

ADDENDUM #1

Project Name:
DOE ISD South Powerhouse Parking Lot Repair
DAS# 9462.00
RFB 946200-01
Addendum #1
Dated: January 05, 2026

This Addendum forms a part of the bidding and contract documents. This Addendum supersedes and supplements all portions of the original bidding and contract documents dated October 31, 2025 with which it conflicts.

ACKNOWLEDGE RECEIPT OF THIS ADDENDUM IN THE SPACE PROVIDED ON THE BID FORM. FAILURE TO DO SO MAY SUBJECT THE BIDDER TO DISQUALIFICATION.

1) CLARIFICATIONS

- A. No items.

2) PLANS

- A. See attached Snyder and Associates drawings C2, C5, C8, and C9.

3) SPECIFICATIONS

- A. No items.

4) QUESTIONS AND CLARIFICATIONS

- A. I am reaching out to see if there is any parking lot lighting on this project? It looks like just repair work of the concrete and such, but just double checking. **A> There is no parking lot lighting on this project.**

5) SUBSTITUTION REQUESTS

- A. No items.

6) ATTACHMENTS

- A. Snyder & Associates drawings C2, C5, C8, and C9.

END OF ADDENDUM

LEGEND

FEATURES EXISTING

- Spot Elevation
- Contour Elevation
- Fence (Barbed, Field, Hog)
- Fence (Chain Link)
- Fence (Wood)
- Fence (Silt)
- Tree Line
- Tree Stump
- Deciduous Tree \ Shrub
- Coniferous Tree \ Shrub
- Communication
- Overhead Communication
- Fiber Optic
- Underground Electric
- Overhead Electric
- Gas Main with Size
- High Pressure Gas Main with Size
- Water Main with Size
- Sanitary Sewer with Size
- Duct Bank
- Sanitary Sewer with Size
- Sanitary Manhole
- Storm Sewer with Size
- Storm Manhole
- Single Storm Sewer Intake
- Double Storm Sewer Intake

(*) Denotes the survey quality service level for utilities

- Fire Hydrant
- Fire Hydrant on Building
- Water Main Valve
- Water Service Valve
- Well
- Utility Pole
- Guy Anchor
- Utility Pole with Light
- Utility Pole with Transformer
- Street Light
- Yard Light
- Electric Box
- Electric Transformer
- Traffic Sign
- Communication Pedestal
- Communication Manhole
- Communication Handhole
- Fiber Optic Manhole
- Fiber Optic Handhole
- Gas Valve
- Gas Manhole
- Gas Apparatus
- Fence Post or Guard Post
- Underground Storage Tank
- Above Ground Storage Tank
- Sign
- Satellite Dish
- Mailbox
- Sprinkler Head
- Irrigation Control Valve
- Test Hole Location for SUE w/ID

GENERAL NOTES

1. NOTIFY UTILITY PROVIDERS PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES AND COORDINATE WITH UTILITY PROVIDERS AS NECESSARY DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR DETERMINING EXISTENCE, EXACT LOCATION, AND DEPTH OF ALL UTILITIES. PROTECT ALL UTILITY LINES AND STRUCTURES NOT SHOWN FOR REMOVAL OR MODIFICATION. ANY DAMAGES TO UTILITY ITEMS NOT SHOWN FOR REMOVAL OR MODIFICATION SHALL BE REPAIRED TO THE UTILITY OWNER'S SPECIFICATIONS AT THE CONTRACTOR'S EXPENSE.
2. CONSTRUCTION OF ALL STREET AND UTILITY IMPROVEMENTS SHALL CONFORM TO THE IOWA STATEWIDE URBAN DESIGN AND SPECIFICATIONS (SUDAS) AND THE SOILS REPORTS PREPARED BY OTHERS.
3. LENGTH OF UTILITIES SHOWN ON PLANS ARE DIMENSIONED FROM CENTERLINE OF STRUCTURE TO CENTERLINE OF STRUCTURE.
4. ALL TRAFFIC CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). WHEN CONSTRUCTION ACTIVITIES OBSTRUCT PORTIONS OF THE ROADWAY APPROPRIATE SIGNAGE AND BARRICADES SHALL BE USED.
5. NOTIFY OWNER, ENGINEER, AND COUNCIL BLUFFS PUBLIC WORKS (FOR WORK ALONG VALLEY VIEW DRIVE) AT LEAST 48 HOURS PRIOR TO BEGINNING WORK.
6. CONSTRUCT MANHOLES AND APPURTENANCES AS WORK PROGRESSES. BACKFILL WITH SUITABLE MATERIAL AND COMPACT TO 95% MAXIMUM DENSITY.
7. IN THE EVENT OF A DISCREPANCY BETWEEN THE QUANTITY ESTIMATES AND THE DETAILED PLANS, THE DETAILED PLANS SHALL GOVERN.
8. ALL FIELD TILES ENCOUNTERED DURING CONSTRUCTION SHALL BE RECONNECTED AND NOTED ACCORDINGLY ON THE AS-BUILT DOCUMENTS.
9. DIMENSIONS, BUILDING LOCATION, UTILITIES AND GRADING OF THIS SITE ARE BASED ON AVAILABLE INFORMATION AT THE TIME OF DESIGN. DEVIATIONS MAY BE NECESSARY IN THE FIELD. ANY SUCH CHANGES OR CONFLICTS BETWEEN THIS PLAN AND FIELD CONDITIONS ARE TO BE REPORTED TO THE ARCHITECT/ENGINEER PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LAYOUT VERIFICATION OF ALL SITE IMPROVEMENTS PRIOR TO CONSTRUCTION.
10. CONTRACTOR TO LOAD AND TRANSPORT ALL MATERIALS CONSIDERED TO BE UNDESIRABLE TO BE INCORPORATED INTO THE PROJECT TO AN APPROVED OFF-SITE WASTE SITE.
11. ALL PROPOSED CONTOURS AND SPOT ELEVATIONS SHOWN ARE FINISHED GRADES AND/OR TOP OF PAVING SLAB (GUTTER), UNLESS OTHERWISE NOTED.
12. THE CONTRACTOR IS RESPONSIBLE FOR CLEANING DIRT AND DEBRIS FROM NEIGHBORING STREETS, DRIVEWAYS, AND SIDEWALKS CAUSED BY CONSTRUCTION ACTIVITIES IN A TIMELY MANNER.
13. THE ADJUSTMENT OF ANY EXISTING UTILITY APPURTENANCES TO FINAL GRADE IS CONSIDERED INCIDENTAL TO THE SITE WORK.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING EROSION CONTROL MEASURES AS NECESSARY. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR MAINTAINING ANY EXISTING EROSION CONTROL MEASURES ON SITE AT THE TIME OF CONSTRUCTION. GRADING AND SOIL EROSION CONTROL CODE REQUIREMENTS SHALL BE MET BY CONTRACTOR. A GRADING PERMIT IS REQUIRED FOR THIS PROJECT.
15. CONTRACTOR TO COORDINATE NATURAL GAS, ELECTRICAL, TELEPHONE AND ANY OTHER FRANCHISE UTILITY SERVICES WITH UTILITY SERVICE PROVIDER, CITY OF COUNCIL BLUFFS, AND THE OWNER PRIOR TO CONSTRUCTION.
16. CONTRACTOR TO VERIFY ALL UTILITY CROSSINGS AND MAINTAIN MINIMUM 18" VERTICAL AND HORIZONTAL CLEARANCE BETWEEN UTILITIES. CONTRACTOR TO COORDINATE UTILITY ROUTING TO BUILDING AND VERIFY CONNECTION LOCATIONS AND INVERTS PRIOR TO CONSTRUCTION.

PROPERTY ADDRESS

IOWA SCHOOL FOR THE DEAF
POWERHOUSE PARKING LOT
3501 HARRY LANGDON BLVD.
COUNCIL BLUFFS, IA 51503

ZONING

R-1

PARKING REQUIREMENTS

33 SPACES + 2 ADA SPACES
= 35 TOTAL SPACES PROVIDED

BID ITEMS

NO.	ITEM	UNITS	QUANTITY
1	SITE GRADING -CUT TO WASTE	CY	195
2	SAW CONCRETE - FULL DEPTH	LF	394
3	PAVEMENT REMOVAL	SY	1491
4	REMOVAL OF SIDEWALK	SY	11
5	REMOVAL OF CONCRETE STEPS	SF	40
6	REMOVAL OF FENCE, CHAIN LINK	LF	165
7	REMOVE AND REINSTALL SIGN AS PER PLAN	EA	1
8	REMOVE PIPE	LF	90
9	REMOVE HEADWALL INLET	EA	1
10	8" HDPE	LF	6
11	12" HDPE	LF	127
12	INTAKE SW-501	EA	1
13	12" X 8" HDPE TEE	EA	1
14	8" INLINE DRAIN W/ DOME GRATE	EA	1
15	12" FLARED END SECTION	EA	1
16	SUBGRADE PREPARATION, 6" DEPTH	SY	140
17	SUBGRADE PREPARATION, 12" DEPTH	SY	1358
18	PAVEMENT, PCC, 4"	SY	133
19	PAVEMENT, PCC, 6"	SY	1358
20	SIDEWALK, PCC, 4"	SY	7
21	DETECTABLE WARNING PANEL	SF	8
22	PCC WITH 4" CURB	SF	148
23	WHEEL STOPS	EA	35
24	PAVEMENT MARKINGS, PAINTED	LF	1000
25	SYMBOLS & LEGENDS, PAINTED	EA	2
26	FENCE, CHAIN LINK, 48 IN. HEIGHT	LF	165
27	FENCING, TEMPORARY CONSTRUCTION	LF	330
28	INSTALL TYPE A SIGN (R7-8)	EA	2
29	SEEDING - SUDAS TYPE 1 SEED MIX	AC	0.09
30	TURF REINFORCEMENT MATTING	SY	5
31	EROSION CONTROL FABRIC WITH 6" CRUSHED LIMESTONE	SY	45
32	INLET PROTECTION	EA	2
33	SCOUR STOP 6' X4' MAT	EA	1
34	MOBILIZATION	LS	1
STRUCTURAL SCOPE OF WORK			
35	OVERHEAD TUNNEL CONCRETE REPAIRS (REGULAR REPAIR)	SF	250
36	VERTICAL CONCRETE REPAIRS (SHALLOW REPAIR)	SF	10
37	VERTICAL PARGE COAT REPAIRS (SHALLOW REPAIR)	SF	60
38	TUNNEL MASONRY BLOCK REPAIR	SF	10
39	NEW RETAINING WALL	CY	30
40	4" SUBDRAIN WITH GRANULAR FILL	LF	180
41	DAMP PROOFING X 30"	LF	180
42	CLEAN AND PAINT EXISTING STEEL BEAMS	LF	50
43	SHORE, REMOVE AND REPLACE STEEL BEAMS	LS	1



UTILITY CONTACT INFORMATION

UTILITY CONTACT FOR MAPPING INFORMATION SHOWN AS RECEIVED FROM THE IOWA ONE CALL DESIGN REQUEST SYSTEM, TICKET NUMBER 552503015.

(BTC) BREDATA TELEPHONE CORPORATION
Company name : BREDATA TELEPHONE CORPORATION Design contact: Mike Ludwig
Phone: 7126732311
Email: mludwig@westianet.com

(CBF) COUNCIL BLUFFS WATER WORKS
Company name : COUNCIL BLUFFS WATER WORKS Design contact: Brian Cady
Phone: 7123281006
Email: bcady@cbwaterworks.com

(CBS) COUNCIL BLUFFS SEWER
Company name : COUNCIL BLUFFS SEWER
Design contact: MARTY SELL
Phone: 7123284641
Email: msell@councilbluffs-ia.gov

(COX) COX COMMUNICATIONS
Company name : COX COMMUNICATIONS
Design contact: JEREMY DIXON
Phone: 4052135142
Email: JEREMY.DIXON@COX.COM

(CLECIA) WINDSTREAM ENTERPRISE
Company name: WINDSTREAM ENTERPRISE
Design contact: CLEC LOCATE DESK
Phone: 8009413430
Email: wci.clec.locate@windstream.com

(CTLIA01) CENTURYLINK
Company name : CENTURYLINK
Design contact: SADIE HULL
Phone: 9185470147
Email: sadie.hull@lumen.com

(FCL) FASTER COMMUNICATIONS LLC
Company name : FASTER COMMUNICATIONS LLC Design contact: Sally Stanley
Phone: 6509654285
Email: sally@fastercomm.com

(M39E) MIDAMER-ELEC
Company name : MIDAMER-ELEC
Design contact: David Fitch
Phone: 7123665669
Email: dlftch@midamerican.com

(P17) BLACK HILLS ENGY COUNCIL BLUFF
Company name : BLACK HILLS ENGY COUNCIL BLUFF Design contact: Chris Dewey
Phone: 7125806028
Email: chris.dewey@blackhillscorp.com

CONTROL POINTS

IOWA REGIONAL COORDINATE SYSTEM ZONE 6
NAD83(2011)EPOCH 2010.00 IARTN DERIVED - US SURVEY FEET

- CP1 N=6955269.68 E=16476507.51 Z=1011.90
SET 1/2" REBAR WITH RED SNYDER CONTROL CAP (AS SHOWN ON SURVEY)
- CP2 N=6955508.76 E=16476531.55 Z=1004.92
SET 1/2" REBAR WITH RED SNYDER CONTROL CAP (AS SHOWN ON SURVEY)
- CP3 N=6955532.13 E=16476709.84 Z=1003.96
SET 1/2" REBAR WITH RED SNYDER CONTROL CAP (AS SHOWN ON SURVEY)
- CP4 N=6955270.01 E=16476674.68 Z=1014.42
SET 1/2" REBAR WITH RED SNYDER CONTROL CAP (AS SHOWN ON SURVEY)

BENCHMARKS

NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88 - GEOID12A)
IARTN DERIVED - US SURVEY FEET

BM500 ELEV=1007.61
ARROW HEAD ON FIRE HYDRANT

DATE OF SURVEY

MAY 12, 2025

UTILITY QUALITY SERVICE LEVELS

QUALITY LEVELS OF UTILITIES ARE SHOWN IN THE PARENTHESES WITH THE UTILITY TYPE AND WHEN APPLICABLE, SIZE. THE QUALITY LEVELS ARE BASED ON THE CI / ASCE 38-02 STANDARD.
QUALITY LEVEL (D) INFORMATION IS DERIVED FROM EXISTING UTILITY RECORDS OR ORAL RECOLLECTIONS.
QUALITY LEVEL (C) INFORMATION IS OBTAINED BY SURVEYING AND PLOTTING VISIBLE ABOVE-GROUND UTILITY FEATURES AND USING PROFESSIONAL JUDGMENT IN CORRELATING THIS INFORMATION WITH QUALITY D INFORMATION.
QUALITY LEVEL (B) INFORMATION IS OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND APPROXIMATE HORIZONTAL POSITION OF SUBSURFACE UTILITIES.
QUALITY LEVEL (A) IS HORIZONTAL AND VERTICAL POSITION OF UNDERGROUND UTILITIES OBTAINED BY ACTUAL EXPOSURE OR VERIFICATION OF PREVIOUSLY EXPOSED SUBSURFACE UTILITIES, AS WELL AS THE TYPE, SIZE, CONDITION, MATERIAL, AND OTHER CHARACTERISTICS.

UTILITY WARNING

THE UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND/OR RECORDS OBTAINED. THE SURVEYOR MAKES NO GUARANTEE THAT THE UTILITIES OR SUBSURFACE FEATURES SHOWN COMPRISE ALL SUCH ITEMS IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UTILITIES OR SUBSURFACE FEATURES SHOWN ARE IN THE EXACT LOCATION INDICATED EXCEPT WHERE NOTED AS QUALITY LEVEL A.

MARK	UPDATED BID ITEM NAME	REVISION	DATE	RMD
1			01-05-26	

DOE ISD SOUTH POWERHOUSE PARKING LOT REPAIR

COUNCIL BLUFFS, IOWA

GENERAL INFORMATION

SNYDER & ASSOCIATES, INC. I

231 BENNETT AVENUE
COUNCIL BLUFFS, IOWA 51503
712-322-3202 | www.snyder-associates.com

Project No: 125-0595.10
Sheet C2

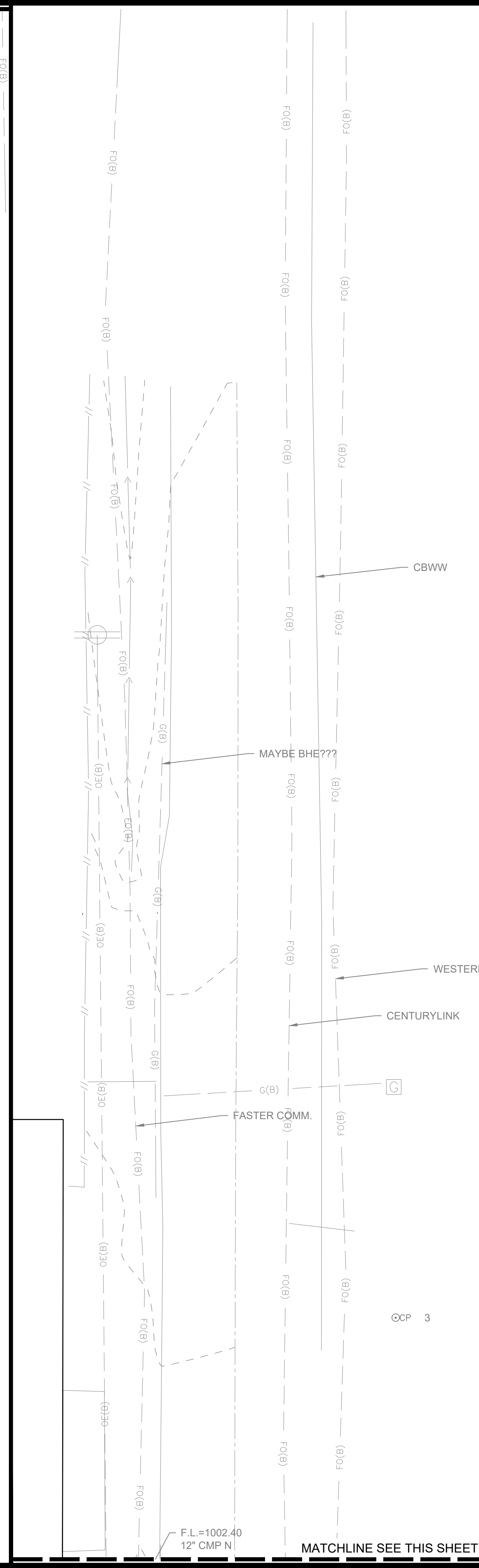
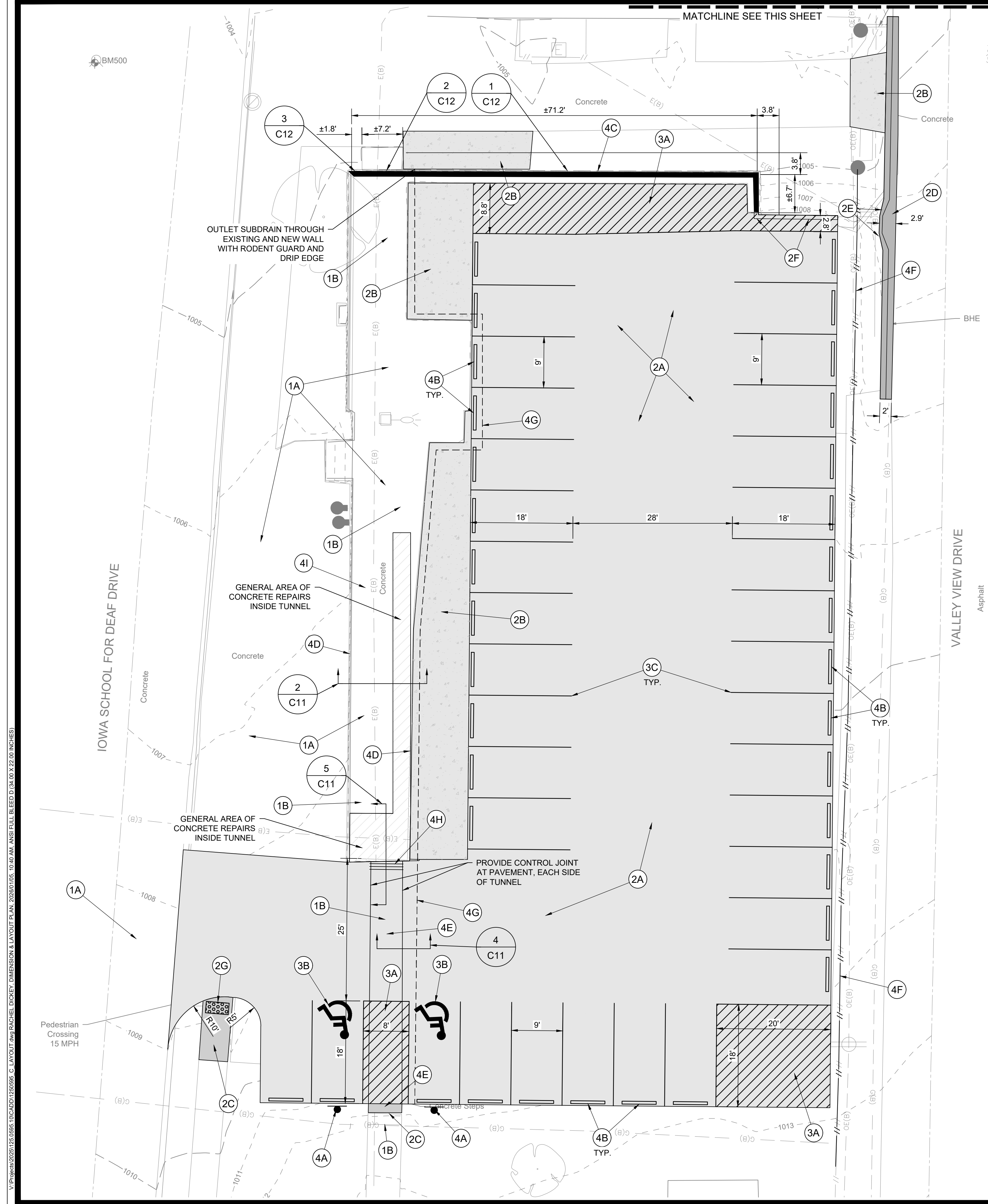
SNYDER & ASSOCIATES

Project No: 125.0595.10
Sheet C2

IOWA ONE CALL

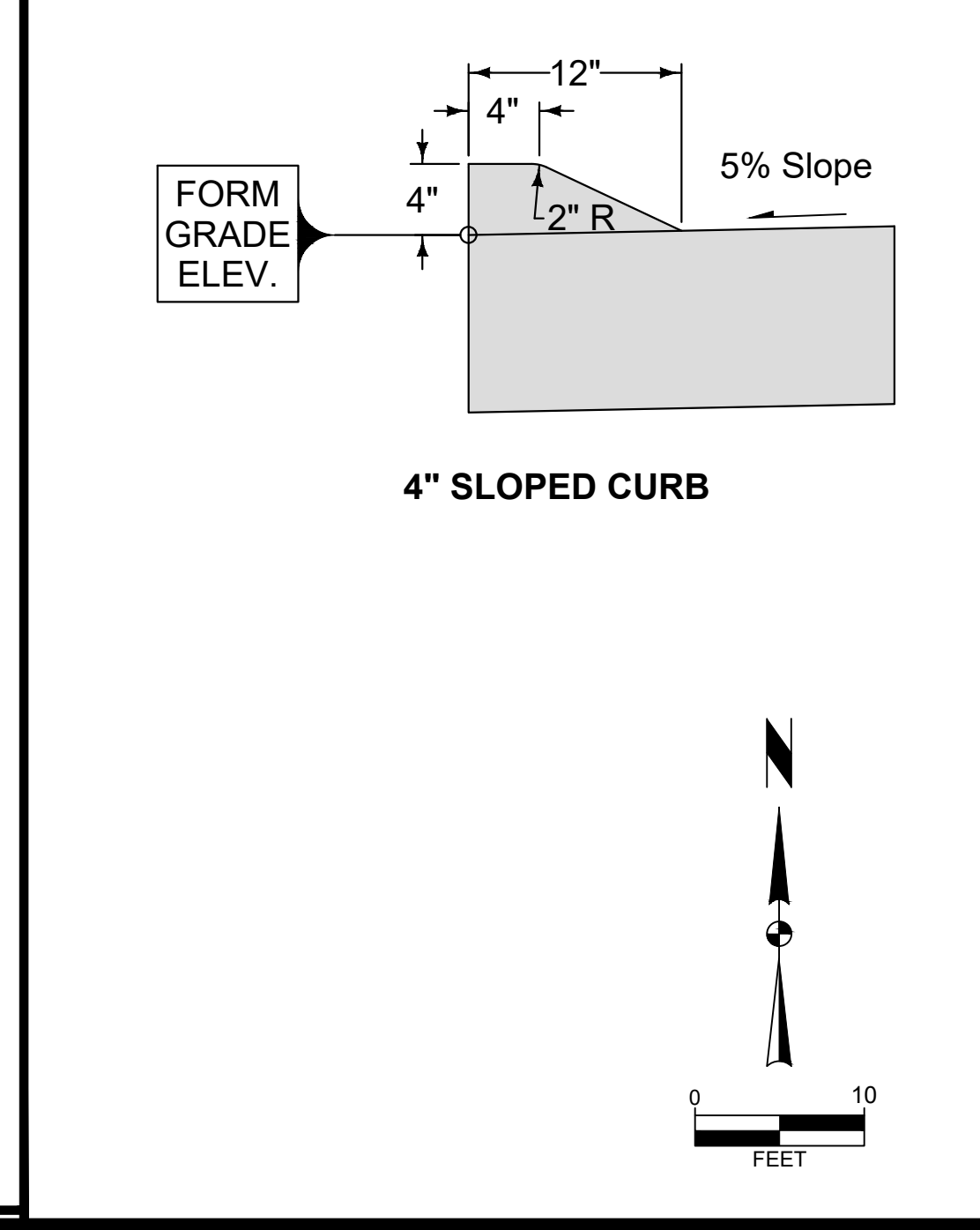
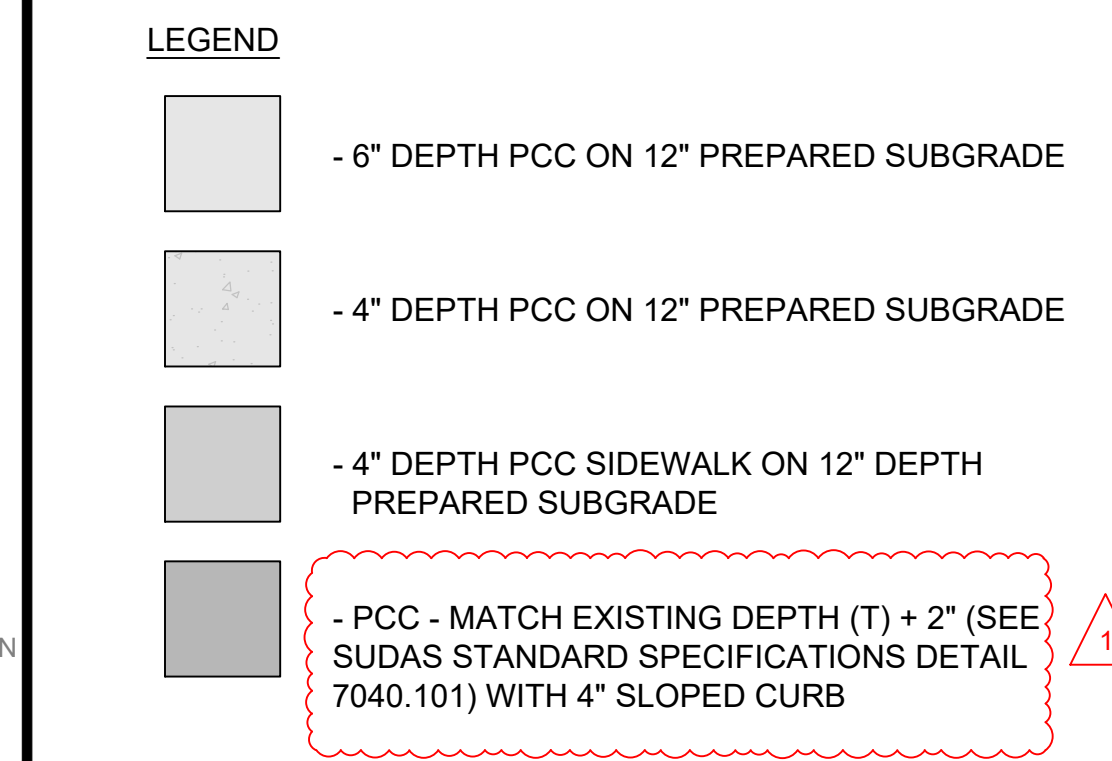
1-800-292-8989
www.iowaonecall.com

I:\Projects\2025\125.0595.10\CADD\1250595.10_GENERAL_INFORMATION_20250102.dwg RACHEL DICKER, GENERAL INFORMATION, 20250102, 4:17 AM, ANSI FULL BLEED D (34.00 X 22.00 INCHES)



- DIMENSION PLAN CONSTRUCTION NOTES**
- EXISTING FEATURES, PROTECT THE FOLLOWING:
 - PAVEMENT TO REMAIN.
 - UNDERGROUND TUNNEL (REFER TO NOTES ON SHEET C8 FOR VEHICLE LIMITATIONS).
 - PAVEMENTS, PROVIDE THE FOLLOWING:
 - 6" DEPTH PCC ON 12" PREPARED SUBGRADE COMPACTED TO 95% STANDARD PROCTOR.
 - 4" DEPTH PCC ON 12" PREPARED SUBGRADE.
 - 4" DEPTH PCC SIDEWALK.
 - 4" PCC SLOPED CURB. SEE DETAIL THIS SHEET.
 - TRANSITION TO 6" CURB AT INLET STRUCTURE.
 - 6" PCC CURB, MATCH AND CONNECT TO EXISTING CURB.
 - DETECTABLE WARNING PANEL AS PER ADA STANDARDS.
 - PAVEMENT MARKINGS, PROVIDE THE FOLLOWING:
 - PAINTED ACCESSIBLE AISLE. 45° STRIPING AT 3' ON CENTER.
 - ACCESSIBLE SYMBOL AS PER ADA STANDARDS.
 - YELLOW 4" WIDE PAINTED PARKING STALL LINES.
 - PROVIDE THE FOLLOWING SITE IMPROVEMENTS WHERE SHOWN ON PLAN:
 - VAN ACCESSIBLE PARKING SIGNAGE AS PER ADA STANDARDS.
 - WHEEL STOPS TO BE PLACED AT EACH PARKING STALL, SEE DETAIL ON SHEET C12.
 - RETAINING WALL.
 - EXISTING MASONRY AND CONCRETE WALL REPAIRS PER NOTES (INSIDE AND OUTSIDE TUNNEL) SEE SHEETS C8 - C12.
 - EXISTING CONCRETE TUNNEL SLAB REPAIRS WHERE EXPOSED DURING PAVEMENT EXCAVATION AND SHOWN TO BE DETERIORATED.
 - INSTALL CHAIN LINK FENCE.
 - 4" PERFORATED SUBDRAIN WITH GRANULAR BACKFILL, FILTER FABRIC AND DAMP PROOFING 3' OF EXISTING WALL.
 - TEMPORARILY SHORE AND PROVIDE (3) NEW GALVANIZED W4X13 BEAMS TO REPLACE EXISTING INSIDE TUNNEL.
 - CLEAN AND PAINT EXISTING STEEL BEAMS IN TUNNEL.

- LEGEND**
- 6" DEPTH PCC ON 12" PREPARED SUBGRADE
 - 4" DEPTH PCC ON 12" PREPARED SUBGRADE
 - 4" DEPTH PCC SIDEWALK ON 12" DEPTH PREPARED SUBGRADE
 - PCC - MATCH EXISTING DEPTH (T) + 2" (SEE SUDAS STANDARD SPECIFICATIONS DETAIL 7040.101) WITH 4" SLOPED CURB



MARK	1	UPDATED NOTE	01-05-26 RMD	DATE	BY
Engineer: EAH	Checked By: TRV	Date: 10-31-2025	Scale: 1" = 10'	T-R-S: 74N-43W-8	Project No: 125.0595.10
Technician: RMD					Sheet C5

DOE ISD SOUTH POWERHOUSE PARKING LOT REPAIR

COUNCIL BLUFFS, IOWA

DIMENSION & LAYOUT PLAN

SNYDER & ASSOCIATES, INC. I

231 BENNETT AVENUE
COUNCIL BLUFFS, IOWA 51503
712-322-3202 | www.snyder-associates.com

SNYDER & ASSOCIATES

Project No: 125.0595.10

Sheet C5

I:\Projects\2025\125.0595.10\DOE ISD SOUTH POWERHOUSE PARKING LOT REPAIR DIMENSION & LAYOUT PLAN.dwg, RACHEL DICKER, DIMENSION & LAYOUT PLAN, 2025/01/05, 10:49 AM, ANSI FULL BLEED D (34.00 x 22.00 INCHES)

GENERAL STRUCTURAL NOTES

- 1. THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS PRIOR TO COMMENCING CONSTRUCTION.
2. ALL OF THE WORK TO BE DONE UNDER THIS CONTRACT SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE DRAWINGS, THE GENERAL REQUIREMENTS OF DIVISION ONE, THE GENERAL CONDITIONS, THE SPECIFICATIONS, AND ANY ADDENDA THERETO.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ACQUAINT THEMSELVES AND ALL SUPERVISORY PERSONNEL WITH THE ABOVE-NAMED DRAWINGS AND DOCUMENTS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTING THE SITE OF THE PROPOSED WORK TO SATISFY THEMSELVES AS TO THE EXISTING CONDITIONS RELATIVE TO THE CONTRACT.
5. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL TEMPORARY SHORING/BRACING OF WALLS, SLABS, COLUMNS, ETC., AS REQUIRED BY ALL FEDERAL, STATE AND LOCAL AGENCIES HAVING JURISDICTION, UNTIL ALL PERMANENT FRAMING IS INSTALLED.
6. UTILITY LOCATIONS ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. SHOULD ANY UTILITIES BE FOUND DIFFERENT THAN LOCATED OR SHOWN ON THE DRAWINGS, THEY SHALL BE PROTECTED IN PLACE AND THE ENGINEER SHALL BE IMMEDIATELY NOTIFIED. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THEIR FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES.
7. ALL CONSTRUCTION SHALL CONFORM TO INTERNATIONAL BUILDING CODE 2015 UNLESS NOTED OTHERWISE.
8. DIMENSIONS MARKED +/- REQUIRE VERIFICATION BY THE CONTRACTOR.
9. IN ANY CASE OF CONFLICT BETWEEN THE NOTES, DETAILS AND SPECIFICATIONS, THE MOST STRINGENT REQUIREMENTS SHALL GOVERN. CONTRACTOR SHALL MAKE NO DEVIATION FROM DESIGN DRAWINGS WITHOUT WRITTEN APPROVAL OF THE ENGINEER.
10. PROTECT AND SHORE ALL OF THE UTILITIES INSIDE AND OUTSIDE OF THE TUNNEL AS REQUIRED.
11. PROTECTIVE FENCE TO BE INSTALLED DURING WORK PREVENTING ENTRANCE TO EXCAVATED AREA. SNOW FENCE TO BE USED AND MAINTAINED THROUGHOUT CONSTRUCTION.
12. UTILITIES WITHIN THE TUNNEL MUST BE PROTECTED IN PLACE.
13. ALL PRODUCTS LISTED IN THESE DRAWINGS ARE THE BASIS-OF-DESIGN AND NOT REQUIRED PRODUCTS, CONTRACTOR MAY USE PRODUCTS THAT ARE SIMILAR OR BETTER IN PERFORMANCE.
14. EXISTING TUNNEL LID AT ENTRY DRIVE RATED FOR 20,000 LBS VEHICLE WITH 8,000 LB WHEEL LOAD MAXIMUM WHEN TOPPING PAVEMENT IS IN PLACE. WHEN PAVEMENT OVER TUNNEL AT ENTRY DRIVE IS REMOVED EXISTING TUNNEL IS RATED FOR 10,000 LB VEHICLE.
15. EXISTING EXPOSED TUNNEL LID WEST OF THE PARKING LOT WHEEL STOPS RATED FOR 10,000 LB VEHICLE WITH 4,000 LB WHEEL LOAD MAXIMUM. ALL EXPOSED TUNNEL LID TO REMAIN AND BE PROTECTED IN PLACE.
16. CONTRACTOR MAY EXCEED THE VEHICLE LIMITS OVER THE EXISTING TUNNEL WITH TEMPORARY STEEL PLATES OR SIMILAR METHODS TO LIMIT WHEEL LOAD CONCENTRATIONS IF THE PLATES EXTEND OVER THE EXISTING WALLS ON EACH SIDE (+7FT). PLATES SHALL BE DESIGNED TO SPAN A MINIMUM OF 5FT WITH THE TRUCK LOAD INTENDED TO BE USED. SUBMIT INFORMATION TO ENGINEER FOR APPROVAL PRIOR TO USE DURING CONSTRUCTION.

MASONRY

- 1. MASONRY CONSTRUCTION SHALL CONFORM TO ACI 530, 530.1, TMS 602, CURRENT EDITIONS.
2. MORTAR FOR MASONRY BEARING WALLS TO BE TYPE S.
3. ALL GROUT TO TEST 2000 PSI AT 28 DAYS.
4. DESIGN fm = 2000 PSI.
5. GROUT SHALL HAVE A COMPOSITION MEASURED BY VOLUME CONSISTING OF ONE PART PORTLAND CEMENT AND TWO PARTS OF SAND WITH TWO PARTS OF PEA GRAVEL. SLUMP SHALL BE MEASURED ON A TRUNCATED METAL CONE.
6. MORTAR SHALL NOT BE USED AS GROUT.
7. MORTAR "FINS" PROTRUDING FROM JOINTS SHOULD BE REMOVED BEFORE POURING GROUT.
8. ALL CONCRETE BLOCK SHALL COMPLY WITH ASTM C90.

DRILLED-IN-DOWELS AND ANCHOR BOLTS

- 1. HOLES FOR DOWELS SHALL BE DRILLED INTO THE EXISTING CONCRETE AT THE LOCATIONS AND OF THE SIZE SHOWN ON THE PLANS. EMBED DRILLED-IN-DOWELS 15 BAR OR ANCHOR BOLT DIAMETERS MINIMUM, UNLESS NOTED OTHERWISE. AFTER HOLES ARE DRILLED, THEY SHALL BE BLOWN CLEAN WITH OIL-FREE COMPRESSED AIR BEFORE THE EPOXY RESIN IS PLACED IN THE HOLE. THE HOLE SHALL BE FILLED WITH EPOXY RESIN TO A LEVEL SUCH THAT AFTER THE BAR IS INSERTED, THE EPOXY WILL RISE TO THE SURFACE OF THE HOLE. IN OVERHEAD APPLICATIONS, WORK AND SECURE ENOUGH EPOXY RESIN INTO THE HOLE SUCH THAT WHEN THE DOWEL IS INSERTED, THE EPOXY RESIN COMPLETELY FILLS THE VOID AROUND THE DOWEL. SECURE THE EPOXY RESIN IN PLACE FOR CURING BY PLUGGING THE HOLE AROUND THE SHANK OF THE DOWEL. REINFORCING STEEL DOWELS OR ANCHOR BOLTS OF THE SIZE SHOWN ON THE PLANS SHALL BE INSERTED INTO THE HOLE IMMEDIATELY AFTER THE EPOXY RESIN IS PLACED. THE EPOXY RESIN SHALL BE PERMITTED TO SET BEFORE NEW CONCRETE IS PLACED AROUND THE ANCHOR.

CONCRETE REINFORCING PLACEMENT SHOP DRAWINGS

- 1. INDICATE DIMENSION AND LOCATIONS OF CONSTRUCTION AND MOVEMENT JOINTS REQUIRED TO CONSTRUCT THE STRUCTURE IN ACCORDANCE WITH ACI 301 (ACI 301M).
2. INCLUDE PLACING DRAWINGS THAT DETAIL FABRICATION, BENDING, AND PLACEMENT.
3. INCLUDE BAR SIZES, LENGTHS, MATERIALS, GRADES, BAR SCHEDULES, BENT BAR DIAGRAMS, BAR ARRANGEMENT, LOCATION OF SPLICES, LENGTHS OF LAP SPLICES, DETAILS OF MECHANICAL SPLICE COUPLERS, AND SUPPORTS FOR CONCRETE REINFORCEMENT.
4. CONSTRUCTION JOINT LAYOUT: INDICATE PROPOSED CONSTRUCTION JOINTS REQUIRED TO BUILD THE STRUCTURE.
5. LOCATION OF CONSTRUCTION JOINTS IS SUBJECT TO APPROVAL OF THE ENGINEER.

CONCRETE DESIGN MIXTURES SHOP DRAWINGS

FOR EACH CONCRETE MIXTURE, INCLUDE THE FOLLOWING:

- 1. MIXTURE IDENTIFICATION.
2. MINIMUM 28-DAY COMPRESSIVE STRENGTH.
3. MAXIMUM W/CM.
4. SLUMP LIMIT.
5. AIR CONTENT.
6. NOMINAL MAXIMUM AGGREGATE SIZE.
7. INDICATE AMOUNTS OF MIXING WATER TO BE WITHHELD FOR LATER ADDITION AT PROJECT SITE IF PERMITTED.
8. INTENDED PLACEMENT METHOD.
9. SUBMIT ALTERNATE DESIGN MIXTURES WHEN CHARACTERISTICS OF MATERIALS, PROJECT CONDITIONS, WEATHER, TEST RESULTS, OR OTHER CIRCUMSTANCES WARRANT ADJUSTMENTS.

CONCRETE REPAIR PRODUCT DATA

- 1. FOR EACH TYPE OF CONCRETE OR MASONRY REPAIR PRODUCT, SUBMIT THE PRODUCT DATA FOR APPROVAL PRIOR TO USE.

SPECIAL INSPECTION

- 1. SPECIAL INSPECTION IN ACCORDANCE WITH SECTION 1704 OF THE 2015 INTERNATIONAL BUILDING CODE, AND ICBO MODEL PROGRAM FOR SPECIAL INSPECTION.
2. THE OWNER WILL EMPLOY AN APPROVED AGENCY TO PERFORM THE SPECIAL INSPECTION SERVICES.
3. SPECIAL INSPECTION WILL BE PERFORMED IN ACCORDANCE WITH AND IN ADDITION TO THE INSPECTION AND TESTING REQUIRED BY THE DRAWINGS AND SPECIFICATIONS.
4. CAST AND LAB CURE FOUR CYLINDERS FOR EACH CONCRETE POUR, TEST AT 7 DAYS, TWO AT 28 DAYS AND HOLD ONE FOR 56 DAYS.
5. THE FOLLOWING ITEMS ARE INCLUDED IN THE SPECIAL INSPECTION:

CONCRETE: AIR-ENTRAINMENT
SLUMP
COMPRESSIVE STRENGTH TESTING
REINFORCING PLACEMENT
POLYMER REPAIR MORTAR PLACEMENT VISUAL INSPECTION

SOIL: PAVEMENT SUBGRADE AND FILL COMPACTION.

CONCRETE

- 1. CONCRETE TO BE IN ACCORDANCE WITH "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 301 CURRENT EDITION)".
2. REINFORCING STEEL TO BE BENT AND PLACED IN ACCORDANCE WITH "MANUAL OF STD. PRACTICE FOR DETAILING CONCRETE STRUCTURES (ACI 315 CURRENT EDITION)".
3. ALL CONCRETE SHALL BE 4000 PSI AT 28 DAYS.
4. CONCRETE EXPOSED TO FREEZE/THAW CONDITIONS SHALL BE AIR ENTRAINED.
5. COARSE AGGREGATE FOR SLABS AND EXPOSED WALLS TO BE CRUSHED LIMESTONE.
6. MAXIMUM AGGREGATE SIZE TO BE 1" - U.N.O.
7. ALL AGGREGATE IN ACCORDANCE WITH ASTM C33. LIMIT SHALE, CHERT, COAL AND IRON OXIDE.
8. 4000 PSI CONCRETE TO HAVE A MIN. 6 SACKS CEMENT/MAX. 5 GAL. OF WATER/SACK.
9. WATER REDUCER REQUIRED FOR ALL WALLS AND SLABS.
10. CONCRETE WATER-CEMENT RATIO INDICATED FOR DESIGN MIXES TO HAVE CEMENT CONTENT ADJUSTED TO PROVIDE A WORKABLE MIX.
11. USE OF CALCIUM CHLORIDES PROHIBITED.
12. ALL REINFORCING STEEL TO BE ASTM A615 - GRADE 60.
13. CLEAR DISTANCE FROM FACE OF CONCRETE TO NEAR REINFORCING BAR TO BE:
3" CAST AGAINST EARTH
2" WALLS AND SLABS ON GRADE (DISTANCE FROM TOP OF SLAB TO NEAR BAR)
14. ALL REINFORCING STEEL SHALL BE SECURELY WIRED IN PLACE BEFORE CONCRETE IS PLACED.
15. MAXIMUM SPACING OF BAR SUPPORTS TO BE 3'-0" O.C. EACH WAY.
16. PROVIDE 2-#5 BARS AROUND ALL SIDES OF HOLES THROUGH CONCRETE WALLS AND SLABS. AT WALLS AND SLABS WITH MULTIPLE MATS OF REINFORCING, PROVIDE SUPPLEMENTAL REINFORCING BARS IN EACH FACE OF MEMBER. BARS TO EXTEND 2'-0" BEYOND EDGES OF OPENINGS.
17. PROVIDE CLASS B TENSION LAP SPLICES FOR CONTINUOUS BARS UNLESS OTHERWISE SHOWN.
18. ALL SLAB REINFORCING STEEL SHALL CONTINUE THROUGH SLAB CONSTRUCTION JOINTS.
19. DO NOT SAWCUT STRUCTURAL SLABS WITHOUT PRIOR APPROVAL OF ENGINEER.
20. THE CONTRACTOR SHALL COORDINATE LOCATIONS OF ALL OPENINGS IN WALLS, SLABS AND FOUNDATIONS FOR DUCTS, PIPES, UTILITY LINES AND OTHER PENETRATIONS WITH THE RESPECTIVE TRADES. ALL SUCH PENETRATIONS SHALL BE FORMED OR SLEEVED IN CONCRETE AND STEEL LINTELS IN MASONRY WALLS.
21. UNLESS OTHERWISE DETAILED ON PLANS, NO OTHER OBJECTS SHALL BE PLACED IN SLABS WITHOUT PRIOR APPROVAL OF ENGINEER (I.E. CONDUIT, MECHANICAL LINES, PLUMBING LINES, ETC.).
22. ALL CONCRETE SLABS SHALL BE POURED TO UNIFORM THICKNESS AS INDICATED ON PLANS.
23. ALL REINFORCING BARS SHALL BE LAPPED AS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS. WHERE NOT SPECIFICALLY INDICATED ON THE DRAWINGS, ALL REINFORCING BARS SHALL BE LAPPED AS FOLLOWS: LAP WALL/BEAM TOP HORIZONTAL REINFORCEMENT AT CENTER OF SPAN. LAP WALL/BEAM BOTTOM HORIZONTAL REINFORCEMENT AT SUPPORT. TERMINATE CONTINUOUS BARS AT DISCONTINUOUS ENDS WITH STANDARD HOOKS.
24. PROVIDE CONSTRUCTION JOINTS IN ACCORDANCE WITH ACI 318, CHAPTER 6.4. SUBMIT SHOP DRAWINGS SHOWING CONSTRUCTION JOINT LOCATIONS ALONG WITH THE SEQUENCE OF POURS FOR REVIEW.
25. NEW WATERSTOPS TO BE BENTONITE SELF ADHERING STRIPS 1"x3/4". SIKA SWELLSTOP OR APPROVED EQUAL.

DEMOLITION AND SHORING

- 1. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO ENSURE THAT PARTS OF THE STRUCTURE TO BE PRESERVED ARE NOT DAMAGED BY THE APPLICATION OF EXCESSIVE LOADS OR BY ANY OTHER MEANS, AND THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY DAMAGE CAUSED.
2. ENSURE SAFE PASSAGE OF PERSONS AROUND AREA OF DEMOLITION AND CONSTRUCTION. CONDUCT OPERATIONS TO PREVENT INJURY TO ADJACENT BUILDINGS, STRUCTURES, EQUIPMENT AND OTHER FACILITIES AND PERSONS.
3. EXISTING STRUCTURE SHALL BE TEMPORARILY SHORED AS REQUIRED TO PERFORM CONSTRUCTION SHOWN HEREIN. MEMBERS SHALL BE REMOVED IN SUCH A MANNER AS NOT TO DAMAGE EXISTING STRUCTURE.
4. ALL REMOVALS OF EXISTING CONCRETE SHALL BE INITIATED WITH A NEAT, 3/4" MIN. DEEP STRAIGHT SAW CUT. ADJUST DEPTH OF CUT WHERE EXPOSED REBAR SHOWS REBAR CLOSER TO AVOID DAMAGING EXISTING REINFORCING.
5. PROTECT EXISTING REINFORCING STEEL IN PLACE. EXERCISE EXTREME CARE TO AVOID DAMAGING EXISTING REINFORCEMENT.
6. EXACT LOCATION OF EXISTING REINFORCEMENT IS TO BE DETERMINED BY THE CONTRACTOR USING A REBAR LOCATOR OR SIMILAR METHOD.
7. LOCATE HOLES FOR BOLTS TO AVOID EXISTING REINFORCEMENT.
8. CONTRACTOR RESPONSIBLE TO REPAIR DAMAGED EXISTING REINFORCEMENT TO THE SATISFACTION OF THE ENGINEER/OWNER. CONTRACTOR RESPONSIBLE FOR ALL COSTS AND DELAYS ASSOCIATED WITH THE REPAIR.
9. IN THE EVENT OF CONFLICTS, NOTIFY ENGINEER PRIOR TO FIELD MODIFICATIONS OF DETAILS, CONNECTIONS, OR DIMENSIONS SHOWN ON THE CONTRACT DRAWINGS.

FOUNDATION NOTES

- 1. ALL FOOTINGS SHALL REST ON UNDISTURBED SOIL OR CONTROLLED COMPACTED FILL. IF UNUSUAL OR QUESTIONABLE CONDITIONS ARE ENCOUNTERED, DO NOT PROCEED UNTIL THE ARCHITECT AND ENGINEER HAVE BEEN NOTIFIED.
2. PROVIDE KEYWAY AT TOP OF ALL FOOTINGS, END OF WALL POURS, AND END OF FOOTING POURS.
3. PROVIDE DOWELS FROM FOOTINGS TO WALLS. USE SAME NUMBER AND SPACING AS VERTICAL WALL BARS, U.N.O.
4. PROVIDE BENT BARS 2'-0" X 2'-0" AT ALL CORNERS AND INTERSECTIONS IN WALLS AND FOOTINGS. USE SAME NUMBER AND SPACING AS HORIZONTAL BARS.
5. BACKFILL EACH SIDE OF WALL SIMULTANEOUSLY.
6. WALLS BACKFILLED ON ONE SIDE ONLY ARE TO BE ADEQUATELY BRACED UNTIL BACKFILL IS COMPLETED.
7. FORM TOPS OF ALL FOOTINGS, TO ENSURE CORRECT LINE AND GRADE.
8. BOTTOM OF EXTERIOR FOOTINGS AND WALLS TO BE AT LEAST 3'-6" BELOW FINAL GROUND LINE.
9. FOUNDATION CONSTRUCTION SHALL CONFORM TO ISG-TEAM INC. PROJECT NO. 71-70.
10. THE CONTRACTOR SHALL HIRE A SOIL TESTING LABORATORY TO VERIFY SOIL BEARING CAPACITY OF EACH FOOTING PRIOR TO PLACING CONCRETE.
11. SHOULD THE SOILS BECOME DISTURBED OR SATURATED PRIOR TO CONCRETE PLACEMENT; AFFECTED SOIL SHALL BE REMOVED AND REPLACED WITH CONTROLLED COMPACTED ENGINEERED FILL.
12. IF UNSUITABLE SUPPORT MATERIALS ARE ENCOUNTERED, SOIL SHALL BE EXCAVATED UNTIL SUITABLE SOIL IS ENCOUNTERED. BACKFILL SHALL BE WITH CONTROLLED COMPACTED ENGINEERED FILL ACCORDING TO GEOTECHNICAL ENGINEER.
13. NET ALLOWABLE FOUNDATION BEARING PRESSURE ON UNDISTURBED SOIL = 1500 PSF.
14. THE CONTRACTOR IS REQUIRED TO SUBMIT A CONTROL/COLD JOINT LAYOUT FOR ALL CAST-IN-PLACE EXPOSED CONCRETE TO THE ENGINEER FOR APPROVAL PRIOR TO PERFORMING THE WORK. ANY WORK REQUIRING DEMOLITION DUE TO IMPROPERLY PLACED JOINTS WILL BE DONE AT NO ADDITIONAL COST TO THE OWNER. THE JOINT LOCATIONS SHOWN ON THE STRUCTURAL PLANS ARE FOR SCHEMATIC PURPOSES ONLY.
15. CONTRACTOR SHALL BE RESPONSIBLE TO ADEQUATELY PROTECT ALL EXCAVATION SLOPES. WHERE NECESSARY, SHEETING AND SHORING OF EXCAVATION SHALL BE PROVIDED WITH ALL REQUIRED TIE-BACKS AND BRACING.
16. CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION TO ALL FOOTINGS DURING CONSTRUCTION TO PREVENT SUPPORTING SOIL FROM FREEZING, USING ADDITIONAL TEMPORARY SOIL COVER OR OTHER MEANS. BOTTOM OF FOOTINGS SHALL BE A MINIMUM OF 3'-6" BELOW TOP OF TEMPORARY SOIL COVER.

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Table with columns: MARK, ADDED NOTE, REVISION, DATE, BY, Checked By, Date, Technician, Scale, Project No.

DOE ISD SOUTH POWERHOUSE PARKING LOT REPAIR
STRUCTURAL NOTES
COUNCIL BLUFFS, IOWA
SNYDER & ASSOCIATES, INC. I

SNYDER & ASSOCIATES logo and contact information: Project No: 125.0595.10, Sheet C8

CONCRETE WALL MIX DESIGN

- 1. CONTRACTOR TO SUBMIT CONCRETE MIXTURE DESIGN AND PRODUCT DATA FOR EACH PRODUCT USED. THE CONCRETE MIX SHALL INCLUDE A MIXTURE IDENTIFICATION NUMBER AND A LIST OF ALL DESIGN VALUES AND PRODUCT QUANTITIES USED FOR THE MIXTURE.
2. PORTLAND CEMENT: ASTM C150/C150M, TYPE II, GRAY.
3. FLY ASH: ASTM C618, CLASS C OR F.
4. SLAG CEMENT: ASTM C989/C989M, GRADE 100 OR 120.
5. NORMAL-WEIGHT AGGREGATES: ASTM C33/C33M, COARSE AGGREGATE OR BETTER, GRADED. PROVIDE AGGREGATES FROM A SINGLE SOURCE.
6. ALKALI CONTENT IN CONCRETE: NOT MORE THAN 4 LB./CU. YD. FOR MODERATELY REACTIVE AGGREGATE OR 3 LB./CU. YD. FOR HIGHLY REACTIVE AGGREGATE, WHEN TESTED IN ACCORDANCE WITH ASTM C1293 AND CATEGORIZED IN ACCORDANCE WITH ASTM C1778, BASED ON ALKALI CONTENT BEING CALCULATED IN ACCORDANCE WITH ACI 301.
7. AIR-ENTRAINING ADMIXTURE: ASTM C260/C260M.
8. MAXIMUM COARSE-AGGREGATE SIZE: 1 INCH NOMINAL.
9. FINE AGGREGATE: FREE OF MATERIALS WITH DELETERIOUS REACTIVITY TO ALKALI IN CEMENT.
10. CHEMICAL ADMIXTURES: CERTIFIED BY MANUFACTURER TO BE COMPATIBLE WITH OTHER ADMIXTURES THAT DO NOT CONTRIBUTE WATER-SOLUBLE CHLORIDE IONS EXCEEDING THOSE PERMITTED IN HARDENED CONCRETE. DO NOT USE CALCIUM CHLORIDE OR ADMIXTURES CONTAINING CALCIUM CHLORIDE IN STEEL-REINFORCED CONCRETE.
11. MINIMUM COMPRESSIVE STRENGTH: 4000 PSI AT 28 DAYS.
12. MAXIMUM W/CM: 0.44.
13. SLUMP LIMIT: FOR WATER REDUCED MIXES, 8 INCHES PLUS OR MINUS 1 INCH FOR CONCRETE WITH VERIFIED SLUMP OF 2 TO 4 INCHES BEFORE ADDING HIGH-RANGE WATER-REDUCING ADMIXTURE OR PLASTICIZING ADMIXTURE.
14. AIR CONTENT: 6 PERCENT, PLUS OR MINUS 1.5 PERCENT AT POINT OF DELIVERY FOR CONCRETE CONTAINING 1-INCH NOMINAL MAXIMUM AGGREGATE SIZE.
15. LIMIT WATER-SOLUBLE, CHLORIDE-ION CONTENT IN HARDENED CONCRETE TO 0.30 PERCENT BY WEIGHT OF CEMENT.
16. BONDING AGENT IS TO BE SIKA ARMATEC 110 EPOCEM BONDING AGENT OR APPROVED EQUAL.

STEEL

- 1. STRUCTURAL STEEL TO BE FABRICATED AND ERECTED IN ACCORDANCE WITH "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" (AISC 360, CURRENT EDITION) AND "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" (AISC 303, CURRENT EDITION).
2. STRUCTURAL STEEL WIDE FLANGE SECTIONS IN ACCORDANCE WITH ASTM A992.
3. EXPANSION ANCHORS SHALL BE HILTI KWIK BOLT TZ OR APPROVED EQUAL.GROUT MASONRY SOLID AT EXPANSION BOLTS.
4. ADHESIVE FOR ANCHORS SHALL BE HILTI HIT RE 500-SD OR APPROVED EQUAL.THREADED RODS SHALL BE HILTI HAS-E STANDARD RODS UNLESS NOTED OTHERWISE.
5. CUTS, HOLES, COPING, ETC. REQUIRED FOR WORK OF OTHER TRADES SHALL BE SHOWN ON THE SHOP DRAWINGS AND MADE IN THE SHOP. CUTS OR BURNING OF HOLES IN STRUCTURAL STEEL MEMBERS IN THE FIELD WILL NOT BE PERMITTED.
6. HOT DIP GALVANIZE ALL STRUCTURAL STEEL AFTER FABRICATION.

PAINTING

- 1. APPLY PAINTS ONLY WHEN TEMPERATURE OF SURFACES TO BE PAINTED AND AMBIENT AIR TEMPERATURES ARE BETWEEN 50 AND 95 DEG F.
2. DO NOT APPLY PAINTS WHEN RELATIVE HUMIDITY EXCEEDS 85 PERCENT; AT TEMPERATURES LESS THAN 5 DEG F ABOVE THE DEW POINT; OR TO DAMP OR WET SURFACES.
3. STEEL SUBSTRATES: REMOVE RUST, LOOSE MILL SCALE, AND SHOP PRIMER IF ANY. CLEAN USING METHODS RECOMMENDED IN WRITING BY PAINT MANUFACTURER PER SSPC-SP 6.
4. APPLY PAINTS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS AND RECOMMENDATIONS.
5. FURNISH EXTRA MATERIALS, FROM THE SAME PRODUCT RUN, THAT MATCH PRODUCTS INSTALLED AND THAT ARE PACKAGED WITH PROTECTIVE COVERING FOR STORAGE AND IDENTIFIED WITH LABELS DESCRIBING CONTENTS.
6. PAINT PRODUCT:
SYSTEM TYPE: EPOXY/EPOXY
SURFACE PREPARATION: SSPC-SP6/NACE 3 COMMERCIAL BLAST CLEANING OR SSPC-SP3 POWER TOOL CLEANING (SSPC RUST GRADE CONDITION C)
PRIMER: SERIES 394 PERIMEPRIME, DFT 2.5 TO 3.5 MILS
INTERMEDIATE COAT: SERIES N69 HI-BUILD EPOXOLINE II, DFT 3.0 TO 5.0 MILS
FINISH COAT: SERIES N69 HI-BUILD EPOXOLINE II, DFT 4.0 TO 6.0 MILS
TOTAL DFT: 9.5 TO 14.5 MILS

PAINT SUBMITTAL

- 1. COLOR: STANDARD GRAY
2. PRODUCT DATA: FOR EACH TYPE OF PRODUCT. INCLUDE PREPARATION REQUIREMENTS AND APPLICATION INSTRUCTIONS.
3. INCLUDE PRINTOUT OF CURRENT "MPI APPROVED PRODUCTS LIST" FOR EACH PRODUCT CATEGORY SPECIFIED, WITH THE PROPOSED PRODUCT HIGHLIGHTED.
4. INDICATE VOC CONTENT.
5. SAMPLES FOR VERIFICATION: FOR EACH TYPE OF PAINT SYSTEM AND EACH COLOR AND GLOSS OF TOPCOAT.

CONCRETE REPAIR NOTES

- 1. ALL EXISTING CONCRETE TO BE REMOVED IS TO BE REMOVED TO NEAT LINES. ALL SUCH REMOVALS SHALL BE TO NEAT SAW CUTS TO PROVIDE CLEAN STRAIGHT SURFACES AT INTERFACES BETWEEN NEW CONCRETE AND REMAINING CONCRETE. PATCHING REQUIRED DUE TO POOR REMOVAL PRACTICES WILL BE AT THE DIRECTION OF THE ENGINEER AND AT THE CONTRACTORS EXPENSE.
2. ALL CONCRETE REMOVALS SHALL COMMENCE WITH A NEAT 3/4 " DEEP, STRAIGHT SAW CUT. ALL SAW CUTS SHALL TERMINATE AT A 90 DEG RIGHT ANGLE. SAW CUTS SHALL NOT OVERLAP. DO NOT CUT EXISTING REINFORCING.
3. EXPOSED REINFORCING SHALL BE CLEANED TO BARE METAL BY SANDBLASTING AND BASF/MASTER BUILDERS MASTEREMACO P124 OR APPROVED EQUAL APPLIED TO EXPOSED STEEL. ALTERNATIVE METHODS FOR CLEANING REBAR THAT DO NOT DAMAGE THE EXISTING REINFORCING WILL BE APPROVED IF DEEMED EQUIVALENT.
4. ALL SURFACES OF OLD CONCRETE AGAINST WHICH NEW PATCHING MORTAR OR REPAIR CONCRETE IS TO BE PLACED SHALL BE THOROUGHLY CLEANED AND ALL LOOSE MATERIAL SHALL BE REMOVED BY DRY SWEEPING AND BLOWING OUT WITH CLEAN, DRY COMPRESSED AIR AND BASF/MASTER BUILDERS MASTEREMACO P124 OR APPROVED EQUAL APPLIED TO SURFACES.
5. ALL EXISTING REINFORCING BARS THAT ARE EXPOSED BY CONCRETE REMOVAL SHALL BE CLEANED AND CAREFULLY INCORPORATED INTO THE NEW WORK, EXCEPT WHERE THE REINFORCING SECTION LOSS IS 25% OR MORE DETERIORATED THEN THE EXISTING REINFORCING SHALL BE REPLACED AS DIRECTED BY THE ENGINEER, (#3 @ 4" O.C. FOR EXISTING TUNNEL SLAB).
6. THE CONCRETE ANCHORS REQUIRED SHALL HAVE A MINIMUM PULL OUT OF 5000 LBS. BASED ON 4000 PSI CONCRETE. THE ANCHORS SHALL BE GALVANIZED AND SHALL BE INCLUDED INSTALLED ACCORDING TO RECOMMENDATIONS OF THE MANUFACTURER.
7. THE WELDED WIRE FABRIC SHALL BE ASTM A185 AND GALVANIZED AS PER ASTM A-641. THE WWF WIRES SHALL BE SPACED 3X3 OR 4X4 AND THE WIRES SHALL HAVE A NOMINAL AREA OF 0.14 TO 0.029 SQUARE INCHES INCLUSIVE, EXAMPLE " WWF 3X3-W1.4XW2.9 ".
8. WHERE REINFORCEMENT HAS BEEN EXPOSED AND CLEARANCE AROUND THE PERIPHERY OF THE EXISTING BAR IS PROVIDED NO SUPPLEMENTAL REINFORCING IS REQUIRED. EXCEPT WHERE EXISTING REINFORCING DENSITY AND PATTERN ARE SUCH THAT INDIVIDUAL OPEN SPACES BETWEEN BARS ARE OF 1.5 SF OR LARGER. FOR THIS CONDITION 1/2 " DIA. CONCRETE ANCHORS AND WELDED WIRE FABRIC SHALL BE INSTALLED AT THE RATE OF ONE CONCRETE ANCHOR WITH WWF PER EACH 1.5 SF OF AREA WITHIN EACH OPEN SPACE.
9. FINISH REPAIR SPALL WITH BASF/MASTER BUILDERS MASTEREMACO N425 OR APPROVED EQUAL.
10. USE ALL PRODUCTS IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION INCLUDING ANY AND ALL SURFACE PREPARATION.

11. BASIS-OF-DESIGN PRODUCT IS ASSUMED TO BE HAND TROWELED. ALTERNATIVE APPLICATION METHODS MAY BE USED IF THE CONTRACTOR CAN PROVE THAT THE APPLICATION WILL MEET OR EXCEED THE SPECIFIED PRODUCT SHOWN ON THE DRAWINGS WHILE MEETING ALL OTHER CONTRACT REQUIREMENT AND FOLLOWING ALL OTHER PLAN NOTES.

MASONRY REPAIR PROCEDURE

- 1. REMOVE EXISTING LOOSE OR UNSOUND CEMENTITIOUS MATERIALS, INCLUDING PARGE COATINGS.
2. CONTRACTOR TO MARK OUT AND QUANTITY ALL AREAS OF PROPOSED REPAIRS ON THE WALLS TO BE PERFORMED. THE ENGINEER AND OWNER SHALL REVIEW FOR APPROVAL PRIOR TO THE CONTRACTOR PERFORMING THE WORK.
3. REMOVE AND REPLACE AND CRACKED, SPALLED, OR DETERIORATED BLOCK. REMOVE AND RESTACK ANY BLOCK THAT IS OUT OF PLANE FROM THE REST OF THE WALL.
4. PROVIDE NEW CEMENTITIOUS PARGE COAT OVER MASONRY AND CONCRETE WALL WHERE EXISTING COAT WAS REMOVED. MATCH EXISTING THICKNESS, 1/2" ASSUMED. CONTRACTOR MAY USE SAKRETE PARGING MIX OR APPROVED EQUAL.

DAMPPROOFING

- 1. THE TOP 3 FEET OF THE EAST WALL OF THE TUNNEL AT THE PARKING LOT SHALL BE EXPOSED, CLEANED AND DAMPPROOFED.
2. DAMPPROOFING SHALL BE WITH A SOLVENT FREE, ASBESTOS FREE, ASPHALT COMPOUND. PRODUCT TO BE W.R. MEADOWS SEALMASTIC SOLVENT DAMPPROOFING OR APPROVED EQUAL.
3. THE BASIS OF DESIGN FOR DAMPPROOFING SYSTEM IS TO BE A TWO-COAT SYSTEM USING A PRIME COAT OF W.W. MEADOWS SPRAY-MASTIC AS A PRIME COAT AND W.R. MEADOWS TROWEL-MASTIC TOP COAT. PREPARE SURFACE, INSTALL DAMPPROOFING AND BACKFILL WALL IN STRICT ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.

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DOE ISD SOUTH POWERHOUSE PARKING LOT REPAIR
STRUCTURAL NOTES
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Project No: 125.0595.10
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