7/8/2024 11:17:00 AM				
Printed.				
		Α	В	
			· I	





HMA BRICK SAND			
	SODDING AND LIVE PLANTING NOTES:		
	<ol> <li>ALL SOD INSTALLATION AND RELATED WORK SHALL CONFORM TO CURRENT IOWA STATEWIDE URBAN DESIGN AND SPECIFICATIONS (SUDAS) DIVISION 9, SECTION 9020 - SODDING, UNLESS OTHERWISE NOTED.</li> </ol>	8.	ALL PLANT MATERIALS M LATEST EDITION PUBLISH
	<ol> <li>ALL PLANT INSTALLATION AND RELATED WORK SHALL CONFORM TO CURRENT IOWA STATEWIDE URBAN DESIGN AND SPECIFICATIONS (SUDAS) DIVISION 9, SECTION 9030 - PLANT MATERIAL AND PLANTING, UNLESS OTHERWISE NOTED.</li> </ol>	9.	LARGER SIZED PLANT MA THE A.S.N.S. ANY PROPOSED SUBSTIT
	3. ALL PLANTING WORK SHALL BE COORDINATED WITH THE WORK OF OTHER TRADES ON SITE.		OVERALL FORM, HEIGHT, AFTER WRITTEN APPROV
EN AGE EES	4. LOCATIONS OF ALL UTILITIES SHOWN ON THE PLANS ARE TAKEN FROM EXISTING RECORDS. THE EXACT LOCATION AND ELEVATION OF ALL UTILITIES MUST BE DETERMINED BY THE CONTRACTOR. IT SHALL BE THE DUTY OF THE CONTRACTOR TO ASCERTAIN WHETHER ANY ADDITIONAL UTILITIES OTHER THAN THOSE SHOWN ON THE PLAN MAY BE PRESENT.	10.	THE CONTRACTOR SHALL NURSERY CERTIFICATION APPROVAL PRIOR TO INS TO REJECT PLANTS THAT DELIVERY TO THE SITE.
	5. PROTECT ALL EXISTING AND NEW STRUCTURES AND UTILITY SERVICES DURING INSTALLATION OF ALL PLANT MATERIAL. IF CONFLICTS EXIST BETWEEN PROPOSED PLANTING LOCATIONS AND OTHER STRUCTURES AND UTILITIES, CONTRACTOR SHALL COORDINATE PLANTING ADJUSTMENTS WITH		WOOD MULCH SHALL BE THE CONTRACTOR SHALL
	6. CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE DUE TO OPERATIONS INSIDE AND OUTSIDE OF THE	13	GROWTH FROM PLANTING
AIN TY.	CONTRACT LIMIT LINE. ANY AREAS OUTSIDE THE LIMIT OF WORK THAT ARE DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.		PLANTING BEDS PER PLA
AND \PE	<ol> <li>ALL TREES, SHRUBS, AND PERENNIAL PLANTS ARE LISTED IN THIS PLANT SCHEDULE. IF DISCREPANCIES EXIST BETWEEN QUANTITIES SHOWN ON THE DRAWINGS AND QUANTITIES LISTED IN THE PLANT SCHEDULE, THE PLAN QUANTITIES SHALL PREVAIL.</li> </ol>		GROWING CONDITION FO FREE OF CHARGE BY COI ESTABLISHED PERIOD DE
ГО			
ND			

D

С

D

Е

Е

F			ERING				
	1	SHIVEHATT	A & CHITECTURE + ENGINEER			4125 WESTOWN PKWY. SUITE 100	WEST DES MOINES, IOWA 50266 515.223.8104   SHIVE-HATTERY.COM
NDARDS FOR NURSERY STOCK (A.S.N.S.), DN OF NURSERYMEN, WASHINGTON D.C. MAY BE USED IF THE STOCK CONFORMS TO . BE MADE WITH PLANTS OF EQUIVALENT F, COLOR, FRUIT AND CULTURE, AND ONLY T. YING PLANT CULTURE, SIZE, CONDITION, AND SECTION 9030 TO LANDSCAPE ARCHITECT FOR ANDSCAPE ARCHITECT RESERVE THE RIGHT SPECIFICATIONS AND ANSI STANDARDS UPON WULCH, PLACED TO DEPTH PER PLANS. BRIS AND MATERIALS INJURIOUS TO PLANT FILLING WITH PLANTING SOIL MIX. CUT EDGE AT THE PERIMETER OF MULCHED TERIAL TO BE IN A LIVE AND HEALTHY NTIAL COMPLETION OR SHALL BE REPLACED IE AND SPECIES IN CONFORMANCE WITH THE	2	IDAS TH TERRACE RD RETAINING				IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES	1 EKKACE HILL 2300 GRAND AVE, DES MOINES, IA 50312
		BDD	CRB	CONSTRUCTION	07/09/2024	2142202241	
		DRAWN BY	APPROVED BY	ISSUED FOR	ISSUE DATE	PROJECT NUMBER	FIELD BOOK
	4	CONSTRUCTION	DETAILS				
F			(	)5	50	1	

RIALS MUST CONFORM TO AMERICAN STAN PUBLISHED BY THE AMERICAN ASSOCIATION ANT MATERIALS OF THE SPECIES LISTED

SUBSTITUTIONS OF PLANT SPECIES SHALL HEIGHT, BRANCHING HABIT, FLOWER, LEAF APPROVAL OF THE LANDSCAPE ARCHITEC

R SHALL SUBMIT DOCUMENTATION VERIFY ICATION IN CONFORMANCE WITH SUDAS S R TO INSTALLATION. THE OWNER AND/OR I TS THAT DO NOT CONFORM TO PROJECT

ALL BE DOUBLE-SHREDDED HARDWOOD N

R SHALL REMOVE ALL CONSTRUCTION DE LANTING PITS AND BEDS PRIOR TO BACKF

R SHALL PROVIDE A MECHANICAL SPADE-PER PLAN

R SHALL GUARANTEE ALL LIVE PLANT MAT TION FOR ONE FULL YEAR AFTER SUBSTAN E BY CONTRACTOR, WITH THE SAME GRADE RIOD DESCRIBED IN SUDAS SECTION 9030.

