

**CITY OF WEST DES MOINES
PLAN AND ZONING COMMISSION COMMUNICATION**

Meeting Date: February 29, 2016

Item: Alluvion DSM07, 550 SE White Crane Road - Approval of site plan for Phase 4 data center construction – Microsoft Corp - SP-002987-2016

Requested Action: Approval of Site Plan

Case Advisor: Lynne Tweed

Applicant's Request: The applicant, Microsoft Corporation, is requesting approval of a Site Plan for Alluvion DSM07 which is Phase 4 of the Microsoft project. This phase will add four more data server buildings (approximately 285,000sf) to the site. This is the last of the anticipated construction phases.

History: The subject site was annexed into the City as part of the Iowa 5 Annexation which was approved by the City Council in June, 2002. Microsoft received approval of the Phase One Site Plan that allowed the installation of an Administration building, four data server buildings and related site improvements on September 3, 2014. On May 4, 2015, the City Council approved a phasing plan for the installation of required landscaping coinciding with the building construction phases. On July 13, 2015, the City Council approved the site plan for Alluvion DSM06.

City Council Subcommittee: This item was presented to the Development and Planning City Council Subcommittee on February 22, 2016, as an informational item only. No discussion was had and no disagreement with the proposal was expressed.

Staff Review and Comment: This request was distributed to other City departments and other agencies for their review and comment. There are no outstanding issues.

Comprehensive Plan Consistency: The project has been reviewed for consistency with the Comprehensive Plan. Based upon that review, a finding has been made that the proposed project is consistent with the Comprehensive Plan in that the project is consistent with all of the goals and policies of the Comprehensive Plan and the land use map of the Comprehensive Plan.

Findings: This proposed project was distributed to various city departments for review and comment. Based upon that review, the following findings have been made on the proposed project:

1. The proposed development and use is consistent with the West Des Moines Comprehensive Plan in that the project has been reviewed for consistency with the Comprehensive Plan. Based upon that review, a finding has been made that the proposed project is consistent with the Comprehensive Plan in that the project is consistent with all of the goals and policies of the Comprehensive Plan.
2. The proposed development and use does assure compatibility of property uses within the zone and general area in that this project was reviewed by various City Departments for compliance with the Zoning Ordinance.
3. All applicable standards and conditions have been imposed which protects the public health, safety and welfare in that this project was reviewed by various City Departments and public agencies for compliance with the various state and local regulations. Based upon that review a finding is made that the project has been adequately conditioned to protect the health, welfare and safety of the community.
4. There is adequate on-site and off-site public infrastructure to support the proposed development in that this project was reviewed by various public agencies and City Departments and public utilities to ensure that either the petitioner will construct or the project has been conditioned to construct adequate public infrastructure to serve the development.

5. The proposed development and use has met the requirements contained in the City Code in that this project was reviewed by various City Departments and the project has complied with or has been conditioned to comply with all City Code requirements.
6. The proposed development and use is in keeping with the scale and nature of the surrounding neighborhood in that the proposed project is consistent with the zoning designation and Comprehensive Plan which designates this site as suitable for development such as that proposed by this project.

Staff Recommendation And Conditions Of Approval: Based upon the preceding review and a finding of consistency with the goals and policies of the Comprehensive Plan, staff recommends the Plan and Zoning Commission adopt a resolution recommending the City Council approve the Alluvion DSM07 Site Plan to allow construction of four data server buildings within the phase four area, subject to the applicant meeting all City Code requirements and the following:

1. The applicant acknowledging that all phases collectively will need to abide at all times by the regulations stated in the City's Noise Ordinance;
2. The applicant taking the necessary measures within the limits of what Microsoft security measures will allow to minimize light pollution on surrounding properties and the area in general;
3. The applicant installing site landscaping identified for this phase in conjunction with construction of this phase, with said landscaping installed prior to issuance of a final occupancy permit; and,
4. The applicant acknowledging and agreeing that any intended modifications to the site which differ from that shown on the final approval stamped site plan drawing packet shall require the review and approval of the City prior to implementation. Said changes may require the submittal and approval of a Minor or Major Modification Permit application, whichever is deemed applicable by staff which shall be reviewed and approved prior to implementation of any changes.

Property Owner/Applicant:

Microsoft Corporation
 Attn: Dan McDermit
 One Microsoft Way
 Redmond, WA 98052
damcderm@microsoft.com

Applicant's Representatives:

PACLAND
 11711 SE 8th Street, Suite 303
 Bellevue, WA 98005
 Attn: Steve Pesce
spesce@pacland.com

ATTACHMENTS:

- | | |
|-------------|--|
| Exhibit I- | Plan and Zoning Commission Resolution |
| Exhibit A | - Conditions of Approval |
| Exhibit II | - Location Map |
| Exhibit III | - Site Plan -- <i>The current site plan includes over 100 pages. Staff has provided the key sheets to illustrate phase four improvements. If specific details are desired, staff can provide upon request.</i> |
| Exhibit IV | - Aerial illustration of site |

RESOLUTION NO. PZC

A RESOLUTION OF THE PLAN AND ZONING COMMISSION OF THE CITY OF WEST DES MOINES, RECOMMENDING TO THE CITY COUNCIL THAT IT APPROVE A SITE PLAN TO ALLOW CONSTRUCTION OF DATA SERVER BUILDINGS

WHEREAS, pursuant to the provisions of Title 9, Chapter 1 et seq, of the West Des Moines Municipal Code, the applicant, Microsoft Corporation, has requested approval for the Alluvion DSM07 Site Plan (SP-002987-2016) located at 550 SE White Crane Road to allow construction of four data server buildings (approximately 285,000sf) and associated site improvements as part of the Alluvion DSM07 project;

WHEREAS, studies and investigations were made, and staff reports and recommendations were submitted which is made a part of this record and herein incorporated by reference;

WHEREAS, on February 29, 2016 this Commission held a duly-noticed public meeting to consider the application for Site Plan (SP-002987-2016);

NOW, THEREFORE, THE PLAN AND ZONING COMMISSION OF THE CITY OF WEST DES MOINES DOES RESOLVE AS FOLLOWS:

SECTION 1. The findings, for approval, in the staff report, dated February 29, 2016, or as amended orally at the Plan and Zoning Commission meeting of February 29, 2016, are adopted.

SECTION 2. SITE PLAN (SP-002987-2016) for the construction of four data server buildings is recommended to the City Council for approval, subject to compliance with all the conditions in the staff report, dated February 29, 2016, including conditions added at the Hearing, and attached hereto as Exhibit "A". Violation of any such conditions shall be grounds for revocation of the permit, as well as any other remedy which is available to the City.

PASSED AND ADOPTED on February 29, 2016.

Craig Erickson, Chairperson
Plan and Zoning Commission

ATTEST:

Recording Secretary

I HEREBY CERTIFY that the foregoing resolution was duly adopted by the Plan and Zoning Commission of the City of West Des Moines, Iowa, at a regular meeting held on February 29, 2016, by the following vote:

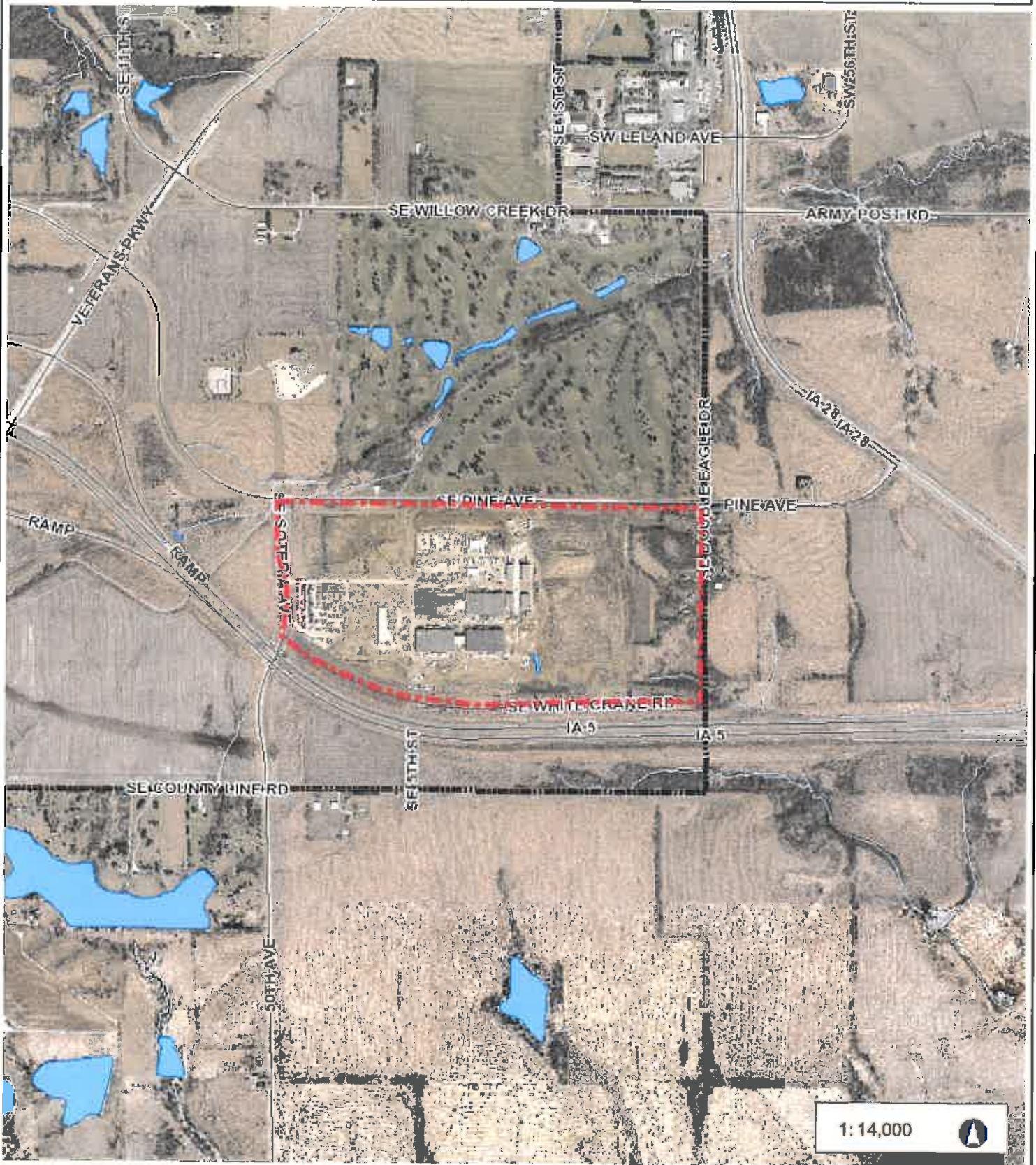
AYES:
NAYS:
ABSTENTIONS:
ABSENT:

ATTEST:

Recording Secretary

CONDITIONS OF APPROVAL

1. The applicant acknowledging that all phases collectively will need to abide at all times by the regulations stated in the City's Noise Ordinance;
2. The applicant taking the necessary measures within the limits of what Microsoft security measures will allow to minimize light pollution on surrounding properties and the area in general;
3. The applicant installing site landscaping identified for this phase in conjunction with construction of this phase, with said landscaping installed prior to issuance of a final occupancy permit; and,
4. The applicant acknowledging and agreeing that any intended modifications to the site which differ from that shown on the final approval stamped site plan drawing packet shall require the review and approval of the City prior to implementation. Said changes may require the submittal and approval of a Minor or Major Modification Permit application, whichever is deemed applicable by staff which shall be reviewed and approved prior to implementation of any changes.



1:14,000 



NAD_1983_StatePlane_Iowa_South_FIPS_1402_Feet
© City of West Des Moines, Iowa

Disclaimer: The City of West Des Moines makes no warranties regarding the accuracy or completeness of the data provided herein.

THIS MAP IS NOT TO BE USED FOR NAVIGATION

Page Southeast Page, Inc.
400 W. Center Street, 8th Floor
Austin, TX 78701
page@ps.com
Tel: 512.477.8211
Fax: 512.477.8211

LAND
31400 58th St.
Suite 300
Bellevue, WA 98004
Tel: (206) 451-2551
Fax: (206) 451-4308
www.land.com



**DSM 08
DATA CENTER**
550 SE WHITE CRANE ROAD
WEST DES MOINES, IA 50265

Design Team

Owner	L. MAHER / PLACLAND
Design	A. J. HARRIS
Checker	T. SHIFFRIN
Date	10/20/15
Project No.	15000000000000000000
Sheet No.	1-0000

Approvals

Client	DATE
Michael W. Mahler	DATE
Michael W. Mahler	DATE
Michael W. Mahler	DATE
Michael W. Mahler	DATE
Michael W. Mahler	DATE
Michael W. Mahler	DATE
Michael W. Mahler	DATE
Michael W. Mahler	DATE
Michael W. Mahler	DATE

DESIGN TEAM

Lead Designer	JASON GILBERT PAGE
Designer	RYAN HAYWOOD PAGE
Senior Engineer	STEVE PESCOSI / PLACLAND
Engineer	CHRIS BROWNE / PCL
Engineer	CHRIS BROWNE / PCL
Engineer	JOHN CURRISON PAGE
Engineer	ANDY BROCKTON PAGE
Engineer	NATE ELLIS / SPARKLING
Engineer	PETE BREZDZINSKI / ANO

Revisions

No.	Date	Description
1	2015.07.24	100% RFI



Key Plan

Bar Code
CONFIDENTIAL - TRADE SECRET - DO NOT DISCLOSE
This information constitutes confidential proprietary trade secret as defined in the Iowa Uniform Trade Secrets Act and is provided pursuant to a process of confidentiality.

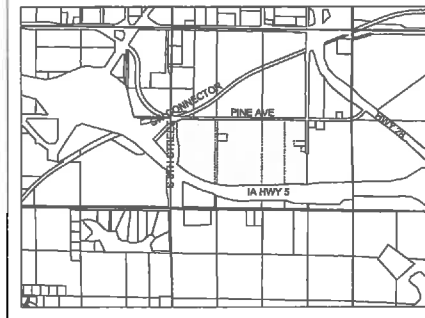
Sheet Title/Number

COVER SHEET

C-A-01



DSM08 DATA CENTER
550 WHITE CRANE ROAD
WEST DES MOINES, IOWA 50265



VICINITY MAP
SCALE 1" = 2000'

CONSULTANTS

CIVIL:
PLACLAND
11400 SE 8TH STREET, SUITE 345
BELLEVUE, WASHINGTON 98004
(425) 453-9501
CONTACT: TOM DARGAN
STEVEN PESCE

SURVEYOR:
CIVIL DESIGN ADVANTAGE, LLC
3405 SE CROSSROADS DR., SUITE C
GRIMES, IA 50111
(515) 369-4400
CONTACT: DEAN ROCHAIR
MIKE BROONER, P.L.S.

ARCHITECT:
PAGE, LLP
400 WEST CESAR CHAVEZ, SUITE 500
AUSTIN, TX 78701
(512) 472-6721
CONTACT: JASON GILBERT, AIA

OWNER/APPLICANT

MICROSOFT CORPORATION
ONE MICROSOFT WAY
REDMOND, WA 98052
OFFICE: (425) 703-4600
CELL: (425) 505-8321
CONTACT: DANIEL McDERUIT

GOVERNING AGENCIES

REVIEW AGENCY:
CITY OF WEST DES MOINES
4200 MILLS CIVIC PARKWAY, SUITE 2D
WEST DES MOINES, IA 50265
(515) 222-3620
CONTACT: LYNNE TYEDT

FIRE DISTRICT:
CITY OF WEST DES MOINES
3421 ASHWORTH ROAD
WEST DES MOINES, IA 50265
(515) 222-3420
CONTACT: MIKE WHITSELL

UTILITIES

WATER:
WEST DES MOINES WATER WORKS
4200 MILLS CIVIC PARKWAY, SUITE 1D
WEST DES MOINES, IA 50265-2049
(515) 222-3610
CONTACT: DIANA WILSON, P.E.

SANITARY SEWER:
CITY OF WEST DES MOINES
560 SOUTH 16TH STREET
WEST DES MOINES, IA 50265
(515) 222-3480
CONTACT: CLINT CARPENTER

BENCHMARK

BENCH MARK WDM-BM-101
CITY OF WEST DES MOINES 1-1/2" SURVEY CAP IN CONCRETE
CYLINDER AT THE NORTHEAST CORNER OF S ORILLA ROAD AND
SOUTH COUNTY LINE ROAD (SEE CITY TIE)
ELEVATION = 172.02
BENCH MARK WDM-BM-110
CITY OF WEST DES MOINES 1-1/2" SURVEY CAP IN CONCRETE
CYLINDER AT THE NORTHEAST CORNER OF S ORILLA ROAD AND
SOUTH COUNTY LINE ROAD (SEE CITY TIE)
NORTHING = 551027.64 EASTING = 1576943.14
ELEVATION = 195.97
TO CONVERT FROM WEST DES MOINES DATUM TO NAVD88
DATUM ADD 774.01 FEET.

LEGAL DESCRIPTION

A PART OF THE SOUTHEAST QUARTER AND PART OF THE SOUTHWEST
QUARTER OF SECTION 35, TOWNSHIP 78 NORTH, RANGE 25 WEST OF
THE FIFTH PRINCIPAL MERIDIAN IN THE CITY OF WEST DES MOINES,
POLK COUNTY, IOWA AND MORE PARTICULARLY DESCRIBED AS
FOLLOWS:
BEGINNING AT THE NORTHEAST CORNER OF THE WEST HALF OF SAID
SOUTHEAST QUARTER; THENCE SOUTH 0°44'09" EAST ALONG THE EAST
LINE OF SAID WEST HALF OF THE SOUTHEAST QUARTER, 1899.11 FEET
TO THE NORTHERLY RIGHT OF WAY LINE OF IOWA HIGHWAY 5; THENCE
NORTH 88°39'30" WEST ALONG SAID NORTHERLY RIGHT OF WAY LINE,
406.92 FEET; THENCE SOUTH 87°11'50" WEST CONTINUING ALONG SAID
NORTHERLY RIGHT OF WAY LINE, 280.47 FEET; THENCE SOUTH
87°54'07" WEST CONTINUING ALONG SAID NORTHERLY RIGHT OF WAY
LINE, 1555.25 FEET; THENCE NORTHWESTERLY CONTINUING ALONG SAID
NORTHERLY RIGHT OF WAY LINE AND ALONG CURVE CONCAVE
NORTHEASTERLY WHOSE RADIUS IS 2473.75 FEET, WHOSE ARC LENGTH
IS 1659.46 FEET AND WHOSE CHORD BEARS NORTH 68°54'28" WEST,
1628.52 FEET; THENCE NORTH 50°28'18" WEST CONTINUING ALONG SAID
NORTHERLY RIGHT OF WAY LINE, 65.47 FEET TO THE EASTERLY RIGHT
OF WAY LINE OF SOUTH 8TH STREET; THENCE NORTHERLY ALONG SAID
EASTERLY RIGHT OF WAY LINE AND A CURVE CONCAVE WESTERLY
WHOSE RADIUS IS 1077.10 FEET, WHOSE ARC LENGTH IS 610.05 FEET
AND WHOSE CHORD BEARS NORTH 3°27'49" EAST, 601.93 FEET;
THENCE CONTINUING NORTHERLY ALONG SAID EASTERLY RIGHT OF WAY
LINE AND A CURVE CONCAVE EASTERLY WHOSE RADIUS IS 1908.46
FEET, WHOSE ARC LENGTH IS 425.16 FEET AND WHOSE CHORD BEARS
NORTH 06°22'48" WEST, 424.28 FEET; THENCE NORTH 00°00'08" EAST
CONTINUING ALONG SAID EASTERLY RIGHT OF WAY LINE, 235.47 FEET;
THENCE NORTH 78°11'00" EAST CONTINUING ALONG SAID EASTERLY
RIGHT OF WAY LINE, 65.91 FEET; THENCE NORTH 55°49'46" EAST
CONTINUING ALONG SAID EASTERLY RIGHT OF WAY LINE, 78.45 FEET
TO A POINT BEING 33.00 FEET SOUTH OF THE NORTH LINE OF SAID
SOUTHWEST QUARTER; THENCE NORTH 89°43'16" WEST PARALLEL WITH
SAID NORTH LINE OF THE SOUTHWEST QUARTER, 309.62 FEET TO THE
WEST LINE OF SAID SOUTHWEST QUARTER; THENCE NORTH 00°10'08"
WEST ALONG SAID WEST LINE, 33.00 FEET TO THE WEST QUARTER
CORNER OF SAID SECTION 35; THENCE SOUTH 89°43'16" EAST ALONG
THE NORTH LINE OF SAID SOUTHWEST QUARTER, 2641.54 FEET TO THE
CENTER OF SAID SECTION 35; THENCE SOUTH 89°43'28" EAST ALONG
THE NORTH LINE OF SAID SOUTHWEST QUARTER, 1315.47 FEET TO THE
POINT OF BEGINNING AND CONTAINING 160.70 ACRES (7,000,160
SQUARE FEET).

NOTES

- SITE WORK FOR THIS PROJECT SHALL MEET OR EXCEED THE
PROJECT SPECIFICATIONS AND THE CURRENT CITY OF WEST DES
MOINES STANDARD SPECIFICATIONS FOR SUBDIVISIONS AND
ADDENDUMS.
- THE DESIGN SHOWN IS BASED UPON THE ENGINEER'S
UNDERSTANDING OF THE EXISTING CONDITIONS AND DSM05, DSM06,
AND DSM07 DESIGN INFORMATION. THIS PLAN DOES NOT REPRESENT
A DETAILED FIELD SURVEY. THE EXISTING CONDITIONS SHOWN ON
THIS PLAN SHEET ARE BASED UPON SURVEY PREPARED BY CIVIL
DESIGN ADVANTAGE DATED 6/3/2014 AND DSM05, DSM06, AND
DSM07 DESIGN DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR
VERIFYING FIELD CONDITIONS PRIOR TO BIDDING THE PROPOSED
SITEWORK IMPROVEMENTS. IF CONFLICTS ARE DISCOVERED, THE
CONTRACTOR SHALL NOTIFY THE OWNER PRIOR TO INSTALLATION OF
ANY PORTION OF THE SITEWORK WHICH WOULD BE AFFECTED. IF
CONTRACTOR DOES NOT ACCEPT EXISTING SURVEY, INCLUDING
TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, HE
SHALL HAVE MADE, AT HIS/HER OWN EXPENSE, A TOPOGRAPHIC
SURVEY BY A REGISTERED LAND SURVEYOR AND SUBMIT IT TO THE
OWNER FOR REVIEW.
- CAUTION - NOTICE TO CONTRACTOR**
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION
OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON
RECORDS OF THE VARIOUS UTILITY COMPANIES, PRIOR PHASE
DESIGN INFORMATION AND, WHERE POSSIBLE, MEASUREMENTS TAKEN
IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING
EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE
APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY
EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT
SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE
ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED
IMPROVEMENTS SHOWN ON THESE PLANS.

SITE AREA DATA

EXISTING :	IMPERVIOUS	2.05 ACRES (89,350 SF)
	PERVIOUS	158.65 ACRES (6,910,810 SF)
		(98.7%)
PROPOSED:	IMPERVIOUS	101.60 ACRES (4,425,696 SF)
	PERVIOUS	59.10 ACRES (2,574,396 SF)
		(30.6%)
TOTAL LAND AREA (LOT 1)		160.70 ACRES (7,000,160 SF)
DSM05 AREA		67.54 ACRES (2,994,012 SF)
		(42.0%)
DSM06 AREA		14.36 ACRES (625,427 SF)
		(8.9%)
DSM07 AREA		15.78 ACRES (688,284 SF)
		(9.8%)
DSM08 AREA		15.52 ACRES (678,030 SF)
		(9.7%)
OPEN SPACE AREA: REQUIRED		32.14 ACRES (1,400,018 SF)
	PROVIDED	47.52 ACRES (1,793,365 SF)
		(29.6%)

BUILDING DATA

DSM08.AZA & DSM08.AZB	142,285 SF
DSM08.AZC & DSM08.AZD	142,285 SF

SITE DATA

EXISTING COMPREHENSIVE PLAN	LIGHT INDUSTRIAL
PROPOSED COMPREHENSIVE PLAN	LIGHT INDUSTRIAL
EXISTING ZONING	LIGHT INDUSTRIAL
PROPOSED ZONING	LIGHT INDUSTRIAL
SURROUNDING LAND USES:	
NORTH:	EXISTING LAND USE MILLOW CREEK GOLF COURSE OPEN SPACE OPEN SPACE
EAST:	EXISTING LAND USE AGRICULTURAL CITY OF DSM CITY OF DSM
SOUTH:	EXISTING LAND USE IOWA-5 FREEWAY UNZONED IOWA 5 FREEWAY
WEST:	CURRENT LAND USE NONE UNZONED NONE

SHEET INDEX

C-A-01	CIVIL COVER SHEET
C-B-01	CIVIL BASE CONDITIONS MAP
C-B-02	CIVIL DEMOLITION AND TESC PLAN
C-C1-01	CIVIL SITE IMPROVEMENTS PLAN OVERALL
C-C1-A03	CIVIL SITE IMPROVEMENTS PLAN
C-C1-A04	CIVIL SITE IMPROVEMENTS PLAN
C-C2-A05	CIVIL SITE IMPROVEMENTS PLAN
C-C1-B03	CIVIL SITE IMPROVEMENTS PLAN
C-C1-B04	CIVIL SITE IMPROVEMENTS PLAN
C-C2-01	CIVIL HORIZONTAL CONTROL PLAN OVERALL
C-C2-A03	CIVIL HORIZONTAL CONTROL PLAN
C-C2-A04	CIVIL HORIZONTAL CONTROL PLAN
C-C2-A05	CIVIL HORIZONTAL CONTROL PLAN
C-C2-B03	CIVIL HORIZONTAL CONTROL PLAN
C-C2-B04	CIVIL HORIZONTAL CONTROL PLAN
C-D1-01	CIVIL SITE GRADING AND DRAINAGE PLAN OVERALL
C-D1-A03	CIVIL SITE GRADING AND DRAINAGE PLAN
C-D1-A04	CIVIL SITE GRADING AND DRAINAGE PLAN
C-D1-A05	CIVIL SITE GRADING AND DRAINAGE PLAN
C-D1-B03	CIVIL SITE GRADING AND DRAINAGE PLAN
C-D1-B04	CIVIL SITE GRADING AND DRAINAGE PLAN
C-D2-A03	CIVIL FINISHED GRADING PLAN
C-D2-A04	CIVIL FINISHED GRADING PLAN
C-D2-A05	CIVIL FINISHED GRADING PLAN
C-D2-B03	CIVIL FINISHED GRADING PLAN
C-D2-B04	CIVIL FINISHED GRADING PLAN
C-D3-01	CIVIL TELECOM TRENCH DRAINAGE PLAN
C-E1-01	CIVIL WATER PLAN OVERALL
C-E1-02	CIVIL WATER VERTICAL BEND SECTIONS
C-E1-A03	CIVIL WATER AND SEWER PLAN
C-E1-A04	CIVIL WATER AND SEWER PLAN
C-E1-B03	CIVIL WATER AND SEWER PLAN
C-E1-B04	CIVIL WATER AND SEWER PLAN
C-F-01	CIVIL TESC DETAILS
C-F-02	CIVIL MISCELLANEOUS DETAILS
C-F-03	CIVIL MISCELLANEOUS DETAILS
C-F-04	CIVIL DRAINAGE DETAILS
C-F-05	CIVIL DRAINAGE DETAILS
C-F-06	CIVIL DRAINAGE DETAILS
C-F-07	CIVIL WATER DETAILS
C-F-08	CIVIL WATER DETAILS
C-F-09	CIVIL SEWER DETAILS
C-F-10	CIVIL SEWER DETAILS
C-F-11	CIVIL TELECOM TRENCH DRAINAGE DETAILS



Know what's below.
Call before you dig.

CITY OF WEST DES MOINES
APPROVED BY: _____ DATE: _____

I HEREBY CERTIFY THAT THIS ENGINEERING
DOCUMENT WAS PREPARED BY ME OR UNDER MY
DIRECT PERSONAL SUPERVISION AND THAT I AM A
FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE
LAWS OF THE STATE OF IOWA.
Paul Jeffrey Manzer 7/21/15
LICENSE NUMBER: 10895
MY LICENSE EXPIRES ON: 12/31/2015
PAGES OR SHEETS COVERED BY THIS SEAL:
APPLIES TO CIVIL SHEETS NOTED ABOVE

IOWA ONE CALL AT 811 OR
1-800-292-8989
CONTRACTORS WEB TICKET ENTRY



**DSM08
 DATA CENTER**
 550 SE WHITE CRANE ROAD
 WEST DES MOINES, IA 50265

Design Team

Design	2015
Issue	000
Checked	2015
Date	16.AUG.2015
Page Project No.	1.0000.02
S.A. Project No.	P_1005

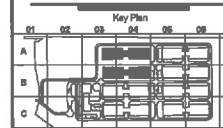
Approvals

Client	MICROSOFT	Site
Microsoft Mechanical Engineer	PETER YAMASHITA	Site
Microsoft Civil Engineer	ERIC BERNI	Site
Microsoft Structural Engineer	STEVE STEINERT	Site
Engineering Manager	ANDREW TAYLOR	Site
Structural Designer	ERIC YANEZ	Site
Architect	RICK HANDE	Site
Site Design Lead	JARON WILBERT PAGE	Site
Architectural Lead	BRYAN NAVYWOOD PAGE	Site
Structural Engineering Lead	STEVE PISCORIS PAULAND	Site
Structural Engineering Lead	DAVID BROWN PAGE	Site
Structural Engineering Lead	CHRISTOPHER BROWN PAGE	Site
Structural Engineering Lead	JOHN COURTES PAGE	Site
Structural Lead	ANDY BAXTER PAGE	Site
Structural Lead	WATE ELLIS SPWALING	Site
Structural Lead	PETE BREITZEL ADD	Site

Revisions

No.	Date	Description
1	2015.07.24	100% IFC

Registration



By Code
 CONFIDENTIAL - TRADE SECRET - DO NOT DISCLOSE
 This information constitutes confidential proprietary "trade secret" as defined in the Iowa Uniform Trade Secrets Act and is provided pursuant to a promise of confidentiality.

**BUILDING
 NOMENCLATURE
 PLAN**

G-A-05

GENERAL NOTES (BUILDING NOMENCLATURE PLAN)

- THIS SHEET IS INTENDED TO CONVEY THE FULL BUILD-OUT SITEWIDE STRATEGY FOR BUILDING SUPPORT MARKING ONLY.
- THIS DRAWING INCLUDES PHASE 4 CONSTRUCTION AS WELL AS PREVIOUS PHASES. PREVIOUS PHASES ARE SHOWN ORGANOMATICALLY.
- REFER TO THE REST OF THIS SET FOR SPECIFIC INFORMATION RELATED TO THE CONSTRUCTION OF PHASE 4.
- THE FULL SITE BUILD-OUT CONSISTS OF (1) ADMINISTRATION BUILDING. THIS BUILDING IS CONSTRUCTED IN PHASE 1.
- THE FULL SITE BUILD-OUT CONSISTS OF (4) CHR BUILDINGS, LETTERED A THROUGH D. ALL CHR BUILDINGS ARE CONSTRUCTED IN PHASE 1.
- THE FULL SITE BUILD-OUT CONSISTS OF (4) AZ SETS, NUMBERED 1 THROUGH 4. AZ SET 4 IS INCLUDED WITH PHASE 4 CONSTRUCTION. DAMAGE SET CONTAINS (4) AZS, LETTERED A, B, C, OR D AND (4) AZ SUPPORT BUILDINGS, NUMBERED A OR B. SBA IS ALWAYS BETWEEN AZS A & B. SBB IS ALWAYS BETWEEN AZS C & D. THE SUPPORT BUILDINGS IN AZ SET 4 ARE CONSTRUCTED WITH PHASE 4 CONSTRUCTION.
- DAMAGE IS DIVIDED IN TO (4) CELLS, NUMBERED 1 THROUGH 4. EACH CELL IS DIVIDED IN TO (2) MZs. EACH MZ IS LETTERED EITHER A OR B. REFER TO THE DIAGRAM ON THIS SHEET FOR ADDITIONAL DETAIL. NOTE: THE CELL AND MZ DESIGNATIONS ARE FOR PURPOSES OF EQUIPMENT MARKING AND OPERATIONAL DESIGNATIONS ONLY. THERE ARE NO PHYSICAL SEPARATIONS BETWEEN CELLS AND/OR MZs.
- AREAS SHOWN ON SITE AS "FUTURE UNPROGRAMMED SPACE" ARE AREAS DESIGNATED FOR POTENTIAL FUTURE USE. NO BUILDING CONSTRUCTION IS INCLUDED IN ANY OF THESE AREAS FOR PHASE 4.

BUILDING NOMENCLATURE LEGEND

BUILDING DESIGNATIONS:
 AS = AVAILABILITY SET (AKA AZ SET), (4) PER FULLY BUILT-OUT SITE, NUMBERED 1, 2, 3, OR 4

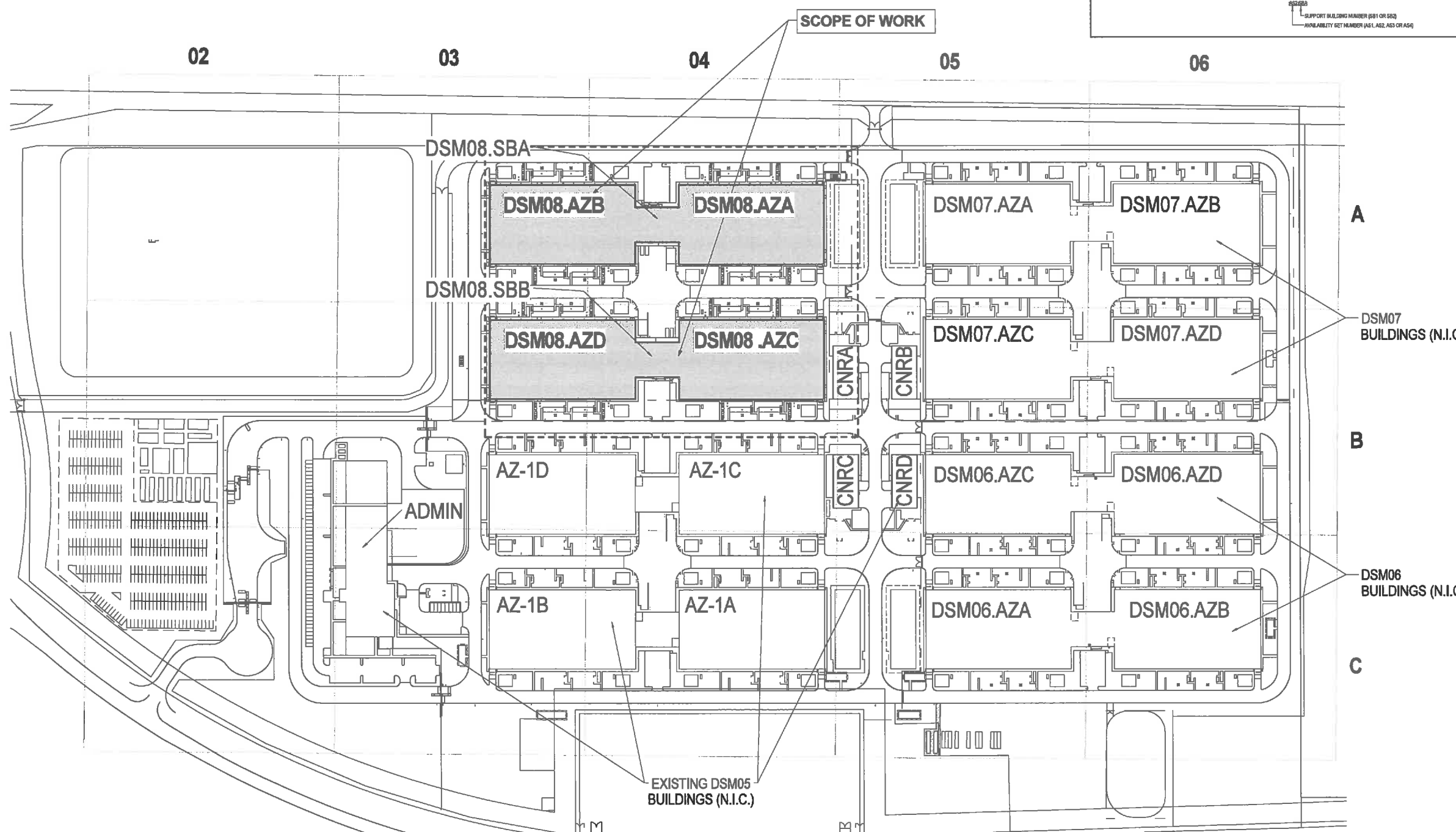
BUILDINGS:
 AS = ADMINISTRATION BUILDING (AKA ADMIN BUILDING), 1 PER FULLY BUILT-OUT SITE
 AZ = AVAILABILITY ZONE (AKA AZ BUILDING), 4 PER AVAILABILITY SET, LETTERED A, B, C, OR D
 CR = CORE NETWORK ROOM (AKA CHR BUILDING), 4 PER FULLY BUILT-OUT SITE, LETTERED A, B, C, OR D
 SB = SUPPORT BUILDING (AKA AZ SUPPORT BUILDING), 2 PER AVAILABILITY SET, NUMBERED A OR B
 TL = TOWER LIFTWAY (NOT INCLUDED IN PHASE 4 PROJECT SCOPE)
 WH = WAREHOUSE (NOT INCLUDED IN PHASE 4 PROJECT SCOPE)

AREA DESIGNATIONS WITHIN BUILDINGS:
 CE = CELL, 4 PER AZ, NUMBERED 1, 2, 3, OR 4
 MZ = MAINTENANCE ZONE, 2 PER CELL, LETTERED A OR B

TYPICAL NAMING CONVENTION EXAMPLES

DSM08
 AZ LETTER (AZA, AZB, AZC OR AZD)
 AVAILABILITY SET NUMBER (AS1, AS2, AS3 OR AS4)

DSM08
 SUPPORT BUILDING NUMBER (SB1 OR SB2)
 AVAILABILITY SET NUMBER (AS1, AS2, AS3 OR AS4)



1 BUILDING NOMENCLATURE PLAN
 SCALE: 1" = 100'-0"

Page Architectural Page, Inc.
 400 W. Clear Creek Blvd 5th Floor
 Austin, TX 78701
 512.472.6721
 512.477.5211
 www.pagearchitect.com
 Austin / Dallas / Denver / Houston, Washington DC / International Affiliate Offices



DSM 08 DATA CENTER

550 SE WHITE CRANE ROAD
WEST DES MOINES, IA 50265

Design Team	
Design	L. PALMER / J. ALBERTSON
Drawn	J. ALBERTSON
Checked	T. J. MANN
Date	10 SEPTEMBER 2008
PROJECT	550 SE WHITE CRANE RD.
SHEET NO.	C-C1-01
Approvals	
Client	MICROSOFT
Client Representative	FEELER WANDA
Client Contact Person	BRAD BEAL
Client Contact Title	STEVE EITNER
Client Contact Phone	ANDREW TAYLOR
Client Contact Email	BRAD.BEAL@MICROSOFT.COM
Client Contact Address	550 SE WHITE CRANE RD
Client Contact City	WEST DES MOINES, IA
Client Contact State	IA
Client Contact Zip	50265
Client Contact Country	USA
Client Contact Fax	
Client Contact F1	
Client Contact F2	
Client Contact F3	
Client Contact F4	
Client Contact F5	
Client Contact F6	
Client Contact F7	
Client Contact F8	
Client Contact F9	
Client Contact F10	
Client Contact F11	
Client Contact F12	
Client Contact F13	
Client Contact F14	
Client Contact F15	
Client Contact F16	
Client Contact F17	
Client Contact F18	
Client Contact F19	
Client Contact F20	
Client Contact F21	
Client Contact F22	
Client Contact F23	
Client Contact F24	
Client Contact F25	
Client Contact F26	
Client Contact F27	
Client Contact F28	
Client Contact F29	
Client Contact F30	
Client Contact F31	
Client Contact F32	
Client Contact F33	
Client Contact F34	
Client Contact F35	
Client Contact F36	
Client Contact F37	
Client Contact F38	
Client Contact F39	
Client Contact F40	
Client Contact F41	
Client Contact F42	
Client Contact F43	
Client Contact F44	
Client Contact F45	
Client Contact F46	
Client Contact F47	
Client Contact F48	
Client Contact F49	
Client Contact F50	



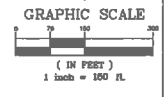
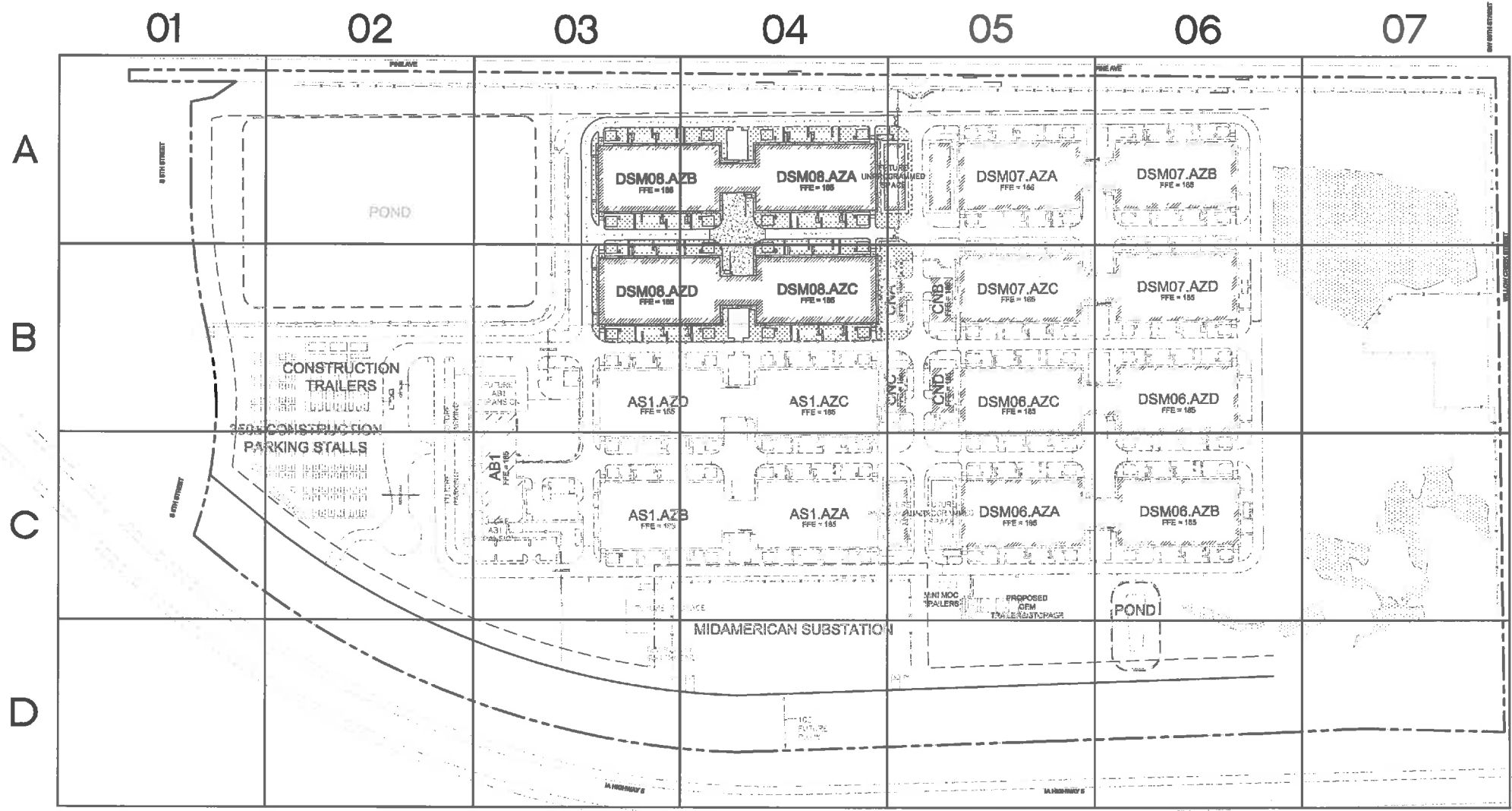
Key Plan

Confidential - Trade Secret - Do Not Disclose
 This information constitutes confidential proprietary "trade secret" as defined in the Iowa Uniform Trade Secret Act and is provided pursuant to a written confidentiality agreement.

Sheet Title/Number

CIVIL SITE IMPROVEMENTS PLAN OVERALL

C-C1-01



CITY OF WEST DES MOINES NOTES

- ALL CONNECTIONS TO PUBLIC SEWERS SHALL BE CORE DRILLED TO MANHOLES.
- ALL CONSTRUCTION WITHIN PUBLIC R.O.W./EASEMENTS, AND/OR ANY CONNECTION TO PUBLIC SEWERS AND STREETS, SHALL COMPLY WITH THE WEST DES MOINES STANDARD CONSTRUCTION SPECIFICATION FOR SUBDIVISIONS.
- AT LEAST ONE WEEK PRIOR TO ANY CONSTRUCTION WITHIN PUBLIC R.O.W./ EASEMENTS AND/ OR ANY CONNECTION TO PUBLIC SEWERS AND STREETS, THE CONTRACTOR SHALL CONTACT THE WDM CONSTRUCTION DIVISION 'CLINT CARPENTER' (515-222-3480) TO OBTAIN APPLICABLE CITY PERMITS THAT MAY BE NECESSARY.

GENERAL NOTES

- DIMENSIONS AND COORDINATES ARE TO FACE OF CURB (TYP).
- UTILITY INSTALLATION INCLUDES TRENCHING, PIPE BEDDING AND BACKFILL, REINSTATE SURFACE TO ORIGINAL CONDITION UNLESS NOTED OTHERWISE ON SITE IMPROVEMENTS PLAN.
- PROVIDE THRUST BLOCKS/JOINT RESTRAINTS ON ALL PRESSURIZED LINES. SEE DETAIL 4/C-F-11 FOR JOINT RESTRAINTS.
- FIELD VERIFY LIMITS OF DEMOLITION & LOCATION OF UTILITIES TO BE REMOVED.
- FIELD VERIFY CONNECTION POINTS TO EXISTING UTILITIES. NOTIFY ENGINEER OF DISCREPANCIES.
- EXISTING GRADES SHOWN ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED.
- CONTRACTOR RESPONSIBLE TO MAINTAIN POSITIVE DRAINAGE TO STORM DRAIN SYSTEM UNTIL PERMANENT STORM DRAIN SYSTEM IS INSTALLED.
- TELECOM, ELECTRICAL & LSS SHOWN FOR REFERENCE ONLY. FIELD VERIFY LOCATIONS PRIOR TO EXCAVATION.
- ADJUST UTILITY STRUCTURES (PVS, HYDRANTS, MH'S, CB'S, VAULTS ETC) TO FINISH GRADE WHEN COMPLETING FINAL GRADING, ELECTRICAL AND TELECOM VAULTS TO BE ADJUSTED TO FINISHED GRADE WITH GRADE RINGS.
- UNLESS OTHERWISE DIRECTED BY THE OWNER OR BY THE A/E, THE CONTRACTOR SHALL REPLACE, IN KIND, ALL BASE, AC PAVING, CONCRETE CURBS, GUTTERS AND SIDEWALKS, UTILITIES, LANDSCAPING, AND IRRIGATION LINES, NOT INTENDED FOR DEMOLITION, BUT WHICH HAVE BEEN REMOVED OR DISTURBED AS A RESULT OF DEMOLITION ACTIVITIES.
- WHERE DEMOLITION OCCURS AND NO SPECIFIC INSTRUCTIONS ARE MADE CONCERNING NEW OR REPLACEMENT FEATURES, THE CONTRACTOR SHALL RESTORE THE AREA TO A FINISHED CONDITION USING MATERIALS MATCHING THOSE ADJACENT TO THE REMOVAL SITE, MAKING SURE PROPER DRAINAGE AND APPEARANCE IS ATTAINED.
- COORDINATE INSTALLATION OF ELECTRICAL GROUNDING GRID AT SITE & BLDG SLABS, FENCINGS AND WALLS WITH ELECTRICAL DRAWINGS.
- SEE ELECTRICAL PLANS FOR SITE LIGHTING.

NOTES (PAULAND)

- ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY/COUNTY REGULATIONS AND CODES AND O.S.H.A. STANDARDS.
- CAUTION - NOTICE TO CONTRACTOR** THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES AND EXISTING IMPROVEMENTS WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS ON THE PLANS.
- CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND DIMENSIONS OF OUTDOOR UTILITY YARD, EXT PORCHES, SIDEWALKS, RAMPS & TRUCK DOCKS, PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.
- DIMENSIONS SHOWN REFER TO FACE OF CURB, TOP OF PAVEMENT, BUILDING GRID LINES OR TO THE CENTERLINE OF PAVEMENT STRIPING, UNLESS OTHERWISE NOTED.
- ALL PAVED PARKING LOT AREAS WITHIN THE LIMITS OF IMPROVEMENTS SHALL BE STANDARD DUTY PAVEMENT UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL PROVIDE A TEMPORARY TRAFFIC CONTROL PLAN FOR THE CITY ENGINEER'S APPROVAL PRIOR TO ANY WORK WITHIN THE CITY RIGHT-OF-WAY. TEMPORARY TRAFFIC CONTROL REQUIRED WITHIN THE MICROSOFT PROPERTY SHALL BE PROVIDED TO MICROSOFT DSM OPERATIONS MANAGER PRIOR TO ANY WORK.
- REFER TO WILLOW CREEK PLAT I FOR LEGAL DESCRIPTION, DIMENSIONS OF PROPERTY LINES, BASIS OF BEARINGS & BENCHMARK INFORMATION.
- ALL ON-SITE PAINTED STRIPING SHALL BE THERMOPLASTIC. (CONTRACTOR TO REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL PAVING MARKING REQUIREMENTS.)
- PARKING LOT STRIPING SHALL BE WHITE, 4" WIDE & THERMOPLASTIC, UNLESS OTHERWISE NOTED. LIGHT POLE BASES TO BE PAINTED TRAFFIC YELLOW (DOUBLE COAT)
- EXISTING STRUCTURES WITHIN CONSTRUCTION LIMITS ARE TO BE ABANDONED, REMOVED OR RELOCATED AS NECESSARY OR AS SHOWN ON C-B-02. ALL COST SHALL BE INCLUDED IN BASE BID.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, ETC. AS REQUIRED. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING AUTHORITIES SPECIFICATIONS AND SHALL BE APPROVED BY SUCH. ALL COST SHALL BE INCLUDED IN BASE BID.
- CURB RADI ADJACENT TO PARKING STALLS SHALL BE 3'. ALL OTHER CURB RADI SHALL BE 10', UNLESS OTHERWISE NOTED.
- ALL INTERNAL DRIVES, INCLUDING THE GRAVEL DRIVE CONNECTION SHALL BE CONSTRUCTED TO ACCOMMODATE 75,000 LBS. G.V.W. ALL PAVED SURFACES SHALL BE MAINTAINED 365 DAYS A YEAR, INCLUDING THE PLOWING OF SNOW.



CITY OF WEST DES MOINES
 APPROVED BY: _____ DATE: _____



**DSM 08
DATA CENTER**
550 SE WHITE CRANE ROAD
WEST DES MOINES, IA 50265

Design Team

Design	L. PETERSON / L. ALLEN
Drawn	J. HARRIS
Checked	T. BARNHART
Date	10/20/2010
PROJECT NUMBER	50265
S.E. Project No.	A-008

Approvals

Client	MICROSOFT
Technical Director	PETER WANG
Technical Engineer	ERIC SEAL
Technical Drafter	STEVE STEINERT
Engineering Manager	ANDREW TAYLOR
Quality Manager	BRUCE YAMET
Site	ROCK TOWER
Site Team Lead	DERSON TEAM
Site Team	JASON GILBERT PAGE
Site Team	BRYAN HAYWOOD PAGE
Site Team	STEVE PERCEC PAGE
Site Team	CHAD BROCK PAGE
Site Team	CHRISTOPHER PAGE
Site Team	JOSH CURTIS PAGE
Site Team	ANDY BAXTER PAGE
Site Team	MATE ELLM SPARLING
Site Team	PETE BRITZKE/ARG

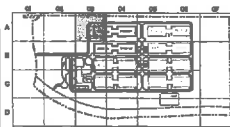
Revisions

No.	Date	Description
1	2010.07.24	100% RFD

Registration



Key Plan



Bar Code

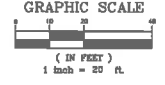
CONFIDENTIAL - TRADE SECRET - DO NOT DISCLOSE
This information constitutes confidential proprietary "trade secrets" as defined in the Iowa Uniform Trade Secrets Act and is provided pursuant to a promise of confidentiality.

Sheet Title Number

**CIVIL
SITE IMPROVEMENTS
PLAN**

CITY OF WEST DES MOINES
APPROVED BY: _____ DATE: _____

C-C1-A03



LEGEND

- PROPERTY LINE
- PROPOSED BUILDING
- PROPOSED CURB
- SECURITY FENCE
- TEMPORARY CHAINLINK FENCE
- PERMANENT CHAINLINK FENCE
- HEAVY DUTY ASPHALT PAVEMENT
- STANDARD DUTY ASPHALT PAVEMENT
- CONCRETE PAVEMENT
- CONCRETE SIDEWALK
- GRAVEL ROAD
- LANDSCAPING
- PIPE BOLLARD
- FIRE HYDRANT
- VEHICULAR DIRECTIONAL SIGN
- ELECTRICAL OVERHEAD FOUNDATION

SITE KEY

- ① CONNECT TO EXISTING CONCRETE CURB, FIELD VERIFY
- ② 6" STANDARD CONCRETE CURB (TYP)
- ③ CONCRETE PAVEMENT (TYP)
- ④ HEAVY-DUTY ASPHALT PAVEMENT (TYP)
- ⑤ LIGHT-DUTY ASPHALT PAVEMENT (TYP)
- ⑥ HEAVY TO LIGHT DUTY AC TRANSITION, SAND AND SEAL (TYP)
- ⑦ ASPHALT-CONCRETE PAVEMENT TRANSITION
- ⑧ CONCRETE SIDEWALK (TYP)
- ⑨ GRAVEL ROAD (TYP)
- ⑩ 6" FLUSH VERTICAL CURB W/ 4" WIDE STRIPING
- ⑪ ADA STALL (TYP)
- ⑫ SIDEWALK RAMP (TYP)
- ⑬ 4" WIDE, SOLID WHITE THERMOPLASTIC STRIPE (TYP)
- ⑭ 4" WIDE STRIPING AT 45°, 36" O.C. (TYP)
- ⑮ PIPE BOLLARD (QUANTITIES SHOWN IN PARENTHESES) (SEE ARCHITECTURAL PLANS FOR LOCATIONS)
- ⑯ STOP BAR (TYP)
- ⑰ STOP SIGN PER MUTCD R10-6
- ⑱ SPEED LIMIT SIGN PER MUTCD R2-1
- ⑲ TYPE III BARRICADE (TYP)
- ⑳ SAWCUT AND MATCH EDGE OF EXISTING ASPHALT PAVEMENT SAND AND SEAL (TYP)
- ㉑ CONCRETE RIBBON DRAIN (SEE DRAINAGE PLAN)
- ㉒ JERSEY BARRIER (TYP)
- ㉓ ECOLOGY BLOCK 2'x2'x6" (TYP)
- ㉔ PLASTIBETON TELECOM TRENCH (TYP) (SEE TELECOM PLANS)
- ㉕ STANDARD TO BARRIER CURB TRANSITION

SITE FEATURES (BY OTHERS)

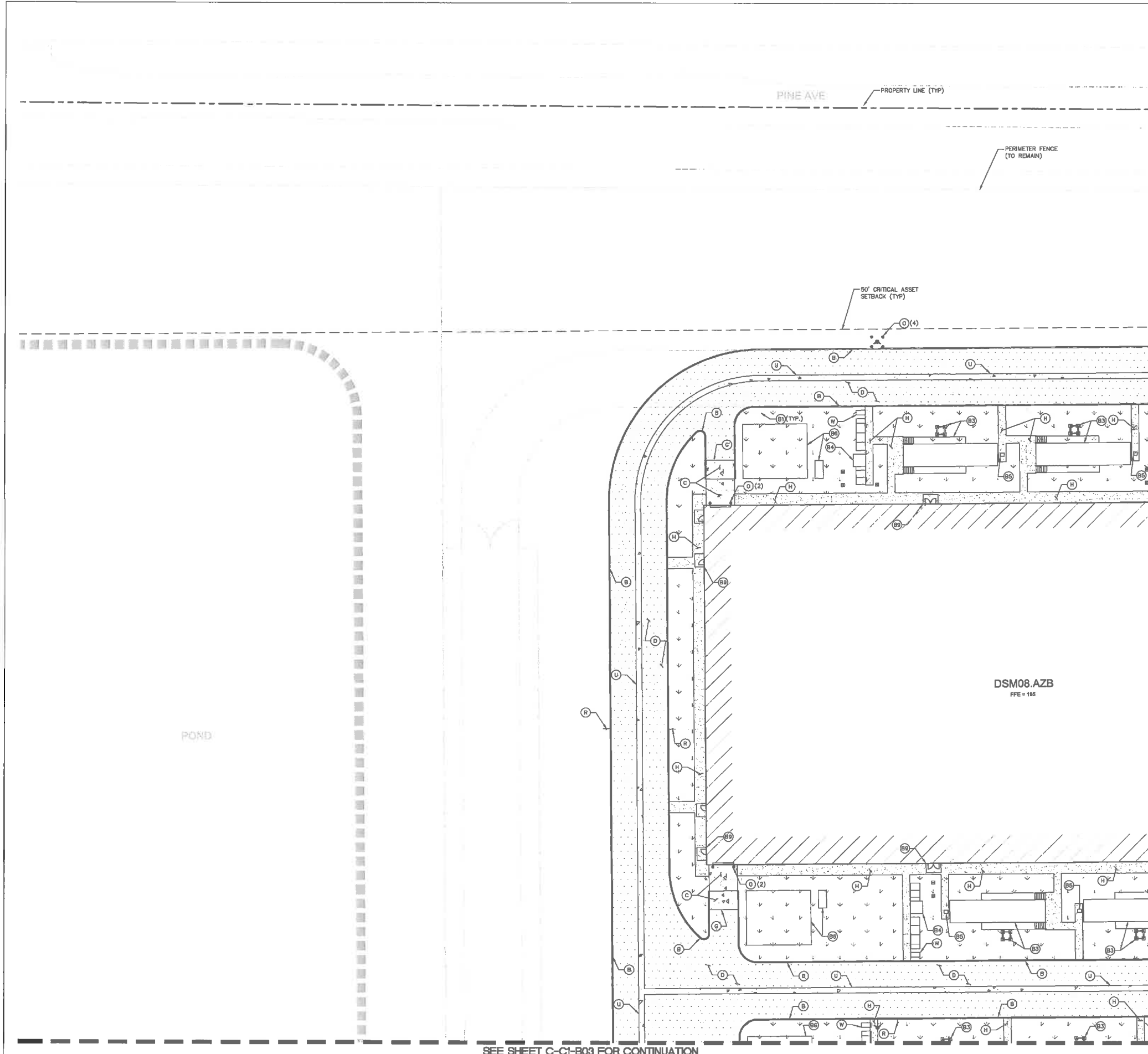
- ⑳ SITE LIGHTING (SEE ELECTRICAL PLANS)
- ㉖ CAST IN PLACE CONCRETE WALL (SEE STRUCTURAL PLANS)
- ㉗ GENERATOR (TYP) (SEE ELECTRICAL PLANS)
- ㉘ ELECTRICAL EQUIPMENT (TYP) (SEE ELECTRICAL PLANS)
- ㉙ FUEL PAD (TYP) (SEE STRUCTURAL PLANS)
- ㉚ PUMP HOUSE/COOLING TOWER (TYP) (SEE ARCHITECTURAL/MECHANICAL PLANS)
- ㉛ STAIRS (TYP) (SEE ARCHITECTURAL PLANS)
- ㉜ COMPACTOR (TYP) (SEE ARCHITECTURAL PLANS)
- ㉝ DOOR STOP (TYP) (SEE STRUCTURAL PLANS)
- ㉞ KNOX BOX (TYP) (SEE STRUCTURAL PLANS)

FENCING KEY

- ① 6' TALL, GALVANIZED CHAIN LINK FENCE (NO BARBED WIRE)
- ② FENCE SIGNAGE, MAXIMUM SPACING 150', CENTER ON FENCE PANELS, CONTRACTOR TO SUBMIT PROPOSED LOCATIONS TO MICROSOFT SECURITY FOR APPROVAL PRIOR TO INSTALLATION
- ③ 6' TALL CHAIN LINK, DOUBLE SWING GATE, 30' WIDE CLEAR OPENING
- ④ 3' WIDE CHAIN LINK PEDESTRIAN GATE
- ⑤ KNOX BOX (SEE SECURITY PLANS FOR DETAIL)
- ⑥ 6' TALL TEMPORARY CHAIN LINK FENCE WITH PIER BLOCKS



CITY OF WEST DES MOINES
APPROVED BY: _____ DATE: _____



SEE SHEET C-C1-B03 FOR CONTINUATION



DSM 08 DATA CENTER

550 SE WHITE CRANE ROAD
WEST DES MOINES, IA 50265

Design Team

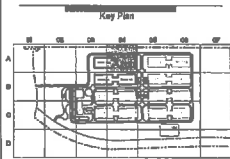
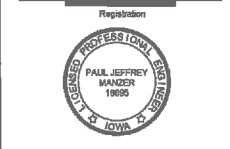
Owner	L. HUBER / L. ALLEN
Architect	L. HUBER
Checker	T. BURMAN
Date	10 SEPTEMBER 2010
Project No.	5500000000
Scale	AS SHOWN

Approvals

Microsoft	DATE
Microsoft Engineer	PETER WANGSA
Microsoft Engineer	ERIC SEAL
Microsoft Engineer	STEVE STERNBERG
Microsoft Engineer	ANDREW TAYLOR
Microsoft Engineer	ERIC YAMIC
Microsoft Engineer	ROCK WAGE

DESIGN TEAM

Architect	JASON GILBERT PAGE
Architect	BRYAN HAYWOOD PAGE
Architect	STEVE PERCIPACIAND
Architect	DAVID BROWN PIR
Architect	CAMERON BROWN PAGE
Architect	JEREMY PAGE
Architect	ANDY BARTON PAGE
Architect	MATTHEW SPURLING
Architect	PETE BRETZIGARD

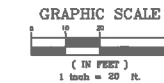


Star Code
CONFIDENTIAL - TRADE SECRET - DO NOT LEND OR
This information contains confidential proprietary "trade
secret" as defined in the Iowa Uniform Trade Secret Act and is
provided pursuant to a purchase of confidentiality.

Sheet Title/Number

CIVIL SITE IMPROVEMENTS PLAN

C-C1-A04



LEGEND

- PROPERTY LINE
- PROPOSED BUILDING
- PROPOSED CURB
- SECURITY FENCE
- TEMPORARY CHAINLINK FENCE
- PERMANENT CHAINLINK FENCE
- HEAVY DUTY ASPHALT PAVEMENT
- STANDARD DUTY ASPHALT PAVEMENT
- CONCRETE PAVEMENT
- CONCRETE SIDEWALK
- GRAVEL ROAD
- LANDSCAPING
- PIPE BOLLARD
- FIRE HYDRANT
- VEHICULAR DIRECTIONAL SIGN
- ELECTRICAL OVERHEAD FOUNDATION

SITE KEY

- (A) CONNECT TO EXISTING CONCRETE CURB, FIELD VERIFY
- (B) 6" STANDARD CONCRETE CURB (TYP)
- (C) CONCRETE PAVEMENT (TYP)
- (D) HEAVY-DUTY ASPHALT PAVEMENT (TYP)
- (E) LIGHT-DUTY ASPHALT PAVEMENT (TYP)
- (F) HEAVY TO LIGHT DUTY AC TRANSITION, SAND AND SEAL (TYP)
- (G) ASPHALT-CONCRETE PAVEMENT TRANSITION
- (H) CONCRETE SIDEWALK (TYP)
- (I) GRAVEL ROAD (TYP)
- (J) 6" FLUSH VERTICAL CURB W/ 4" WIDE STRIPING
- (K) ADA STALL (TYP)
- (L) SIDEWALK RAMP (TYP)
- (M) 4" WIDE, SOLID WHITE THERMOPLASTIC STRIPE (TYP)
- (N) 4" WIDE STRIPING AT 45, 36" O.C. (TYP)
- (O) PIPE BOLLARD (QUANTITIES SHOWN IN PARENTHESES)
(SEE ARCHITECTURAL PLANS FOR LOCATIONS)
- (P) STOP BAR (TYP)
- (Q) STOP SIGN PER MUTCD R10-6
- (R) SPEED LIMIT SIGN PER MUTCD R2-1
- (S) TYPE II BARRICADE (TYP)
- (T) SAWCUT AND MATCH EDGE OF EXISTING ASPHALT PAVEMENT
SAND AND SEAL (TYP)
- (U) CONCRETE RIBBON DRAIN (SEE DRAINAGE PLAN)
- (V) JERSEY BARRIER (TYP)
- (W) ECOLOGY BLOCK 2'x2'x6" (TYP)
- (X) PLASTIBETON TELECOM TRENCH (TYP) (SEE TELECOM PLANS)
- (Y) STANDARD TO BARRIER CURB TRANSITION

SITE FEATURES (BY OTHERS)

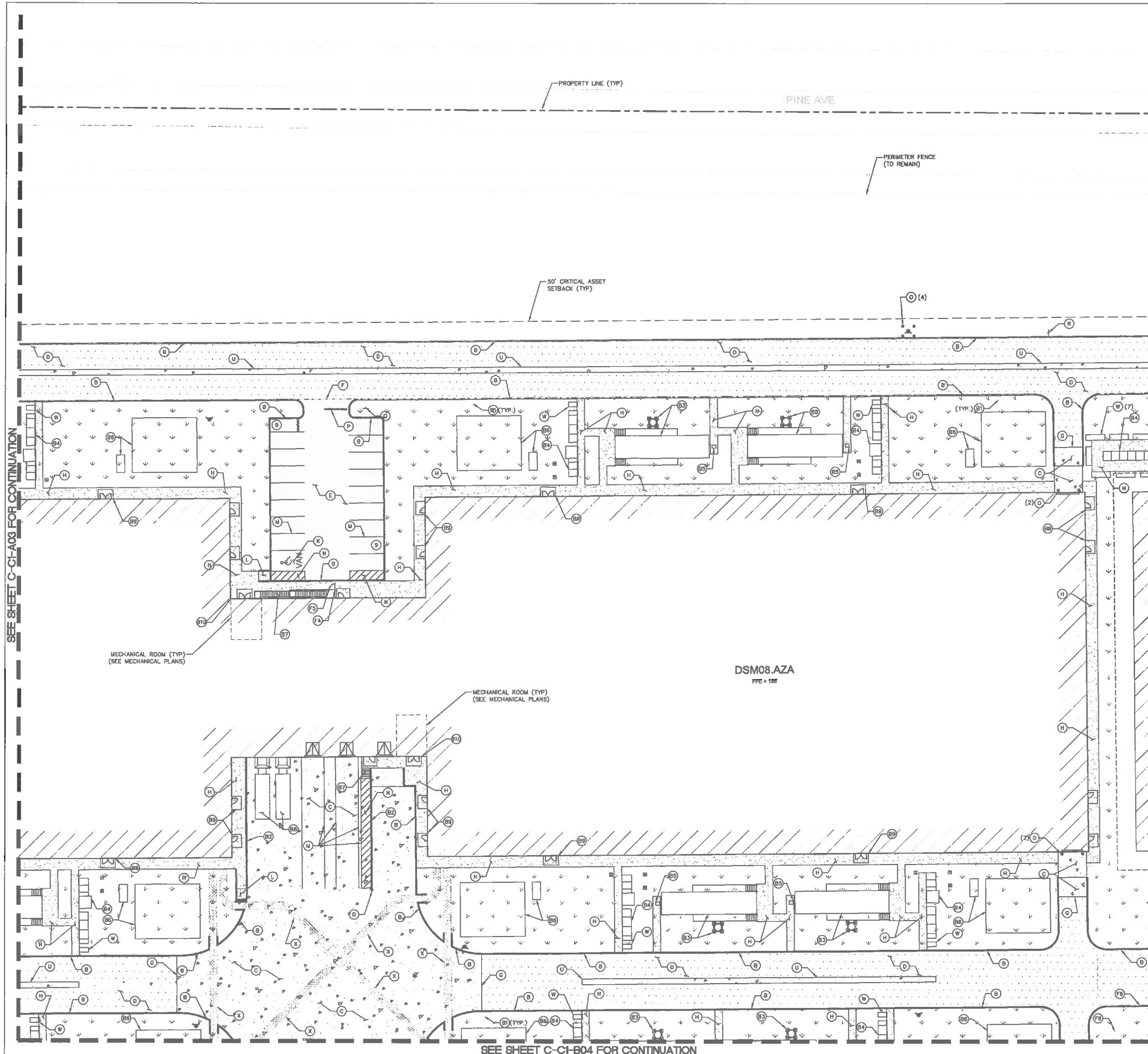
- (1) SITE LIGHTING (SEE ELECTRICAL PLANS)
- (2) CAST IN PLACE CONCRETE WALL (SEE STRUCTURAL PLANS)
- (3) GENERATOR (TYP) (SEE ELECTRICAL PLANS)
- (4) ELECTRICAL EQUIPMENT (TYP) (SEE ELECTRICAL PLANS)
- (5) FUEL PAD (TYP) (SEE STRUCTURAL PLANS)
- (6) PUMP HOUSE/COOLING TOWER (TYP)
(SEE ARCHITECTURAL/MECHANICAL PLANS)
- (7) STAIRS (TYP) (SEE ARCHITECTURAL PLANS)
- (8) COMPACTOR (TYP) (SEE ARCHITECTURAL PLANS)
- (9) DOOR STOOP (TYP) (SEE STRUCTURAL PLANS)
- (10) KNOX BOX (TYP) (SEE STRUCTURAL PLANS)

FENCING KEY

- (1) 6' TALL, GALVANIZED CHAIN LINK FENCE (NO BARBED WIRE)
- (2) FENCE SIGNAGE, MAXIMUM SPACING 150', CENTER ON FENCE
PANELS. CONTRACTOR TO SUBMIT PROPOSED LOCATIONS TO
MICROSOFT SECURITY FOR APPROVAL PRIOR TO INSTALLATION
- (3) 6' TALL CHAIN LINK, DOUBLE SWING GATE, 30' WIDE CLEAR
OPENING
- (4) 3' WIDE CHAIN LINK PEDESTRIAN GATE
- (5) KNOX BOX (SEE SECURITY PLANS FOR DETAIL)
- (6) 6' TALL TEMPORARY CHAIN LINK FENCE WITH PIER BLOCKS



CITY OF WEST DES MOINES
APPROVED BY: _____ DATE: _____



Page Southland Page, Inc.
400 W. Cesar Chavez Street 6th Floor
Austin, TX 78701
page@page.com
Tel: 512 472 8721
Fax: 512 472 8211
www.page.com



15000 20th St.
Suite 200
Bellevue, WA 98006
T: (206) 483-8888
F: (206) 483-8888
www.land.com

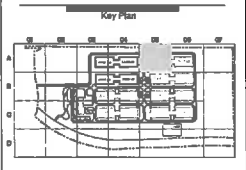
Microsoft
DSM 08
DATA CENTER
550 SE WHITE CRANE ROAD
WEST DES MOINES, IA 50265

Design Team	
Design	L. HANDEL / J. G. HANDEL
Drawn	J. HANDEL
Checked	T. HANDEL
Date	18 SEPTEMBER 2014
Project No.	1007000
Sheet No.	P-1000

Approvals	
Customer	MICROSOFT
Microsoft Representative	PETER VAN DER BEEK
Microsoft Civil Engineer	ERIC BEAL
Microsoft Electrical Engineer	STEVE STUBBINS
Engineering Manager	ANDREW TAYLOR
Quality Manager	ERIC HANDEL
City	ROSE HANDEL

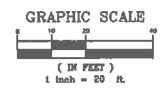
DESIGN TEAM	
Site Design Lead	JASON GILBERT PAGE
Structural Lead	BRYAN HAYWOOD PAGE
Site Engineering Lead	STEVE PERCIVAL PAGE
Structural Engineering Lead	DAVID BROWN PAGE
Electrical Engineering Lead	CAROLANN BROWN PAGE
MEP Engineering Lead	JOHN CLARKE PAGE
MEP Lead	ANDY BAXTER PAGE
MEP Lead	MATE CLUM SPARLING
MEP Lead	PETE BRETZKE PAGE

Revisions		
No.	Date	Description
1	2015.07.24	100% RFD



Confidential - Trade Secret - DO NOT DISCLOSE
This information constitutes confidential proprietary "trade secret" as defined in the Iowa Uniform Trade Secrets Act and is provided pursuant to a provision of confidentiality.
Sheet Title Number

CIVIL
SITE IMPROVEMENTS
PLAN
C-C1-A05



LEGEND

- PROPERTY LINE
- PROPOSED BUILDING
- PROPOSED CURB
- SECURITY FENCE
- TEMPORARY CHAINLINK FENCE
- PERMANENT CHAINLINK FENCE
- HEAVY DUTY ASPHALT PAVEMENT
- STANDARD DUTY ASPHALT PAVEMENT
- CONCRETE PAVEMENT
- CONCRETE SIDEWALK
- GRAVEL ROAD
- LANDSCAPING
- o PIPE BOLLARD
- FIRE HYDRANT
- VEHICULAR DIRECTIONAL SIGN
- ELECTRICAL OVERHEAD FOUNDATION

SITE KEY

- (A) CONNECT TO EXISTING CONCRETE CURB, FIELD VERIFY
- (B) 6" STANDARD CONCRETE CURB (TYP) 1/2-F-09
- (C) CONCRETE PAVEMENT (TYP) 1/2-F-09
- (D) HEAVY-DUTY ASPHALT PAVEMENT (TYP) 1/2-F-09
- (E) LIGHT-DUTY ASPHALT PAVEMENT (TYP) 1/2-F-09
- (F) HEAVY TO LIGHT DUTY AC TRANSITION, SAND AND SEAL (TYP) 1/2-F-09
- (G) ASPHALT-CONCRETE PAVEMENT TRANSITION 1/2-F-09
- (H) CONCRETE SIDEWALK (TYP) 1/2-F-09
- (I) GRAVEL ROAD (TYP) 1/2-F-09
- (J) 6" FLUSH VERTICAL CURB W/ 4" WIDE STRIPING 1/2-F-09
- (K) ADA STALL (TYP) 1/2-F-09
- (L) SIDEWALK RAMP (TYP) 1/2-F-09
- (M) 4" WIDE, SOLID WHITE THERMOPLASTIC STRIPE (TYP)
- (N) 4" WIDE STRIPING AT 45°, 36" O.C. (TYP)
- (O) PIPE BOLLARD (QUANTITIES SHOWN IN PARENTHESES) 10.11 1/2-F-09
(SEE ARCHITECTURAL PLANS FOR LOCATIONS)
- (P) STOP BAR (TYP) 1/2-F-09
- (Q) STOP SIGN PER MUTCD R10-6 1/2-F-09
- (R) SPEED LIMIT SIGN PER MUTCD R2-1 1/2-F-09
- (S) TYPE III BARRICADE (TYP) 1/2-F-09
- (T) SAWOUT AND MATCH EDGE OF EXISTING ASPHALT PAVEMENT SAND AND SEAL (TYP)
- (U) CONCRETE RIBBON DRAIN (SEE DRAINAGE PLAN) 1/2-F-09
- (V) JERSEY BARRIER (TYP)
- (W) ECOLOGY BLOCK 2'-x2'-x6" (TYP)
- (X) PLASTIBETON TELECOM TRENCH (TYP) (SEE TELECOM PLANS)
- (Y) STANDARD TO BARRIER CURB TRANSITION 1/2-F-09

SITE FEATURES (BY OTHERS)

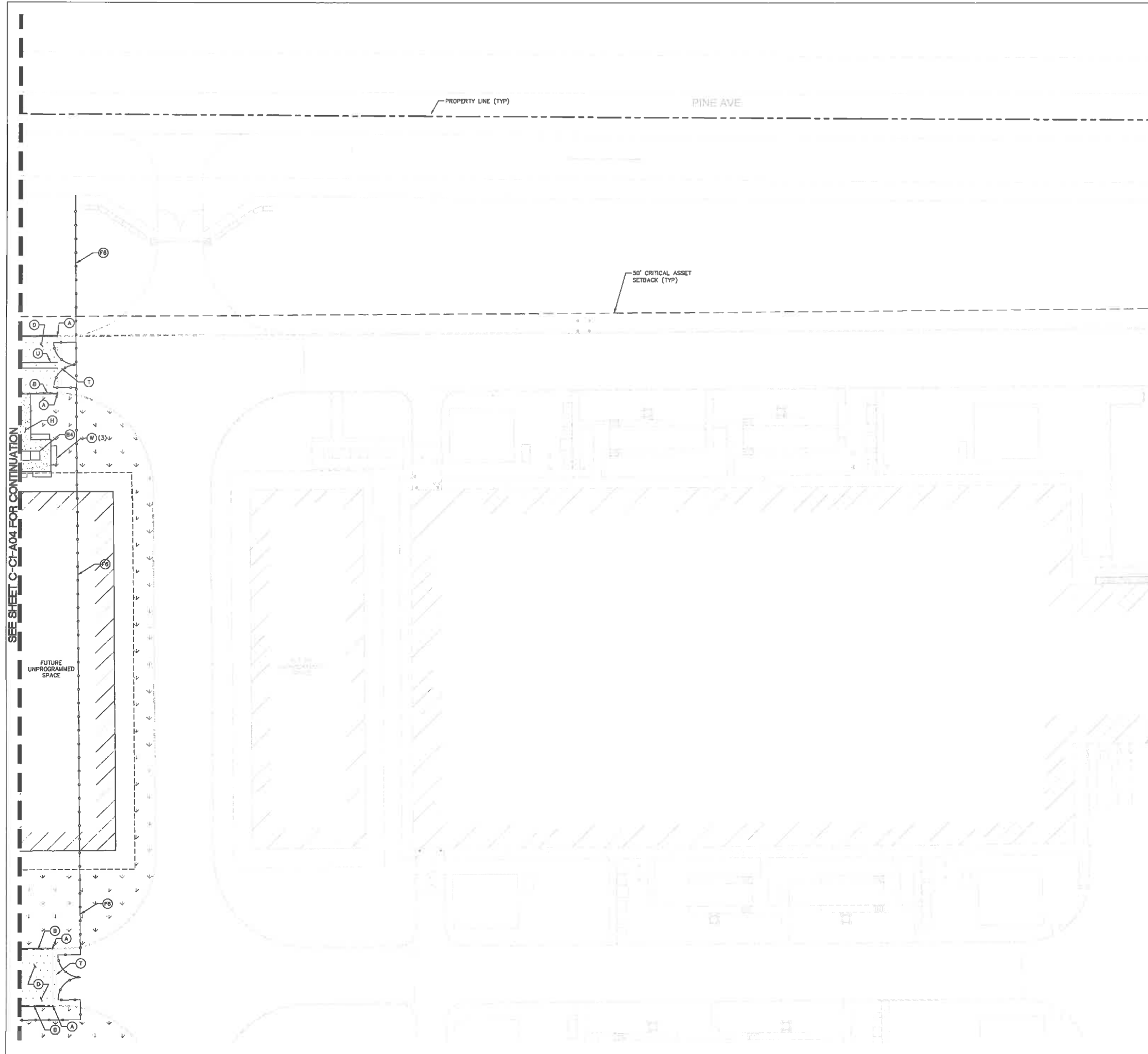
- (1) SITE LIGHTING (SEE ELECTRICAL PLANS)
- (2) CAST IN PLACE CONCRETE WALL (SEE STRUCTURAL PLANS)
- (3) GENERATOR (TYP) (SEE ELECTRICAL PLANS)
- (4) ELECTRICAL EQUIPMENT (TYP) (SEE ELECTRICAL PLANS)
- (5) FUEL PAD (TYP) (SEE STRUCTURAL PLANS)
- (6) PUMP HOUSE/COOLING TOWER (TYP) (SEE ARCHITECTURAL/MECHANICAL PLANS)
- (7) STAIRS (TYP) (SEE ARCHITECTURAL PLANS)
- (8) COMPACTOR (TYP) (SEE ARCHITECTURAL PLANS)
- (9) DOOR STOOP (TYP) (SEE STRUCTURAL PLANS)
- (10) KNOX BOX (TYP) (SEE STRUCTURAL PLANS)

FENCING KEY

- (1) 6' TALL, GALVANIZED CHAIN LINK FENCE (NO BARBED WIRE) 1/2-F-09
- (2) FENCE SIGNAGE, MAXIMUM SPACING 150', CENTER ON FENCE PANELS. CONTRACTOR TO SUBMIT PROPOSED LOCATIONS TO MICROSOFT SECURITY FOR APPROVAL PRIOR TO INSTALLATION 1/2-F-09
- (3) 6' TALL CHAIN LINK, DOUBLE SWING GATE, 30' WIDE CLEAR OPENING 1/2-F-09
- (4) 3' WIDE CHAIN LINK PEDESTRIAN GATE 1/2-F-09
- (5) KNOX BOX (SEE SECURITY PLANS FOR DETAIL) 1/2-F-09
- (6) 6' TALL TEMPORARY CHAIN LINK FENCE WITH PIER BLOCKS 1/2-F-09



CITY OF WEST DES MOINES
APPROVED BY: _____ DATE: _____



SEE SHEET C-C1-A04 FOR CONTINUATION

FUTURE UNPROGRAMMED SPACE

SEE SHEET C-CI-A03 FOR CONTINUATION

Page Architectural Page, Inc.
400 W. Cesar Chavez Street 7th Floor
Austin, TX 78701
page@page.com
Tel: 512-477-3211
Fax: 512-477-3211
www.page.com

LAND

15408 SE 8th St.
Suite 200
Bellevue, WA 98006

T (206) 463-4888
F (206) 463-4788
www.pland.com



**DSM 08
DATA CENTER**
550 SE WHITE CRANE ROAD
WEST DES MOINES, IA 50285

Design Team

Design	L. PALMER / L. ALBERTSON
Drawn	L. ALBERTSON
Checked	L. ALBERTSON
Date	10/28/2015
Project No.	15-0285
U.S. Project No.	1-10285

Approvals

DESIGNER	Page
Microsoft	Eric Neal
Microsoft Electrical Engineer	Peter Wanka
Microsoft Civil Engineer	Eric Neal
Microsoft Structural Engineer	Steve Stenberg
Engineering Manager	Andrew Taylor
Quality Manager	Eric Vanez
City	Scott Page

DESIGN TEAM

City Engineer	Jason Gilbert Page
Structural Lead	Brian Haywood Page
Civil Engineering Lead	Steve Pence / Pauland
Mechanical Engineering Lead	David Brown / Page
Electrical Engineering Lead	Chadwick Brown / Page
Structural Engineering Lead	John Cursey / Page
MEP Engineer Lead	Andy Baxter / Page
Interior Lead	Mate Elum / Page
Interior	Pete Bretzke / Page

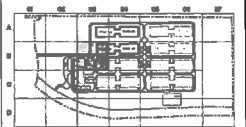
No.	Date	Description
1	2015.07.24	100% R/C

Registration		
Key Plan		

Registration



Key Plan



Bar Code

CONFIDENTIAL - TRADE SECRET - DO NOT DISCLOSE
This information constitutes confidential proprietary "trade secrets" as defined in the Iowa Uniform Trade Secrets Act and is provided pursuant to a promise of confidentiality.

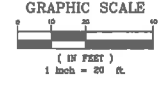
Sheet Title Number

**CML
SITE IMPROVEMENTS
PLAN**

CITY OF WEST DES MOINES

APPROVED BY: _____ DATE: _____

C-CI-B03



LEGEND

- — — — — PROPERTY LINE
- — — — — PROPOSED BUILDING
- — — — — PROPOSED CURB
- — — — — SECURITY FENCE
- — — — — TEMPORARY CHAINLINK FENCE
- — — — — PERMANENT CHAINLINK FENCE
- — — — — HEAVY DUTY ASPHALT PAVEMENT
- — — — — STANDARD DUTY ASPHALT PAVEMENT
- — — — — CONCRETE PAVEMENT
- — — — — CONCRETE SIDEWALK
- — — — — GRAVEL ROAD
- — — — — LANDSCAPING
- PIPE BOLLARD
- ⊕ FIRE HYDRANT
- VEHICULAR DIRECTIONAL SIGN
- ELECTRICAL OVER-HEAD FOUNDATION

SITE KEY

- (A) CONNECT TO EXISTING CONCRETE CURB, FIELD VERIFY
- (B) 6" STANDARD CONCRETE CURB (TYP) 1/2-02
- (C) CONCRETE PAVEMENT (TYP) 1/2-02
- (D) HEAVY-DUTY ASPHALT PAVEMENT (TYP) 2/2-02
- (E) LIGHT-DUTY ASPHALT PAVEMENT (TYP) 3/2-02
- (F) HEAVY TO LIGHT DUTY AC TRANSITION, SAND AND SEAL (TYP) 4/2-02
- (G) ASPHALT-CONCRETE PAVEMENT TRANSITION 5/2-02
- (H) CONCRETE SIDEWALK (TYP) 6/2-02
- (I) GRAVEL ROAD (TYP) 7/2-02
- (J) 6" FLUSH VERTICAL CURB W/ 4" WIDE STRIPING 8/2-02
- (K) ADA STALL (TYP) 9/2-02
- (L) SIDEWALK RAMP (TYP) 10/2-02
- (M) 4" WIDE, SOLID WHITE THERMOPLASTIC STRIPE (TYP)
- (N) 4" WIDE STRIPING AT 45°, 36" O.C. (TYP)
- (O) PIPE BOLLARD (QUANTITIES SHOWN IN PARENTHESES) (SEE ARCHITECTURAL PLANS FOR LOCATIONS) 10,11/2-02
- (P) STOP BAR (TYP) 12/2-02
- (Q) STOP SIGN PER MUTCD R10-6
- (R) SPEED LIMIT SIGN PER MUTCD R2-1 13/2-02
- (S) TYPE III BARRICADE (TYP) 14/2-02
- (T) SAWCUT AND MATCH EDGE OF EXISTING ASPHALT PAVEMENT SAND AND SEAL (TYP)
- (U) CONCRETE RIBBON DRAIN (SEE DRAINAGE PLAN) 15/2-02
- (V) JERSEY BARRIER (TYP)
- (W) ECOLOGY BLOCK 2'x2'x6" (TYP)
- (X) PLASTIBETON TELECOM TRENCH (TYP) (SEE TELECOM PLANS)
- (Y) STANDARD TO BARRIER CURB TRANSITION 16/2-02

SITE FEATURES (BY OTHERS)

- (1) SITE LIGHTING (SEE ELECTRICAL PLANS)
- (2) CAST IN PLACE CONCRETE WALL (SEE STRUCTURAL PLANS.)
- (3) GENERATOR (TYP) (SEE ELECTRICAL PLANS)
- (4) ELECTRICAL EQUIPMENT (TYP) (SEE ELECTRICAL PLANS)
- (5) FUEL PAD (TYP) (SEE STRUCTURAL PLANS)
- (6) PUMP HOUSE/COOLING TOWER (TYP) (SEE ARCHITECTURAL/MECHANICAL PLANS)
- (7) STAIRS (TYP) (SEE ARCHITECTURAL PLANS.)
- (8) COMPACTOR (TYP) (SEE ARCHITECTURAL PLANS)
- (9) DOOR STOOP (TYP) (SEE STRUCTURAL PLANS)
- (10) KNOX BOX (TYP) (SEE STRUCTURAL PLANS)

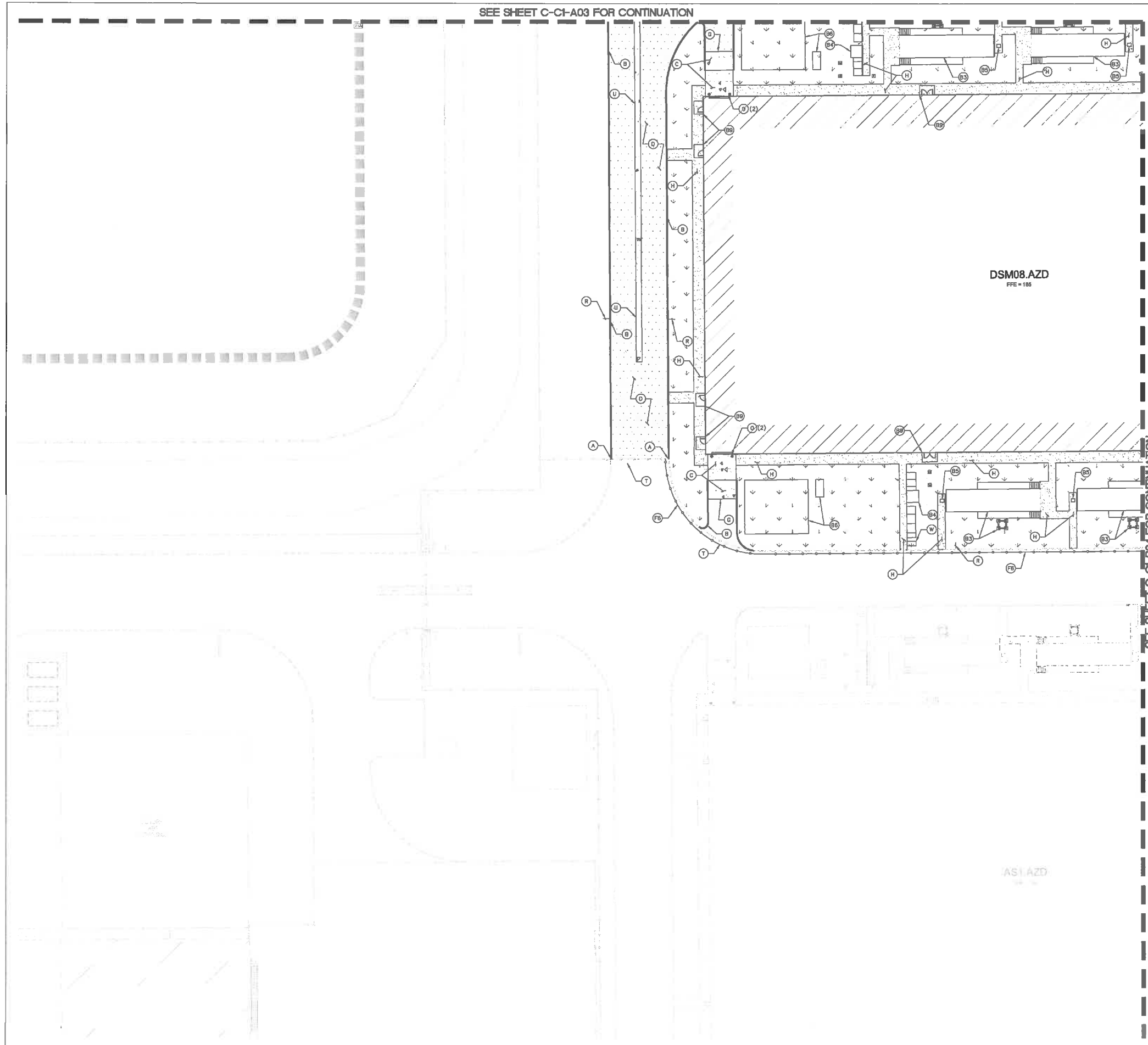
FENCING KEY

- (1) 6' TALL, GALVANIZED CHAIN LINK FENCE (NO BARBED WIRE.) 1/2-03
- (2) FENCE SIGNAGE, MAXIMUM SPACING 150', CENTER ON FENCE PANELS. CONTRACTOR TO SUBMIT PROPOSED LOCATIONS TO MICROSOFT SECURITY FOR APPROVAL PRIOR TO INSTALLATION. 2/2-03
- (3) 6' TALL CHAIN LINK, DOUBLE SWING GATE. 30' WIDE CLEAR OPENING. 3/2-03
- (4) 3' WIDE CHAIN LINK PEDESTRIAN GATE 4/2-03
- (5) KNOX BOX (SEE SECURITY PLANS FOR DETAIL) 5/2-03
- (6) 6' TALL TEMPORARY CHAIN LINK FENCE WITH PIER BLOCKS 6/2-03



Know what's below.
Call before you dig.

CITY OF WEST DES MOINES
APPROVED BY: _____ DATE: _____



DSM08.AZD
FFE-185

AS1.AZD

SEE SHEET C-CI-B04 FOR CONTINUATION

Page & Associates, Inc.
 400 W. Cesar Chavez Blvd. 5th Floor
 Austin, TX 78701
 Tel: 512.472.8211
 Fax: 512.472.8211
 www.pageandassociates.com



Microsoft
DSM 08
DATA CENTER
 550 SE WHITE CRANE ROAD
 WEST DES MOINES, IA 50265

Design Team

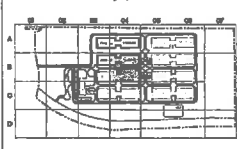
Owner	L. LAMON / LAMON
Design	J. ALKANTAR
Checked	T. BARNHART
Date	01 SEPTEMBER 2014
Project No.	50265P
U.S. Project No.	P-1389

Approvals

Client	MICROSOFT
Structural Engineer	PETER J. ANKBA
Mechanical Engineer	ERIC ABAL
Electrical Engineer	STEVE STEINBERG
Engineering Manager	ANDREW TAYLOR
Quality Manager	ERIC YANIS
ITA	TRICK PAGE
Site Design Lead	DERSON TEAM
Structural Lead	JARON GILBERT PAGE
Mechanical Lead	STEVEN HAYWOOD PAGE
Electrical Lead	STEVE PERSEY PACLAND
Structural Engineering Lead	DANIEL BROWN PEG
Mechanical Engineering Lead	CHRISTOPHER BROWN PAGE
Electrical Engineering Lead	JOHN CLAUDE PAGE
Site Design Lead	ANDY BAXTER PAGE
Vertical Lead	MATE ELIJAH SPARLING
Utility Lead	PETE BRETZKAWA

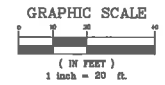
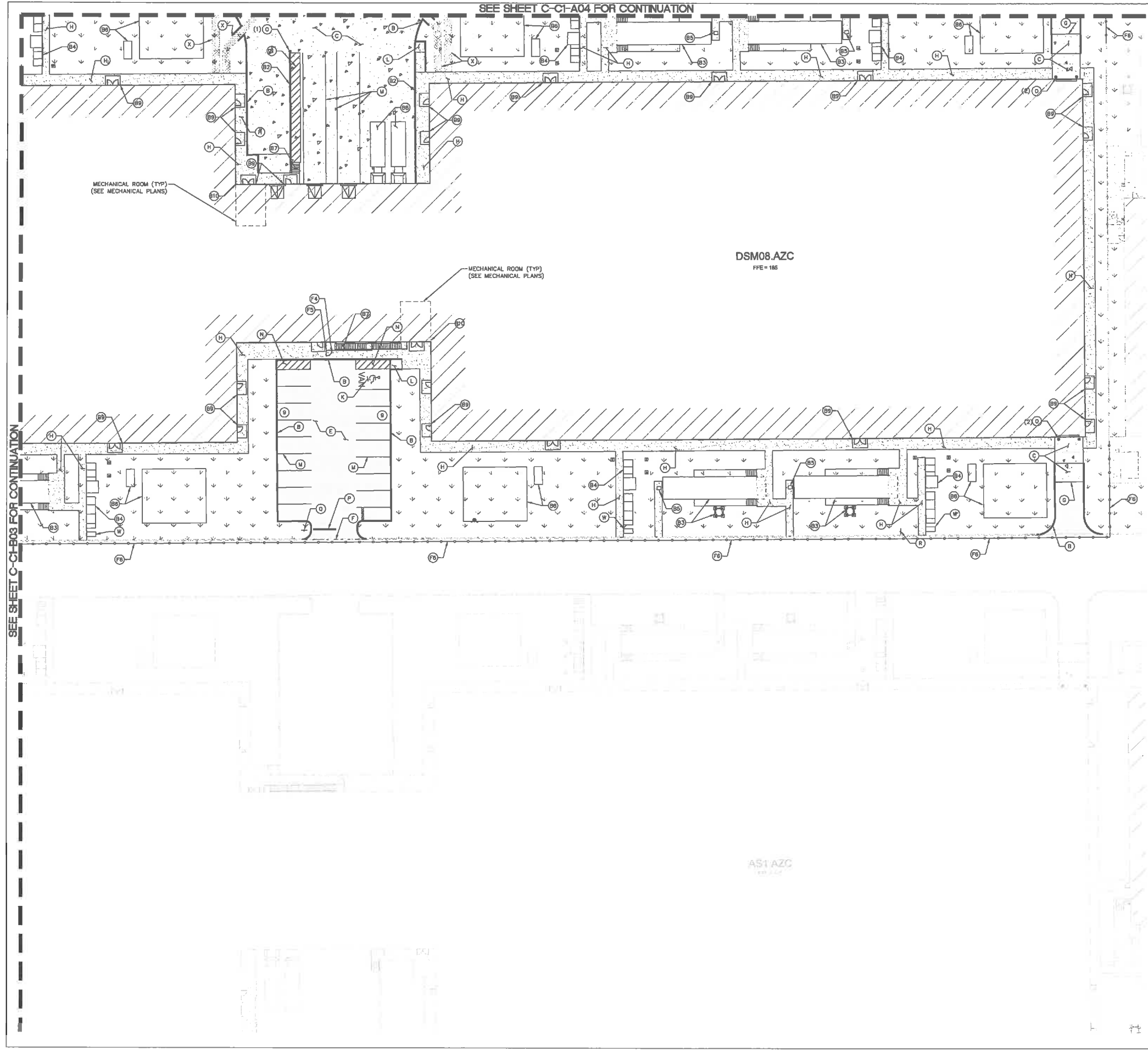
Revisions

No.	Date	Description
1	2015.07.24	100% R/C



Bar Code
 CONFIDENTIAL - TRADE SECRET - DO NOT DISCLOSE
 This information contains confidential proprietary "trade secrets" as defined in the Iowa Uniform Trade Secrets Act and is provided pursuant to a promise of confidentiality.

CIVIL
SITE IMPROVEMENTS
PLAN
 C-C1-B04



- LEGEND**
- PROPERTY LINE
 - PROPOSED BUILDING
 - PROPOSED CURB
 - SECURITY FENCE
 - TEMPORARY CHAINLINK FENCE
 - PERMANENT CHAINLINK FENCE
 - HEAVY DUTY ASPHALT PAVEMENT
 - STANDARD DUTY ASPHALT PAVEMENT
 - CONCRETE PAVEMENT
 - CONCRETE SIDEWALK
 - GRAVEL ROAD
 - LANDSCAPING
 - PIPE BOLLARD
 - FIRE HYDRANT
 - VEHICULAR DIRECTIONAL SIGN

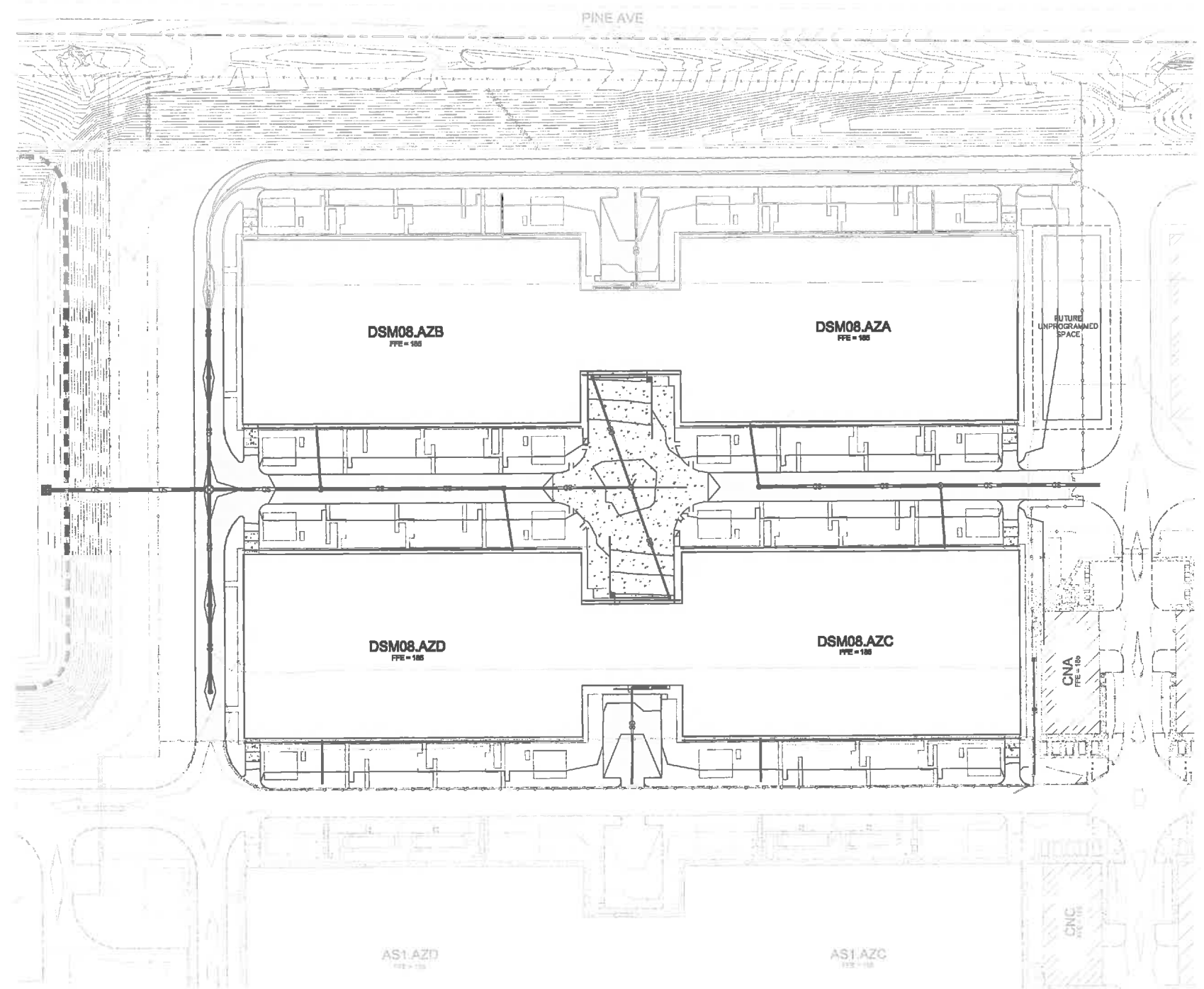
- SITE KEY**
- (A) CONNECT TO EXISTING CONCRETE CURB, FIELD VERIFY
 - (B) 6" STANDARD CONCRETE CURB (TYP) 1 C-F-09
 - (C) CONCRETE PAVEMENT (TYP) 2 C-F-09
 - (D) HEAVY-DUTY ASPHALT PAVEMENT (TYP) 2 C-F-09
 - (E) LIGHT-DUTY ASPHALT PAVEMENT (TYP) 3 C-F-09
 - (F) HEAVY TO LIGHT DUTY AC TRANSITION, SAND AND SEAL (TYP) 3 C-F-09
 - (G) ASPHALT-CONCRETE PAVEMENT TRANSITION 3 C-F-09
 - (H) CONCRETE SIDEWALK (TYP) 3 C-F-09
 - (I) GRAVEL ROAD (TYP) 3 C-F-09
 - (J) 6" FLUSH VERTICAL CURB W/ 4" WIDE STRIPING 8 C-F-09
 - (K) ADA STALL (TYP) 13 C-F-09
 - (L) SIDEWALK RAMP (TYP) 13 C-F-09
 - (M) 4" WIDE, SOLID WHITE THERMOPLASTIC STRIPE (TYP)
 - (N) 4" WIDE STRIPING AT 45°, 36" O.C. (TYP)
 - (O) PIPE BOLLARD (QUANTITIES SHOWN IN PARENTHESES) 10, 11 C-F-09
 (SEE ARCHITECTURAL PLANS FOR LOCATIONS)
 - (P) STOP BAR (TYP) 2 C-F-09
 - (Q) STOP SIGN PER MUTCD R10-6
 - (R) SPEED LIMIT SIGN PER MUTCD R2-1 18 C-F-09
 - (S) TYPE III BARRICADE (TYP) 17 C-F-09
 - (T) SAWCUT AND MATCH EDGE OF EXISTING ASPHALT PAVEMENT SAND AND SEAL (TYP)
 - (U) CONCRETE RIBBON DRAIN (SEE DRAINAGE PLAN) 10 C-F-09
 - (V) JERSEY BARRIER (TYP)
 - (W) ECOLOGY BLOCK 2'x2'x6" (TYP)
 - (X) PLASTIBETON TELECOM TRENCH (TYP) (SEE TELECOM PLANS)
 - (Y) STANDARD TO BARRIER CURB TRANSITION 2 C-F-09

- SITE FEATURES (BY OTHERS)**
- (1) SITE LIGHTING (SEE ELECTRICAL PLANS)
 - (2) CAST IN PLACE CONCRETE WALL (SEE STRUCTURAL PLANS.)
 - (3) GENERATOR (TYP) (SEE ELECTRICAL PLANS)
 - (4) ELECTRICAL EQUIPMENT (TYP) (SEE ELECTRICAL PLANS)
 - (5) FUEL PAD (TYP) (SEE STRUCTURAL PLANS)
 - (6) PUMP HOUSE/COOLING TOWER (TYP) (SEE ARCHITECTURAL/MECHANICAL PLANS)
 - (7) STAIRS (TYP) (SEE ARCHITECTURAL PLANS.)
 - (8) COMPACTOR (TYP) (SEE ARCHITECTURAL PLANS)
 - (9) DOOR STOOP (TYP) (SEE STRUCTURAL PLANS)
 - (10) KNOX BOX (TYP) (SEE STRUCTURAL PLANS)

- FENCING KEY**
- (1) 6' TALL, GALVANIZED CHAIN LINK FENCE (NO BARBED WIRE.) 5 C-F-09
 - (2) FENCE SIGNAGE, MAXIMUM SPACING 150', CENTER ON FENCE PANELS. CONTRACTOR TO SUBMIT PROPOSED LOCATIONS TO MICROSOFT SECURITY FOR APPROVAL PRIOR TO INSTALLATION. 6 C-F-09
 - (3) 6' TALL CHAIN LINK, DOUBLE SWING GATE, 30" WIDE CLEAR OPENING. 2 C-F-09
 - (4) 3' WIDE CHAIN LINK PEDESTRIAN GATE 3 C-F-09
 - (5) KNOX BOX (SEE SECURITY PLANS FOR DETAIL) 7 C-F-09
 - (6) 6' TALL TEMPORARY CHAIN LINK FENCE WITH PIER BLOCKS 9 C-F-09



CITY OF WEST DES MOINES
 APPROVED BY: _____ DATE: _____



GRADING NOTES

1. THE SPOT ELEVATIONS INDICATED ON THIS PLAN REPRESENT THE DESIGN TOP OF PAVEMENT, UNLESS OTHERWISE NOTED.
2. CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF EXISTING STRUCTURES INCLUDING REMOVAL OF ANY EXISTING UTILITIES SERVING THE STRUCTURE. UTILITIES ARE TO BE REMOVED TO THE RIGHT-OF-WAY.
3. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES 3H:1V OR STEEPER. CONTRACTOR SHALL STABILIZE DISTURBED AREAS IN ACCORDANCE WITH LOCAL SPECIFICATIONS.
4. ALL CUT AND FILL SLOPES SHALL BE CONSTRUCTED PER THE UBC CODE AND APPLICABLE LOCAL REGULATION. ALL CUT AND FILL SLOPES SHALL BE 2:1 OR FLATTER UNLESS OTHERWISE NOTED.
5. CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS AND SHALL GRADE ALL AREAS TO PRECLUDE PONDING OF WATER.
6. ALL POLLUTANTS OTHER THAN SEDIMENT ON-SITE DURING CONSTRUCTION SHALL BE HANDLED AND DISPOSED OF IN A MANNER THAT DOES NOT CAUSE CONTAMINATION OF STORMWATER. THE CONTRACTOR SHALL ADHERE TO ALL TERMS AND CONDITIONS AS OUTLINED IN THE GENERAL N.P.O.E.S. PERMIT FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
7. PROPERTIES AND WATERWAYS DOWNSTREAM OF THE SITE SHALL BE PROTECTED FROM EROSION DUE TO INCREASES IN THE VOLUME, VELOCITY AND PEAK FLOW RATE OF STORMWATER RUNOFF FROM PROJECT SITE.
8. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES.
9. CONTRACTOR TO REMOVE UNSUITABLE SOILS LOCATED WITHIN THE BUILDINGS SPLAY LINE OF THE FOOTINGS.
10. FOR BOUNDARY AND TOPOGRAPHIC INFORMATION REFER TO PROJECT SURVEY

STORM DRAINAGE NOTES

1. EXISTING DRAINAGE STRUCTURES TO BE INSPECTED AND REPAIRED AS NEEDED, AND EXISTING PIPES TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS. PLEASE REFER TO OPERATIONS AND MAINTENANCE GUIDELINES WITHIN STORM DRAINAGE ANALYSIS.
2. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
3. STORM DRAINAGE PIPE WITH LESS THAN 2'-3" COVER SHALL BE CLASS IV REINFORCED CONCRETE PIPE, OR APPROVED EQUAL TO SUSTAIN H-20 LOADING.
4. ALL ONSITE STORM DRAINAGE PIPE SHALL BE SMOOTH WALLED INTERIOR, MANUFACTURER'S VERIFICATION OF MANNING'S ROUGHNESS COEFFICIENT N=0.012 OR LESS.
5. PRECAST STRUCTURES MAY BE USED AT CONTRACTOR'S OPTION.
6. CATCH BASIN INLET PROTECTION / EROSION CONTROL TO BE USED FOR ALL NEW INLETS.
7. ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATERTIGHT.
8. ALL STORM STRUCTURES SHALL HAVE A SMOOTH UNIFORM POURED MORTAR CHANNEL FROM INVERT IN TO INVERT OUT, UNLESS OTHERWISE SHOWN IN THE CATCH BASIN DETAIL.
9. PERMANENT SITE CONVEYANCE STRUCTURES TO BE DESIGNED AND SPECIFIED DURING SITE PLAN APPROVAL.
10. CONTRACTOR TO FIELD VERIFY IETS FOR ALL STUBS PROVIDED UNDER DSM08 CONTRACT AND INFORM ENGINEER WHETHER AS-BUILT CONDITIONS DIFFER FROM DESIGN ELEVATIONS.

ARCHEOLOGICAL NOTE

SHOULD ANY ARCHEOLOGICAL DEPOSITS BE FOUND ONSITE, GRADING SHOULD STOP AND THE ENGINEER OF RECORD SHOULD BE CONTACTED BEFORE FURTHER EARTH MOVING ACTIVITIES TAKE PLACE.

Page Brothersland Page, Inc.
400 W. Cass Street, Suite 500, West Des Moines, IA 50263
515.277.8211
www.pbpl.com



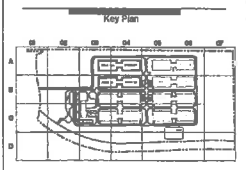
Microsoft
DSM 08 DATA CENTER
550 SE WHITE CRANE ROAD
WEST DES MOINES, IA 50265

Design Team
 Design: L. PALMER / J. HARRINGTON
 Draft: J. HARRINGTON
 Check: J. HARRINGTON
 Date: 10/20/2014
 Project: DSM 08
 IGA Project No.: P-1209

Approvals	
Client:	MICROSOFT
Microsoft Representative:	PETER JAMES
Microsoft Civil Engineer:	ERIC SEAL
Microsoft Electrical Engineer:	STEVE STEINERT
Engineering Manager:	ANDREW TAYLOR
Design Manager:	ERIC YANEZ
Checker:	JACK HARRIS
DESIGN TEAM	
Civil Design Lead:	JARON GILBERT PAGE
Structural Lead:	STEFAN HATWOOD PAGE
MEP Engineering Lead:	STEVE PERCIE FACKLAND
Structural Engineering Lead:	DAVID BROWN PEG
Structural Engineering Senior Lead:	CARRISON BROWN PAGE
Structural Engineering Lead:	JOHN CURRIE PAGE
MEP Design Lead:	ANDY BAXTER PAGE
MEP Design Lead:	MATE ELLIS SPARLING
MEP Design Lead:	PETE BREITZKY AND

Revisions	
No.	Date
1	2014.07.24 100% IFC

Registration	
No.	Date
1	2014.07.24 100% IFC



Bar Code
 ENVIRONMENTAL - GRADE SECURITY - DO NOT EXCEED.
 This information constitutes confidential proprietary "trade secrets" as defined by the Iowa Uniform Trade Secrets Act and is provided pursuant to a promise of confidentiality.

Sheet Title/Number
CIVIL SITE GRADING AND DRAINAGE PLAN OVERALL
 C-D1-01



CITY OF WEST DES MOINES
 APPROVED BY: _____ DATE: _____

Page Southland Page, Inc.
 400 W. Clear Creek Street 5th Floor
 Austin, TX 78701
 page@psl.com
 Tel: 512 477 5211
 Fax: 512 477 5211
 www.psland.com



Microsoft
DSM 08
DATA CENTER
 550 SE WHITE CRANE ROAD
 WEST DES MOINES, IA 50265

Design Team

Design	L. NAMBRI / J. G. WATSON
Drawn	J. G. WATSON
Checked	L. NAMBRI
Date	11 SEPTEMBER 2014
Project	PAULAND PROJECT, 550 SE WHITE CRANE ROAD, WEST DES MOINES, IA 50265
Scale	AS SHOWN

Approvals

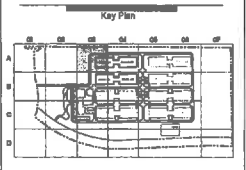
Client	MICROSOFT
Project Manager	PETER VANDEBEEK
Site Engineer	ERIC BEAL
Structural Engineer	STEVE STEWART
Engineering Manager	ANDREW TAYLOR
Quality Manager	ERIC VANCE
City	ROCKY PAGE

DESIGN TEAM

Site Engineer	JARON GILBERT PAGE
Structural Engineer	BRYAN HAYWOOD PAGE
Civil Engineering Lead	STEVE PERCE PAGE
Structural Engineering Lead	DAVID BROWN PER
Structural Engineering Lead	CHRISTOPHER BROWN PAGE
Structural Engineering Lead	JOHN CLAREY PAGE
Structural Lead	ANDY BARTLEY PAGE
Structural Lead	MATE BLUM SPARKS
Structural Lead	PETE BREZDVA ARS

Revisions

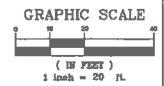
No.	Date	Revised
1	2014/07/24	100% B/C



Star Code
 CONFIDENTIAL - TRANSFER ONLY - DO NOT DISCLOSE
 This information contains confidential proprietary trade secrets as defined in the Iowa Uniform Trade Secrets Act and is provided pursuant to a promise of confidentiality.

CIVIL
 FINISHED GRADING
 PLAN

CITY OF WEST DES MOINES
 APPROVED BY: _____ DATE: _____
C-D2-A03



LEGEND

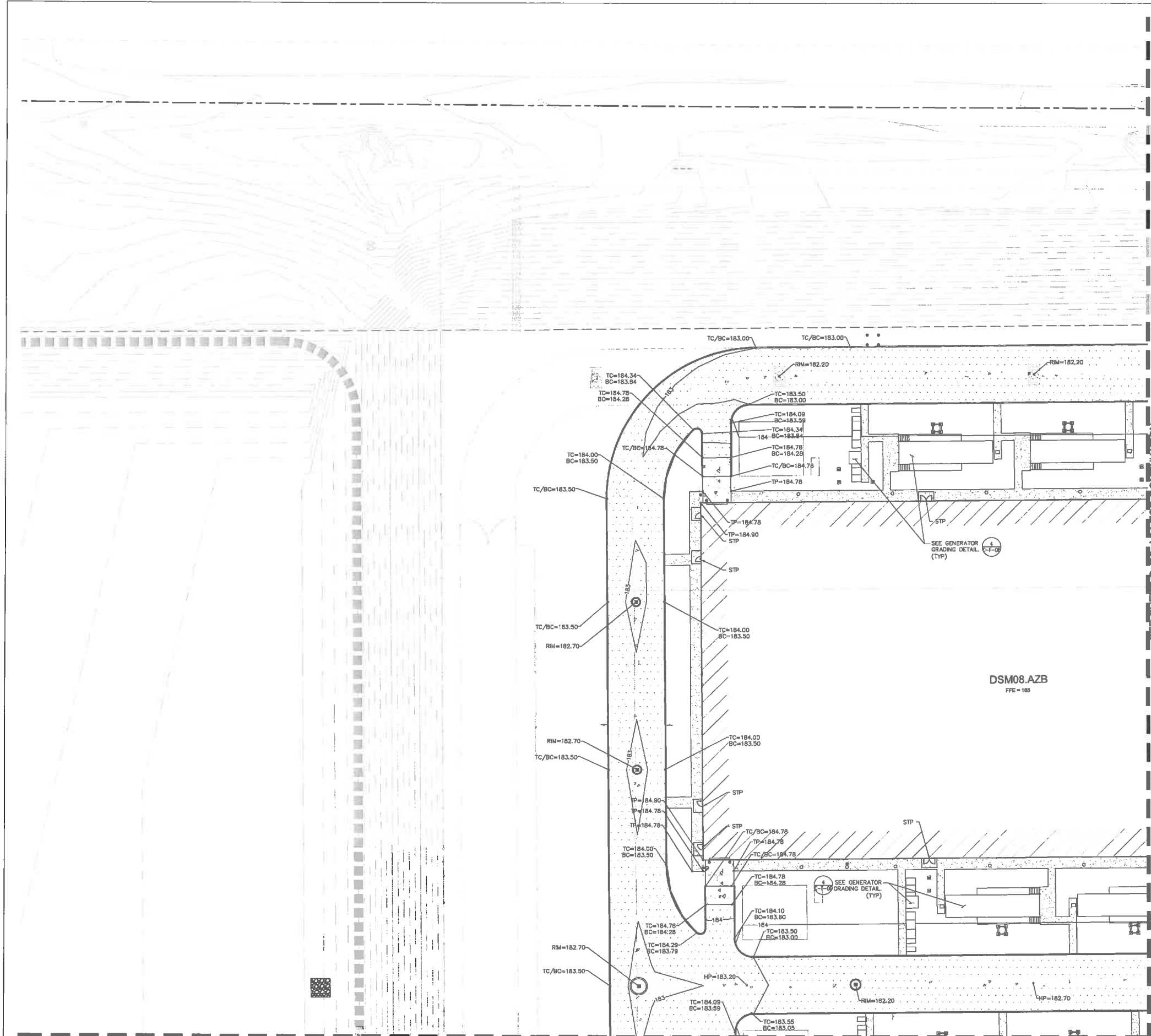
- — — — — PROPERTY LINE
- ▭ PROPOSED BUILDING
- RECTANGULAR AREA INTAKE
- CLEANOUT/WYE TO BUILDING SERVICE
- SUDAS CIRCULAR STORM SEWER MANHOLE
- SUDAS SW-403 AND SW-404 RECTANGULAR BASE STORM SEWER MANHOLE
- AREA DRAIN
- SEWER MANHOLE
- GS=100.00 GROUND SPOT
- TP=100.00 TOP OF PAVEMENT
- TC=100.00 TOP OF CURB
- BC=100.00 BOTTOM OF FACE OF CURB
- TW=100.00 TOP OF WALL
- BW=100.00 BOTTOM OF WALL
- EG=100.00 EXISTING GROUND
- T/PE=100.00 TOP OF PAD ELEVATION
- T/CO=100.00 TOP OF CLEANOUT
- RIM=100.00 RIM ELEVATION
- HP=100.00 HIGH POINT
- STP DOOR STOOP

NOTE:

- STORM CATCH BASIN RIMS SHOWN IN FUTURE DEVELOPMENT AREAS ARE 8" LOWER THAN FINAL RIM ELEVATIONS.
- SEE DETAIL 8, 9, 10 ON SHEET C-F-03 FOR DETAILED GRADING AT PEDESTRIAN DOORS.
- SEE DETAIL 7 ON SHEET C-F-08 FOR LOADING DOCK TRENCH DRAIN SECTION.

SEE SHEET C-D2-A04 FOR CONTINUATION

SEE SHEET C-D2-B03 FOR CONTINUATION



Page Engineering, Inc.
 400 W. Clear Creek Street 5th Floor
 Austin, TX 78701
 page@page.com
 Tel: 512.472.8721
 Fax: 512.477.3211
 www.page.com



**DSM 08
 DATA CENTER**
 550 SE WHITE CRANE ROAD
 WEST DES MOINES, IA 50265

Design Team

Design	L. PALMER / L. ALBERTSON
Drawn	J. K. ANDRUS
Checked	L. S. BROWN
Date	13 SEPTEMBER 2011
PAKLAND Project No.	10000000
U.S. Project No.	P. 10000

Approvals

DSM 08/08	Side
MICROSOFT	Side
Microsoft Electrical Engineer	PETER WANKSA
Microsoft Civil Engineer	ERIC NEAL
Microsoft Mechanical Engineer	STEVE STEWART
Microsoft Structural Engineer	ANDREW TAYLOR
Microsoft Surveyor	ERIC YANEZ
Microsoft	KECK PAGE

DESIGN TEAM

DSM Project Lead	JASON GILBERT/PAGE
Professional Lead	BRYAN HAYWOOD/PAGE
Civil Engineering Lead	STEVE PESCI/PACLAND
Structural Engineering Lead	DANIEL BISHOP/PAC
Mechanical Engineering Lead	CHRISTOPHER BROWN/PAGE
Electrical Engineering Lead	JOHN CLARKE/PAGE
Site Control Lead	ANDY BAKTERI/PAGE
Utilities Lead	MATE ELIJAH SPARKLING
Survey Lead	PETE BRETHER/ASD

Revisions

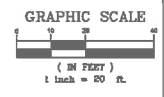
No.	Date	Description
1	2011.07.24	100% R/C



CONFIDENTIAL - TRADE SECRET - DO NOT DISCLOSE
 This information contains confidential proprietary "trade secrets" as defined in the Iowa Uniform Trade Secrets Act and is provided pursuant to a provision of confidentiality.

**CML
 FINISHED GRADING
 PLAN**

Sheet Title/Number
C-D2-A04



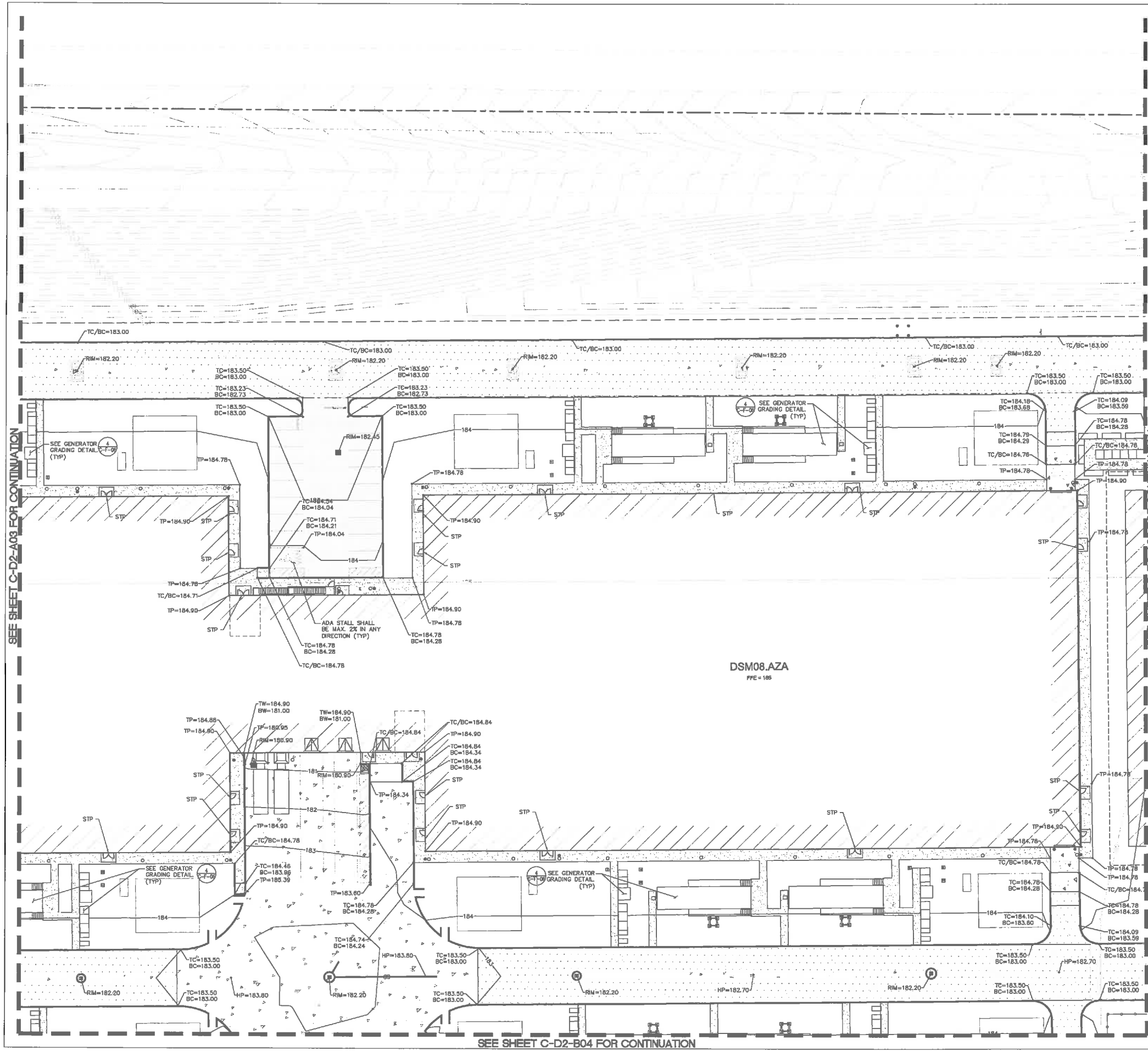
LEGEND

---	PROPERTY LINE
▭	PROPOSED BUILDING
■	RECTANGULAR AREA INTAKE
●	CLEANOUT/WYE TO BUILDING SERVICE
○	SUDAS CIRCULAR STORM SEWER MANHOLE
○	SUDAS SW-403 AND SW-404 RECTANGULAR BASE STORM SEWER MANHOLE
□	AREA DRAIN
○	SEWER MANHOLE
○	GROUND SPOT
○	TOP OF PAVEMENT
○	TOP OF CURB
○	BOTTOM OF FACE OF CURB
○	TOP OF WALL
○	BOTTOM OF WALL
○	EXISTING GROUND
○	TOP OF PAD ELEVATION
○	TOP OF CLEANOUT
○	RIM ELEVATION
○	HIGH POINT
○	DOOR STOOP

- NOTE:**
1. STORM CATCH BASIN RIMS SHOWN IN FUTURE DEVELOPMENT AREAS ARE 0" LOWER THAN FINAL RIM ELEVATIONS.
 2. SEE DETAIL 8, 9, 10 ON SHEET C-F-03 FOR DETAILED GRADING AT PEDESTRIAN DOORS.
 3. SEE DETAIL 7 ON SHEET C-F-08 FOR LOADING DOCK TRENCH DRAIN SECTION.



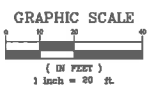
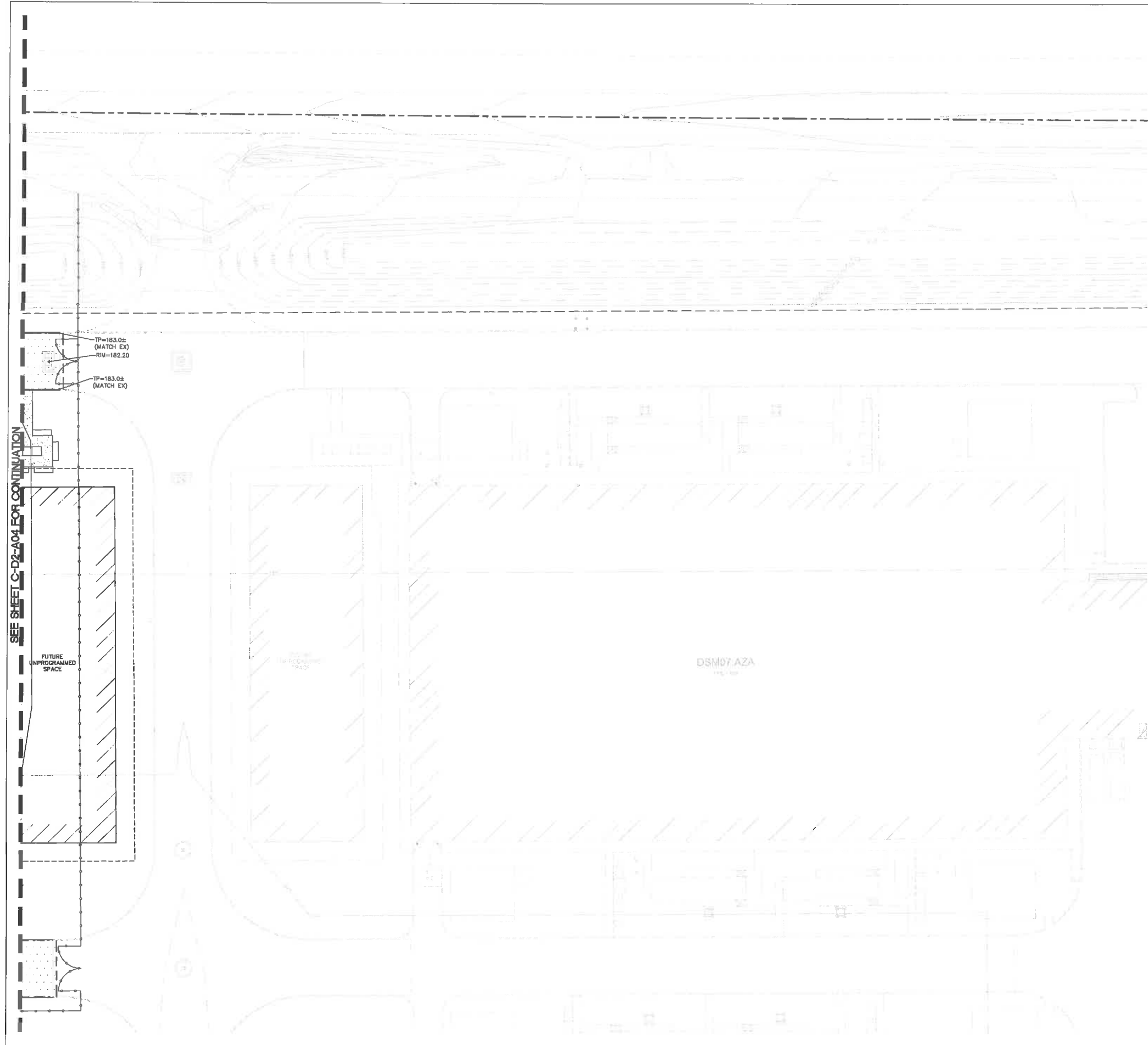
CITY OF WEST DES MOINES
 APPROVED BY: _____ DATE: _____



SEE SHEET C-D2-A03 FOR CONTINUATION

SEE SHEET C-D2-A05 FOR CONTINUATION

SEE SHEET C-D2-B04 FOR CONTINUATION



LEGEND

---	PROPERTY LINE
▭	PROPOSED BUILDING
■	RECTANGULAR AREA INTAKE
●	CLEANOUT/WYE TO BUILDING SERVICE
○	SUDAS CIRCULAR STORM SEWER MANHOLE
□	AREA DRAIN
○	SEWER MANHOLE
○	GROUND SPOT
TP=100.00	TOP OF PAVEMENT
TC=100.00	TOP OF CURB
BC=100.00	BOTTOM OF FACE OF CURB
TW=100.00	TOP OF WALL
BW=100.00	BOTTOM OF WALL
EG=100.00	EXISTING GROUND
T/PE=100.00	TOP OF PAD ELEVATION
T/CO=100.00	TOP OF CLEANOUT
RIM=100.00	RIM ELEVATION
HP=100.00	HIGH POINT
STP	DOOR STOOP

NOTE:

1. STORM CATCH BASIN RIMS SHOWN IN FUTURE DEVELOPMENT AREAS ARE 6" LOWER THAN FINAL RIM ELEVATIONS.
2. SEE DETAIL 8, 9, 10 ON SHEET C-F-03 FOR DETAILED GRADING AT PEDESTRIAN DOORS.
3. SEE DETAIL 7 ON SHEET C-F-08 FOR LOADING DOCK TRENCH DRAIN SECTION.

Page/
 Page/ Southland Page, Inc.
 400 W. Cesar Chavez Street 5th Floor
 Austin, TX 78701
 page@page.com
 Tel: 512 472 8721
 Fax: 512 477 3211
 ARCHITECTS (REGISTERED ARCHITECTS) ENGINEERS (REGISTERED PROFESSIONAL ENGINEERS)
 PLUMBERS / DRAINAGE / CHEMISTS / PLUMBERS, WASHINGTON DC / INTERNATIONAL ALLIATE OFFICES

LAND
 1408 08 08, P.C.
 1408 08 08, P.C.
 1408 08 08, P.C.
 1408 08 08, P.C.

Microsoft
DSM 08
DATA CENTER
 550 SE WHITE CRANE ROAD
 WEST DES MOINES, IA 50265

Design Team

Design	L. J. JENSEN / L. J. JENSEN
Drawn	L. J. JENSEN
Checked	L. J. JENSEN
Date	10/20/07
PROJECT No.	080708
S.A. Project No.	P. 0200

Approvals

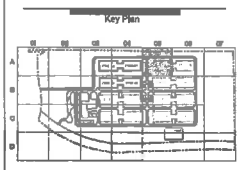
CLIENT:	Microsoft
Microsoft Technical Engineer:	PETER VANDEBEEK
Microsoft Senior Engineer:	ERIC SEAL
Microsoft Electrical Engineer:	STEVE ETHERBERT
Microsoft Mechanical Engineer:	ANDREW TAYLOR
Microsoft Manager:	ERIC YANEZ
Microsoft:	ROCKFACE

DESIGN TEAM

Team Leader:	JARON GILBERT PAGE
Architectural Lead:	STEVEN HAYWOOD PAGE
Civil Engineering Lead:	STEVE PERCEC PAGE
Mechanical Engineering Lead:	DAVID BROWN PAGE
Electrical Engineering Lead:	CASEY BROWN PAGE
Structural Engineering Lead:	JOHN CURRIS PAGE
Site Planning Lead:	ANDY BAXTER PAGE
Surveying Lead:	MATE ELLIS SPANLING
Quantity Lead:	PETE BREITZGER ADG

Revisions

No.	Date	Description
1	2014.07.24	ISSUE FOR



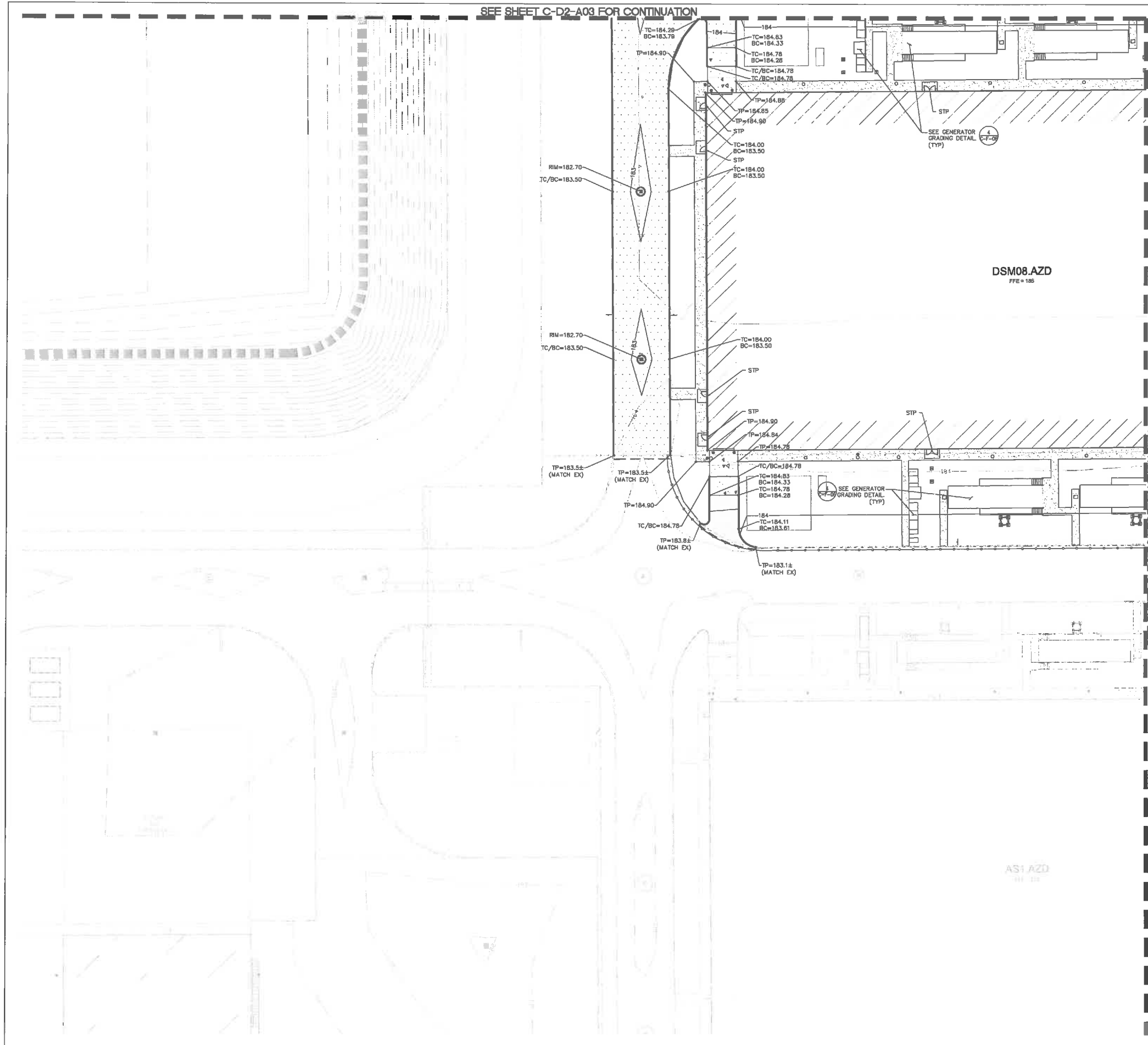
Blr Code
 CONFIDENTIAL - TRADE SECRET - DO NOT DISCLOSE
 This information contains confidential proprietary trade secrets as defined by the Iowa Uniform Trade Secrets Act and is provided pursuant to a provision of confidentiality.
 Sheet Title/Number

CIVIL
FINISHED GRADING
PLAN
C-D2-A05

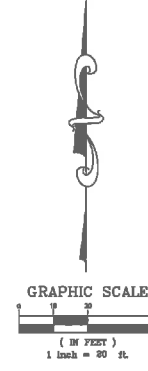


CITY OF WEST DES MOINES
 APPROVED BY: _____ DATE: _____

SEE SHEET C-D2-A03 FOR CONTINUATION



SEE SHEET C-D2-B04 FOR CONTINUATION



LEGEND

	PROPERTY LINE
	PROPOSED BUILDING
	RECTANGULAR AREA INTAKE CLEANOUT/WYE TO BUILDING SERVICE
	SUDAS CIRCULAR STORM SEWER MANHOLE
	SUDAS SW-403 AND SW-404 RECTANGULAR BASE STORM SEWER MANHOLE
	AREA DRAIN
	SEWER MANHOLE
	GROUND SPOT
	TOP OF PAVEMENT
	TOP OF CURB
	BOTTOM OF FACE OF CURB
	TOP OF WALL
	BOTTOM OF WALL
	EXISTING GROUND
	TOP OF PAD ELEVATION
	TOP OF CLEANOUT
	RIM ELEVATION
	HIGH POINT
	DOOR STOOP

- NOTE:**
1. STORM CATCH BASIN RIMS SHOWN IN FUTURE DEVELOPMENT AREAS ARE 6" LOWER THAN FINAL RIM ELEVATIONS.
 2. SEE DETAIL 8, 9, 10 ON SHEET C-F-03 FOR DETAILED GRADING AT PEDESTRIAN DOORS.
 3. SEE DETAIL 7 ON SHEET C-F-08 FOR LOADING DOCK TRENCH DRAIN SECTION.

Page/
 Page: 001 of 001
 400 W. Clear Creek Street 7th Floor
 Austin, TX 78701
 512.472.8211
 512.472.8211
 ARCHITECTURE ENGINEERING CONSULTING
 PLANNING & INTERIOR DESIGN, INC.
 INTERNATIONAL AFFILIATE OFFICES



Microsoft
DSM 08
DATA CENTER
 550 SE WHITE CRANE ROAD
 WEST DES MOINES, IA 50265

Design Team

Design	L. HALL / J. LAURITSEN
Drawn	J. LAURITSEN
Checked	L. HALL
Date	10/27/2014 09:00
Project Name	DSM08
S&P Project No.	P-12001

Approvals

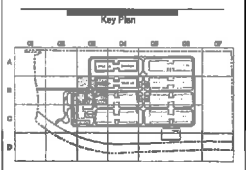
Client	MICROSOFT
Client Representative	PETER VANESA
Client Title	ERIC SEN
Client Representative	STEVE STEWART
Client Title	ANDREW TAYLOR
Client Representative	ERIC YANCEY
Client Title	KECK PAGE

DESIGN TEAM

Site Design Lead	JAMON GILBERT/PAGE
Architectural Lead	BRYAN HAYWOOD/PAGE
MEP Engineering Lead	STEVE PERCH/PACLAND
Structural Engineering Lead	EDWARD BROWNE/PAGE
Electrical Engineering Lead	CAMERON BROWNE/PAGE
Mechanical Engineering Lead	JOHN CURRIS/PAGE
Site Construction Lead	ANDY BAXTER/PAGE
Construction Lead	KATE ELLIOT/PACLAND
Interior Lead	PETE BRETZNER/ARO

Revisions

No.	Date	Description
1	2014.07.14	100% FC

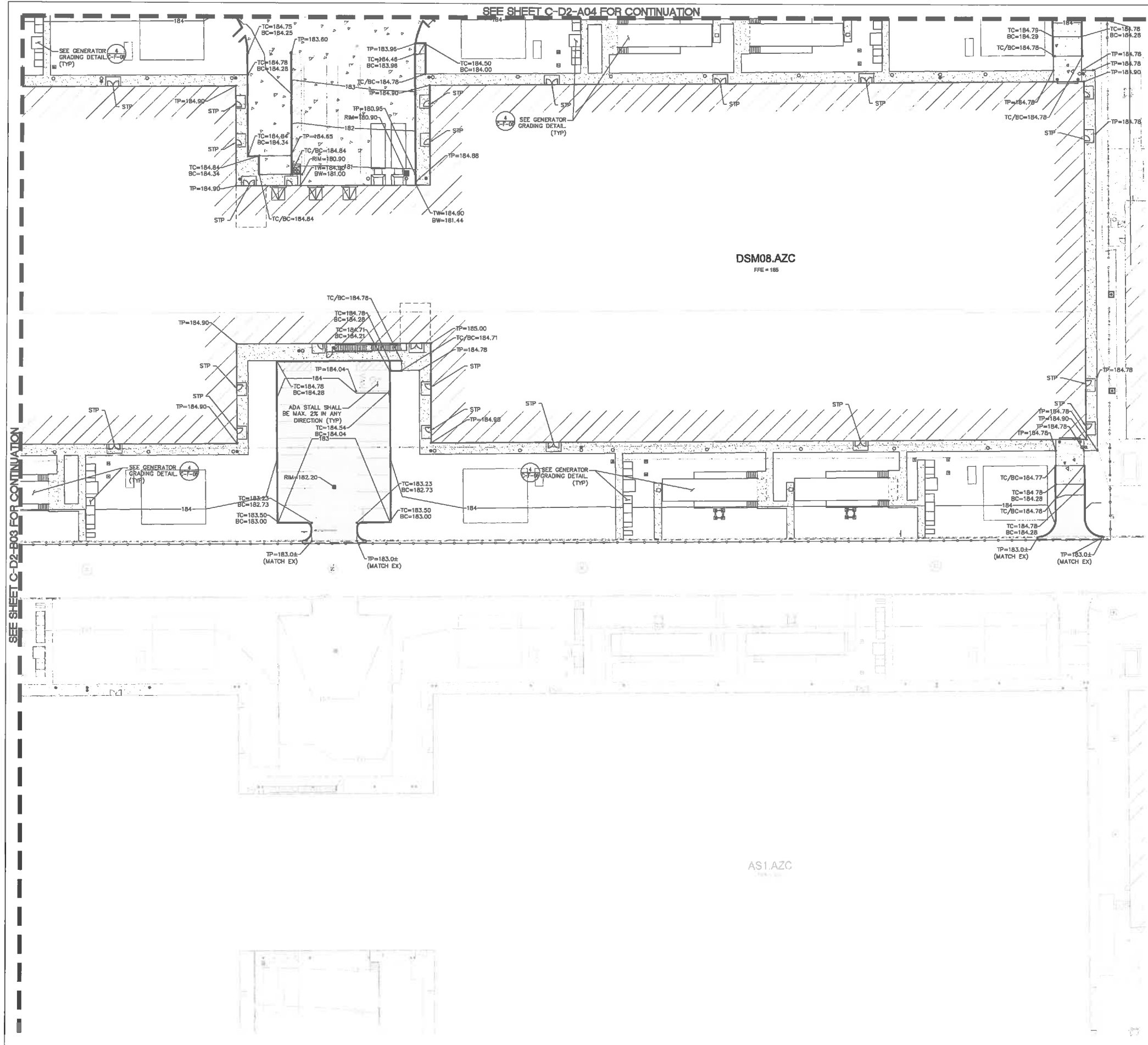


Sheet Code
 CONFIDENTIAL - TRADE SECRET - DO NOT DISCLOSE
 This information constitutes confidential proprietary trade secrets as defined in the Iowa Uniform Trade Secrets Act and is provided pursuant to a promise of confidentiality.
 Sheet Title/Number

CML
FINISHED GRADING
PLAN
C-D2-B03

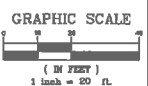


CITY OF WEST DES MOINES
 APPROVED BY: _____ DATE: _____



SEE SHEET C-D2-A04 FOR CONTINUATION

SEE SHEET C-D2-B03 FOR CONTINUATION



LEGEND

---	PROPERTY LINE
▭	PROPOSED BUILDING
■	RECTANGULAR AREA INTAKE
○	CLEANOUT/WYE TO BUILDING SERVICE
○	SUDAS CIRCULAR STORM SEWER MANHOLE
○	SUDAS SW-403 AND SW-404 RECTANGULAR BASE STORM SEWER MANHOLE
□	AREA DRAIN
○	SEWER MANHOLE
●	GROUND SPOT
○	TOP OF PAVEMENT
○	TOP OF CURB
○	BOTTOM OF FACE OF CURB
○	TOP OF WALL
○	BOTTOM OF WALL
○	EXISTING GROUND
○	TOP OF PAD ELEVATION
○	TOP OF CLEANOUT
○	RIM ELEVATION
○	HIGH POINT
○	DOOR STOOP

- NOTE:**
1. STORM CATCH BASIN RIMS SHOWN IN FUTURE DEVELOPMENT AREAS ARE 6" LOWER THAN FINAL RIM ELEVATIONS.
 2. SEE DETAIL 8, 9, 10 ON SHEET C-F-03 FOR DETAILED GRADING AT PEDESTRIAN DOORS.
 3. SEE DETAIL 7 ON SHEET C-F-08 FOR LOADING DOCK TRENCH DRAIN SECTION.

Page/
 Page: Southland Page, Inc.
 400 W. Clear Creek Street Fifth Floor
 Austin, TX 78701
 page@page.com
 Tel: 512.472.8211
 Fax: 512.472.8211
 ARCHITECTURE/ENGINEERING/CONSULTANTS
 Health / Safety / Environment / Planning / Washington DC / International Affairs Offices



Microsoft
DSM 08
DATA CENTER
 550 SE WHITE CRANE ROAD
 WEST DES MOINES, IA 50265

Design Team

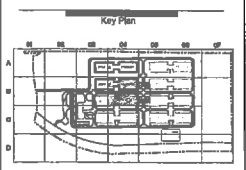
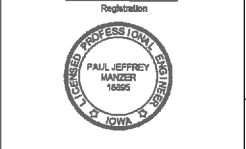
Design	L. HAMMER / L.A. HAMMER
Draw	A. SCHMIDT
Check	J. GARDNER
Date	04 SEPTEMBER 2016
INLAND PROJECT NO.	1601008
INLAND PROJECT FILE	P.0208

Approvals

Client	MICROSOFT
Microsoft Technical Engineer	STEVE WANGSA
Microsoft Code Engineer	ERIC BEAL
Microsoft Desktop Engineer	STEVE STEINERT
Microsoft Storage	ANDREW TAYLOR
Microsoft Storage	ERIK YANZ
Microsoft Storage	ROCKFORD

Revisions

No.	Date	Description
1	2016.07.24	50% R/C



Sheet Title/Number
 CIVIL
 FINISHED GRADING
 PLAN
 C-D2-B04



CITY OF WEST DES MOINES
 APPROVED BY: _____ DATE: _____



DSM 08 DATA CENTER

550 SE WHITE CRANE ROAD
WEST DES MOINES, IA 52265

Design Team

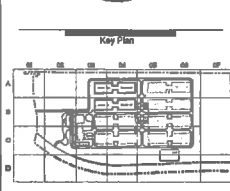
Owner	L.H. MULLER & ASSOCIATES
Architect	L.H. MULLER & ASSOCIATES
Contractor	T. DORRIS
Date	18 SEPTEMBER 2008
Project/Phase	MECHANICAL
Scale/Sheet No.	1/8" = 1'-0" / 1/8" = 1'-0"

Approvals

Client	MICROSOFT
MECHANICAL ENGINEER	PETER WANGSA
MECHANICAL ENGINEER	ERIC SEAL
MECHANICAL ENGINEER	STEVE STEWART
Engineering Manager	ANDREW TAYLOR
Design Manager	ERIC VANCE
Check	ERIC VANCE
Design Team	
MECHANICAL ENGINEER	JASON GILBERT PAGE
MECHANICAL ENGINEER	BYRAN HAYWOOD PAGE
MECHANICAL ENGINEER	STEVE PERCE/PAULAND
MECHANICAL ENGINEER	DAVID BROWN PLS
MECHANICAL ENGINEER	JOHN CURRY PAGE
MECHANICAL ENGINEER	CAMERON BROWN PAGE
MECHANICAL ENGINEER	ANDY BARTLEY PAGE
MECHANICAL ENGINEER	MATE OLBIV PEARLINS
MECHANICAL ENGINEER	PETE BREZINSKI

Revisions

No.	Date	Description
1	2010.01.24	ISSUE FOR CONSTRUCTION

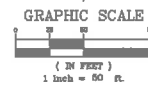
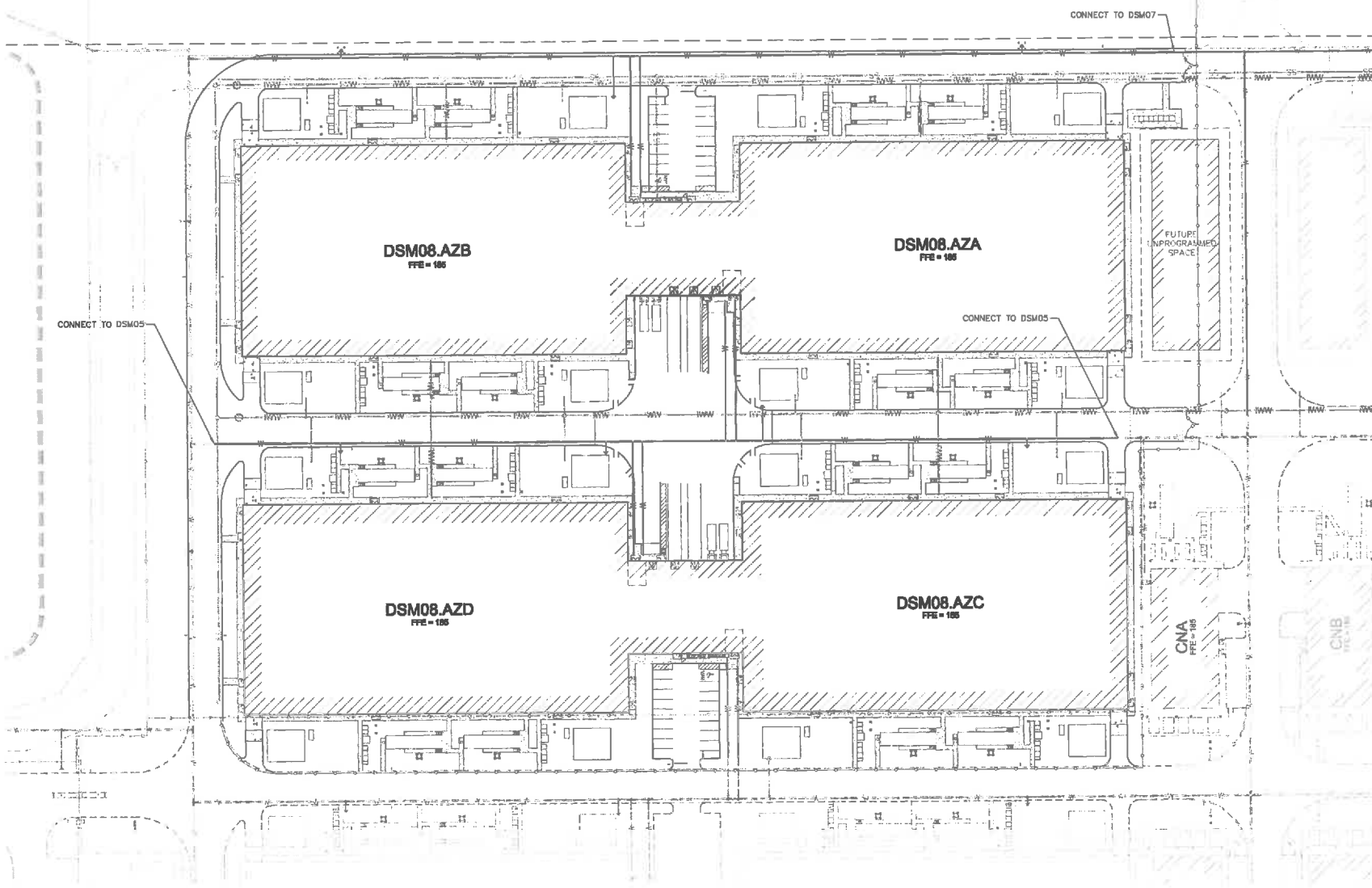


CONFIDENTIAL - TRADE SECRETS - DO NOT DISCLOSE
This information contains confidential proprietary "trade secrets" as defined in the Iowa Uniform Trade Secrets Act and is provided pursuant to a provision of confidentiality.

CIVIL
WATER PLAN
OVERALL

C-EI-01

PINE AVE



CITY OF WEST DES MOINES STANDARD NOTES

- ALL WATER WORK, PUBLIC OR PRIVATE, SHALL BE DONE IN ACCORDANCE WITH WEST DES MOINES WATER WORKS STANDARD SPECIFICATIONS.
- CONTRACTOR SHALL NOTIFY WEST DES MOINES WATER WORKS AT LEAST ONE WEEK PRIOR TO BUILDING CONSTRUCTION.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF WORK OF ALL SUBCONTRACTOR(S) INVOLVED IN THE PROJECT.
- CONTACT BUILDING INSPECTION (515-222-3630) A MINIMUM OF 24 HOURS IN ADVANCE FOR PRIVATE UTILITY INSTALLATION INSPECTIONS.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE WEST DES MOINES WATER WORKS AND THE CITY'S CROSS CONNECTION CONTROL/CONTAINMENT PROVISION (UTILITY SHEET ONLY).
- DESIGNATED BUFFERS SHALL BE LABELED AS A "NO BUILD AREA".

GENERAL NOTES

- DIMENSIONS AND COORDINATES ARE TO FACE OF CURB (TYP).
- UTILITY INSTALLATION INCLUDES TRENCHING, PIPE BEDDING AND BACKFILL, REINSTATE SURFACE TO ORIGINAL CONDITION SHOWN ON SITE IMPROVEMENTS PLAN.
- PROVIDE THRUST BLOCKS/JOINT RESTRAINTS ON ALL PRESSURIZED LINES. SEE DETAIL 4/C-F-11 FOR JOINT RESTRAINTS.
- FIELD VERIFY LIMITS OF DEMOLITION & LOCATION OF UTILITIES TO BE REMOVED.
- FIELD VERIFY CONNECTION POINTS TO EXISTING UTILITIES. NOTIFY ENGINEER OF DISCREPANCIES FROM PLAN OF RECORD.
- EXISTING GRADES SHOWN ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED.
- CONTRACTOR RESPONSIBLE TO MAINTAIN POSITIVE DRAINAGE TO STORM DRAIN SYSTEM UNTIL PERMANENT STORM DRAIN SYSTEM IS INSTALLED.
- ROADWAY AND PAVEMENT STRIPING SHOWN IN APPROXIMATE LOCATIONS, SCALE DRAWING FOR PLACEMENT.
- TELECOM, ELECTRICAL & LSS SHOWN FOR REFERENCE ONLY. FIELD VERIFY LOCATIONS PRIOR TO EXCAVATION.
- ADJUST UTILITY STRUCTURES (PIV'S, HYDRANTS, MH'S, CB'S, VAULTS ETC) TO FINISH GRADE WHEN COMPLETING FINAL GRADING. ELECTRICAL AND TELECOM VAULTS TO BE ADJUSTED TO FINISHED GRADE WITH GRADE RINGS.
- UNLESS OTHERWISE DIRECTED BY THE OWNER OR BY THE A/E, THE CONTRACTOR SHALL REPLACE, IN KIND, ALL BASE, AC PAVING, CONCRETE CURBS, GUTTERS AND SIDEWALKS, UTILITIES, LANDSCAPING, AND IRRIGATION LINES, NOT INTENDED FOR DEMOLITION, BUT WHICH HAVE BEEN REMOVED OR DISTURBED AS A RESULT OF DEMOLITION ACTIVITIES.
- WHERE DEMOLITION OCCURS AND NO SPECIFIC INSTRUCTIONS ARE MADE CONCERNING NEW OR REPLACEMENT FEATURES, THE CONTRACTOR SHALL RESTORE THE AREA TO A FINISHED CONDITION USING MATERIALS MATCHING THOSE ADJACENT TO THE REMOVAL SITE, HAVING SURE PROPER DRAINAGE AND APPEARANCE IS ATTAINED.
- COORDINATE INSTALLATION OF ELECTRICAL GROUNDING GRID AT SITE & BLDG SLABS, FENCING AND WALLS WITH ELECTRICAL DRAWINGS.
- SEE LANDSCAPE PLANS FOR SEEDING AND ROCK SURFACING.

WATER APPURTENANCES (FOR WDMWW USE)

16" CS90 PVC PIPE	3186 LF
8" CS90 PVC PIPE	494 LF
8" DI PIPE	0 LF
8" DI PIPE	172 LF
4" CS90 PVC PIPE	494 LF
4" DI PIPE	0 LF
2.5" CP PIPE	0 LF
16"X16" CROSS W/ BLOCKING	0
16"X10" TEE W/ BLOCKING	2
16"X8" TEE W/ BLOCKING	5
16"X6" TEE W/ BLOCKING	13
16"X4" TEE W/ BLOCKING	0
16"X2.5" SERVICE SADDLE	0
8"X4" TEE W/ BLOCKING	0
16" 90° BEND W/ BLOCKING	1
4" 90° BEND W/ BLOCKING	0
4" 90° BEND W/ BLOCKING	0
FIRE DEPARTMENT CONNECTION (FDC)	2
16" GATE VALVE	24
8" GATE VALVE	0
4" GATE VALVE	13
2.5" GATE VALVE	0
16" PLUGS	1
8" PLUGS	1
4" PLUGS	1
2.5" CAP	1
16" BLOW OFF ASSEMBLY	1

WATER NOTES

- WATER MAIN PIPE WILL TYPICALLY BE EITHER POLYVINYL CHLORIDE (PVC) PIPE OR DUCTILE IRON PIPE (DIP); AND MEET AWWA STANDARDS. WHERE DISTRIBUTION SYSTEMS AND SERVICE CONNECTIONS ARE INSTALLED IN AREAS OF GROUNDWATER CONTAMINATION BY ORGANIC COMPOUNDS, PIPE AND JOINT MATERIALS (NON-PVC PIPE) THAT DO NOT ALLOW PERMEATION OF THE ORGANIC COMPOUNDS SHOULD BE USED.
- WATER MAINS SHOULD BE EXTENDED TO THE PLAT OR PROPERTY BOUNDARIES, TO THE NEXT STREET, OR AS DIRECTED BY THE JURISDICTION.
- NEW MAIN INSTALLATION SHOULD BE IN THE PARKING AREA (BETWEEN THE CURB AND THE PROPERTY LINE) OF THE RIGHT-OF-WAY AND MINIMUM OF 4 FEET BEHIND THE CURB. WHERE POSSIBLE, WATER MAINS SHOULD BE LOCATED ALONG THE SOUTH AND EAST SIDES OF THE STREET.
- DEAD-ENDS SHOULD BE MINIMIZED BY LOOPING MAINS WHENEVER POSSIBLE. DEAD-ENDS SHOULD TERMINATE WITH AN APPROVED FLUSHING DEVICE (BLOW-OFF, HYDRANT, FLUSHING HYDRANT). THEY MAY TERMINATE WITH AN APPROVED FIRE HYDRANT WHEN ADEQUATE PRESSURE IS AVAILABLE AT REQUIRED FLOWS. FOR MAINTENANCE CONSIDERATIONS AND WHEN ADEQUATE FIRE FLOWS ARE NOT AVAILABLE, FLUSHING HYDRANTS MAY BE ALLOWED BY THE JURISDICTION WITH THE HYDRANT OUTLET SIZED AND ARRANGED TO PREVENT THE ATTACHMENT OF FIRE HOSES. UNLESS REQUIRED BY A JURISDICTION, PERMANENT INLINE SHUT-OFF VALVES SHOULD NOT BE PLACED AT THE END OF DEAD-END MAINS.
- WATER MAINS AND EXTENSIONS SHOULD BE DESIGNED WITH A MINIMUM COVER OF FIVE (5) FEET, UNLESS MORE OR LESS COVER HAS BEEN APPROVED BY THE JURISDICTION ENGINEER.
- A BLOWOFF OR APPROVED FLUSHING DEVICE SHOULD BE REQUIRED ON ALL DEAD-END MAINS WHERE A HYDRANT IS NOT INSTALLED. THE MINIMUM RISER ASSEMBLY SIZE SHOULD BE NO LESS THAN 2 DIAMETER SIZES SMALLER THAN THE DIAMETER OF THE WATER MAIN. WHEN THE WATER MAIN IS EXTENDED, THE BLOWOFF SHOULD BE REMOVED. A NEW VALVE SHOULD BE PLACED BETWEEN THE EXISTING AND EXTENDED MAIN.
- AS A MINIMUM, VALVES SHOULD BE LOCATED AT INTERSECTIONS, SUCH THAT ONLY ONE UNVALVED PIPE EXISTS AT THE INTERSECTION. VALVES SHOULD BE EQUALLY SPACED, IF POSSIBLE, WITH SPACING NO MORE THAN 800 FEET IN RESIDENTIAL AREAS AND NO MORE THAN 400 FEET IN HIGH DENSITY AREAS. VALVES SHOULD NOT BE LOCATED IN THE SIDEWALK LINE OR IN DRIVEWAYS AND ALL VALVES SHOULD BE INSTALLED WITH VALVE BOXES.
- NO VALVES (EXCEPT BLOWOFF VALVES) SHOULD BE PLACED AT THE END OF A DEAD-END MAIN UNLESS REQUIRED BY A JURISDICTION. A VALVE SHOULD BE INSTALLED BETWEEN THE EXISTING MAIN AND NEW MAIN WHEN THE MAIN IS EXTENDED. INTERMEDIATE VALVES MAY BE REQUIRED BY THE JURISDICTION TO PROVIDE REQUIRED VALVE SPACING. A TAPPING SLEEVE AND VALVE SHOULD BE USED WHEN MAKING A PERPENDICULAR CONNECTION TO AN EXISTING MAIN.
- HYDRANTS SHOULD COMPLY WITH AWWA C502. THE CONNECTING PIPE BETWEEN THE SUPPLY MAIN AND THE HYDRANTS SHOULD BE A MINIMUM OF 6 INCHES IN DIAMETER AND BE INDEPENDENTLY VALVED. FIRE HYDRANTS SHOULD NOT BE INSTALLED ON WATER MAINS THAT DO NOT PROVIDE MINIMUM PRESSURE.
- HYDRANT DRAINS SHOULD NOT BE CONNECTED TO OR LOCATED WITHIN 10 FEET OF SANITARY SEWERS. LOCATIONS OF FIRE HYDRANTS ARE GOVERNED BY THE RULES AND REGULATIONS OF THE IDNR AND THE LOCAL JURISDICTION. SEE DESIGN MANUAL, CHAPTER 4 SECTION E.
- WATER SERVICE STUBS FOR EACH BUILDING OR PLATTED LOT SHOULD BE PROVIDED, INCLUDING CORPORATE STOP, SERVICE LINE, AND CURB STOP WITH BOX. THE SERVICE STUB FROM THE WATER MAIN TO THE SHUT-OFF WILL NORMALLY BE 6 FEET FROM THE PROPERTY LINE OR 1 FOOT FROM THE STREET SIDE OF SIDEWALK.
- BEFORE GOING INTO SERVICE, ALL NEW MAINS SHALL BE ADEQUATELY FLUSHED, PRESSURE TESTED, AND DISINFECTED ACCORDING TO THE RULES AND REGULATIONS OF THE LOCAL JURISDICTION AND THE IDNR. THE PROCEDURES, ONCE APPROVED BY THE JURISDICTION, SHOULD BE CONDUCTED UNDER THE SUPERVISION OF THE JURISDICTION OR DESIGNATED REPRESENTATIVE.

SANITARY SEWER NOTES

- PIPE SIZES 15 INCHES AND SMALLER SHOULD CARRY THE PEAK FLOW AT A DEPTH OF NO MORE THAN 0.67 OF THE PIPE DIAMETER. PIPE SIZES GREATER THAN 15 INCHES SHOULD CARRY THE PEAK FLOW AT A DEPTH OF NO MORE THAN 0.75 OF THE PIPE DIAMETER.
- PUBLIC SEWERS SHOULD HAVE A SUFFICIENT GRADE TO MAINTAIN 2 FPS AT PEAK FLOW. MINIMUM GRADE ON BUILDING SANITARY SEWER STUBS SHOULD BE 1/8 INCH PER FOOT.
- GRAVITY SANITARY SEWERS SHOULD NOT BE LESS THAN 8 INCHES IN DIAMETER. MINIMUM SIZE OF BUILDING SANITARY SEWER STUB SHOULD BE 4 INCHES IN DIAMETER FOR RESIDENTIAL AND 6 INCHES IN DIAMETER FOR COMMERCIAL. THE SIZE WILL INCREASE BASED ON THE PROPOSED NUMBER OF FIXTURES THAT THE SEWER STUB SERVES.
- SANITARY SEWER CROSSINGS OF STORM SEWERS SHOULD HAVE NO LESS THAN 6 INCHES OF CLEARANCE. SPECIAL STRUCTURAL SUPPORT WILL BE REQUIRED IF THERE IS LESS THAN 18 INCHES CLEARANCE. THE MINIMUM HORIZONTAL CLEARANCE SHOULD BE 5 FEET. CLEARANCE REFERS TO THE DISTANCE FROM THE OUTSIDE OF THE SANITARY SEWER PIPE TO THE OUTSIDE OF THE STORM SEWER PIPE.
- GRAVITY SEWER MAINS SHALL BE SEPARATED FROM WATER MAINS BY A HORIZONTAL DISTANCE OF AT LEAST 10 FEET UNLESS, THE TOP OF A SEWER MAIN IS AT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER MAIN, AND THE SEWER IS PLACED IN A SEPARATE TRENCH OR IN THE SAME TRENCH ON A BENCH OF UNDISTURBED EARTH AT A MINIMUM HORIZONTAL SEPARATION OF 3 FEET FROM THE WATER MAIN.
- SEPARATION OF SEWER AND WATER MAIN CROSSOVERS: VERTICAL SEPARATION OF SANITARY SEWERS CROSSING UNDER ANY WATER MAIN SHOULD BE AT LEAST 18 INCHES WHEN MEASURED FROM THE TOP OF THE SEWER TO THE BOTTOM OF THE WATER MAIN. IF PHYSICAL CONDITIONS PROHIBIT THE SEPARATION, THE SEWER MAY BE PLACED NOT CLOSER THAN 8 INCHES BELOW A WATER MAIN OR 18 INCHES ABOVE A WATER MAIN. THE SEPARATION DISTANCE SHALL BE THE MAXIMUM FEASIBLE IN ALL CASES.
- SHOULD PHYSICAL CONDITIONS EXIST SUCH THAT EXCEPTIONS ARE NECESSARY, THE DESIGN ENGINEER MUST DETAIL HOW THE SEWER AND WATER MAIN ARE TO BE ENGINEERED TO PROVIDE PROTECTION EQUAL TO THAT REQUIRED.
- MANHOLES IN STREET RIGHT OF WAY MUST BE LOCATED IN AREAS WHICH ALLOW DIRECT ACCESS BY MAINTENANCE VEHICLES. AREAS OUTSIDE THE STREET RIGHT OF WAY SHOULD BE SUBJECT TO THE APPROVAL OF THE JURISDICTIONAL ENGINEER.
- THE MINIMUM SIZE FOR A MANHOLE IS 48 INCHES IN DIAMETER. CHECK MANHOLE SIZE ACCORDING TO SECTION 3C-1. MOST JURISDICTIONS REQUIRE ECCENTRIC MANHOLES, WITHOUT BUILT-IN STEPS, WITH THE MANHOLE OPENING OVER THE CENTERLINE OF THE PIPE OR ON AN OFFSET NOT TO EXCEED 12 INCHES.
- ANY SERVICE LINE CONNECTIONS TO MANHOLES REQUIRE APPROVAL FROM THE JURISDICTION. THE SERVICES MAY NOT ENTER THE MANHOLE AT GREATER THAN 2 FEET ABOVE THE INVERT OF THE OUTLET. SEWER FLOW CHANNELS IN THE MANHOLE BOTTOM MUST BE PROVIDED FOR ALL SERVICES.

WATER MAIN SHALL BE INSTALLED AT MINIMUM 5' OF COVER



CONTRACTOR SHALL NOTIFY WEST DES MOINES WATER WORKS, RALPH RENTERIA, ENGINEERING TECHNICIAN (515-222-3465) WITHIN 24 HOURS OF INSTALLATION AND TESTING OF ALL BACKFLOW DEVICES TO SCHEDULE FINAL INSPECTION.

CITY OF WEST DES MOINES
APPROVED BY: _____ DATE: _____

Page Southland Page, Inc.
450 W. César Chávez Street 3rd Floor
Austin, TX 78701
page@page.com
Tel. 512.472.8211
Fax. 512.472.3211
Architectural Services in a national consulting
office / Offices / Denver / Houston, Washington DC /
International Office

LAND
11400 SE 9th St. T (509) 493-9901
3800 3rd F (509) 493-8208
Bellevue, WA 98004 www.PdL.com



DSM 08
DATA CENTER
550 SE WHITE CRANE ROAD
WEST DES MOINES, IA 50265

Design Team

Design	Lead Designer
Design	ANDREW J. HARRIS
Check	ANDREW J. HARRIS
Draw	ANDREW J. HARRIS
Date	12/20/07
Project No.	07-001
Scale	AS SHOWN

Approvals

Signature	Professional Title
	REGISTERED PROFESSIONAL ENGINEER
	REGISTERED PROFESSIONAL ENGINEER
	REGISTERED PROFESSIONAL ENGINEER
	REGISTERED PROFESSIONAL ENGINEER
	REGISTERED PROFESSIONAL ENGINEER
	REGISTERED PROFESSIONAL ENGINEER
	REGISTERED PROFESSIONAL ENGINEER
	REGISTERED PROFESSIONAL ENGINEER

No.	Date	Description
1	2012.07.24	100% R/C

Revisions

No.	Date	Description
1	2012.07.24	100% R/C



Key Plan

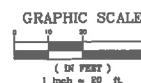


Bar Code
CONFIDENTIAL - TRADE SECRET - DO NOT DISCLOSE.
This information constitutes confidential proprietary "trade secret" as defined in the Iowa Uniform Trade Secrets Act and is provided pursuant to a promise of confidentiality.

Sheet Title/Number

CIVIL
WATER AND
SEWER PLAN

C-EI-A03



LEGEND

Symbol	Description
	PROPERTY LINE
	PROPOSED BUILDING
	DOMESTIC WATER PIPE
	INDUSTRIAL TREATED WATER PIPE
	TEE/BEND W/ THRUST BLOCKING
	GATE VALVE
	FIRE HYDRANT
	VERTICAL BENDS
	EX. SANITARY SEWER PIPE
	EX. INDUSTRIAL WASTE WATER PIPE
	EX. HW/SANITARY SEWER MANHOLE
	CLEANOUT

FITTING SCHEDULE

- 1 CONNECT TO FUTURE 16" CITY WATER MAIN
- 2 1-16"x16" TAPPING TEE (FL+MJ)
- 3 1-16" GATE VALVE (FL+MJ)
- 4 THRUST BLOCKING W/ MARKER
- 5 1-16"x16" TEE (FL)
- 6 3-16" GATE VALVE (FL+MJ)
- 7 THRUST BLOCKING
- 8 1-12"x8" TEE (FL+MJ)
- 9 1-8" GATE VALVE (FL+MJ)
- 10 THRUST BLOCKING
- 11 1-16"x8" TEE (FL)
- 12 2-16" GATE VALVE (FL+MJ)
- 13 1-8" ADAPTOR (FL+MJ)
- 14 THRUST BLOCKING
- 15 1-8"x8" TEE (FL+MJ)
- 16 1-8" PLUG (MJ)
- 17 1-8" GATE VALVE (FL+MJ)
- 18 THRUST BLOCKING
- 19 1-12"x8" TEE (FL)
- 20 2-16" GATE VALVE (FL+MJ)
- 21 1-8" ADAPTOR (FL+MJ)
- 22 THRUST BLOCKING
- 23 1-8"x8" TEE (FL)
- 24 1-8" PLUG (MJ) W/ MARKER
- 25 THRUST BLOCKING
- 26 1-8"x8" TEE (FL)
- 27 1-8" PLUG (MJ) W/ MARKER
- 28 THRUST BLOCKING
- 29 1-8" PLUG (MJ) W/ MARKER
- 30 THRUST BLOCKING
- 31 1-12" MJ CONNECTION (REMOVE PLUG/THRUST BLOCKING AND CONNECT TO EXISTING FROM PHASE 3)
- 32 WALL MOUNTED FIRE DEPARTMENT CONNECTION (SEE MEP FOR SERVICE INFORMATION)
- 33 1-8" MJ CONNECTION (REMOVE PLUG/THRUST BLOCKING AND CONNECT TO EXISTING FROM PHASE 3)
- 34 1-2" DOMESTIC WATER METER W/ THERMAL COIL METER 1-2" RPBA W/ HOT BOX
- 35 1-FIRE HYDRANT ASSEMBLY (REMOVE PLUG/THRUST BLOCKING AND CONNECT TO EXISTING FROM PHASE 3)
- 36 1-4" MJ CONNECTION (REMOVE PLUG/THRUST BLOCKING AND CONNECT TO EXISTING FROM PHASE 3)
- 37 1-12"x16" REDUCER (M+MJ)
- 38 (REMOVE PLUG/THRUST BLOCKING AND CONNECT TO EXISTING FROM PHASE 1)
- 39 1-4" 45° BEND (MJ)
- 40 THRUST BLOCKING
- 41 1-8" 45° BEND (MJ)
- 42 THRUST BLOCKING

SEE SHEET C-C2-A04 FOR CONTINUATION

SEE SHEET C-C1-B03 FOR CONTINUATION

SEE SHEET C-C1-B03 FOR CONTINUATION

SEE SHEET C-C1-B03 FOR CONTINUATION

SEE SHEET C-C1-B03 FOR CONTINUATION

SEE SHEET C-C1-B03 FOR CONTINUATION

SEE SHEET C-C1-B03 FOR CONTINUATION

SEE SHEET C-C1-B03 FOR CONTINUATION

SEE SHEET C-C1-B03 FOR CONTINUATION

SEE SHEET C-C1-B03 FOR CONTINUATION

SEE SHEET C-C1-B03 FOR CONTINUATION

SEE SHEET C-C1-B03 FOR CONTINUATION

SEE SHEET C-C1-B03 FOR CONTINUATION

SEE SHEET C-C1-B03 FOR CONTINUATION

SEE SHEET C-C1-B03 FOR CONTINUATION

SEE SHEET C-C1-B03 FOR CONTINUATION

SEE SHEET C-C1-B03 FOR CONTINUATION

SEE SHEET C-C1-B03 FOR CONTINUATION

SEE SHEET C-C1-B03 FOR CONTINUATION

SEE SHEET C-C1-B03 FOR CONTINUATION



CITY OF WEST DES MOINES

APPROVED BY: DATE:

APPROVED BY: DATE:

APPROVED BY: DATE:

APPROVED BY: DATE:

APPROVED BY: DATE:

APPROVED BY: DATE:

APPROVED BY: DATE:

APPROVED BY: DATE:

APPROVED BY: DATE:

SEE SHEET C-C1-B03 FOR CONTINUATION

DSM08.AZB
FFE = 185

CONNECT EX. SSCO TO BUILDING
(SEE MEP FOR CONTINUATION)
8" IE 178.00

CONNECT EX. SSCO TO BUILDING
(SEE MEP FOR CONTINUATION)
8" IE 178.00

N: 553484.16
E: 1583608.56

N: 553491.14
E: 1583608.51

N: 553483.23
E: 1583608.88

118 LF 12" CS80

246 LF 12" CS80

N: 553341.17
E: 1583608.5

N: 553333.26
E: 1583491.39

N: 553341.17
E: 1583608.5

N: 553341.17
E: 1583608.5

N: 553341.17
E: 1583608.5

N: 553341.17
E: 1583608.5

N: 553341.17
E: 1583608.5

N: 553341.17
E: 1583608.5

N: 553341.17
E: 1583608.5

N: 553341.17
E: 1583608.5

N: 553341.17
E: 1583608.5

N: 553341.17
E: 1583608.5

N: 553341.17
E: 1583608.5

N: 553341.17
E: 1583608.5

N: 553341.17
E: 1583608.5

N: 553341.17
E: 1583608.5

N: 553341.17
E: 1583608.5

N: 553341.17
E: 1583608.5

N: 553341.17
E: 1583608.5

N: 553341.17
E: 1583608.5

N: 553341.17
E: 1583608.5

N: 553341.17
E: 1583608.5

N: 553341.17
E: 1583608.5

N: 553341.17
E: 1583608.5

N: 553341.17
E: 1583608.5

N: 553341.17
E: 1583608.5

N: 553341.17
E: 1583608.5

N: 553341.17
E: 1583608.5

N: 553341.17
E: 1583608.5

N: 553341.17
E: 1583608.5

N: 553341.17
E: 1583608.5

N: 553341.17
E: 1583608.5

N: 553341.17
E: 1583608.5

N: 553341.17
E: 1583608.5



12400 SE 8th St.
 Suite 305
 Bellevue, WA 98004

T (206) 453-9501
 F (206) 453-6208
 www.PCL.com

Microsoft

**DSM 08
 DATA CENTER**
 550 SE WHITE CRANE ROAD
 WEST DES MOINES, IA 50265

Design Team

Drawn	L. PALMER / LALANRINE
Check	J. ALKOUTAS
Checked	T. DUNN
Date	10/27/2016 09:54
Project	DSM 08 DATA CENTER
Scale	AS SHOWN

Approvals

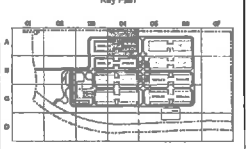
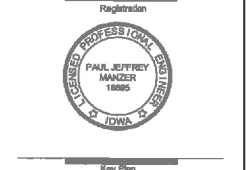
Author	MECHSUOFF	Date	
Checked	L. PALMER / LALANRINE	Date	
Design Engineer	STEVE HAYWOOD	Date	
Senior Engineer	STEVE HAYWOOD	Date	
Project Manager	ANDREW TAYLOR	Date	
Quality Manager	ERIC YAUSS	Date	
Scale	AS SHOWN	Date	

DESIGN TEAM

Chief Designer	JASON GILBERT PAGE	Date	
Principal Designer	STEVE HAYWOOD PAGE	Date	
Principal Engineer	STEVE HAYWOOD PAGE	Date	
Senior Engineer	DAVID BROWN PAGE	Date	
Senior Engineer	CAMERON BROWN PAGE	Date	
Senior Engineer	JOHN CLUNNEY PAGE	Date	
Senior Engineer	ANDY BAXTER PAGE	Date	
Senior Engineer	MATE ELIAS SPALINGO	Date	
Senior Engineer	PIETE BRETZKE PAGE	Date	

Revisions

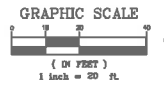
No.	Date	Description	By
1	2016.07.24	10% EDC	



Sheet Title/Author

**CIVIL
 WATER AND
 SEWER PLAN**

C-EI-A04



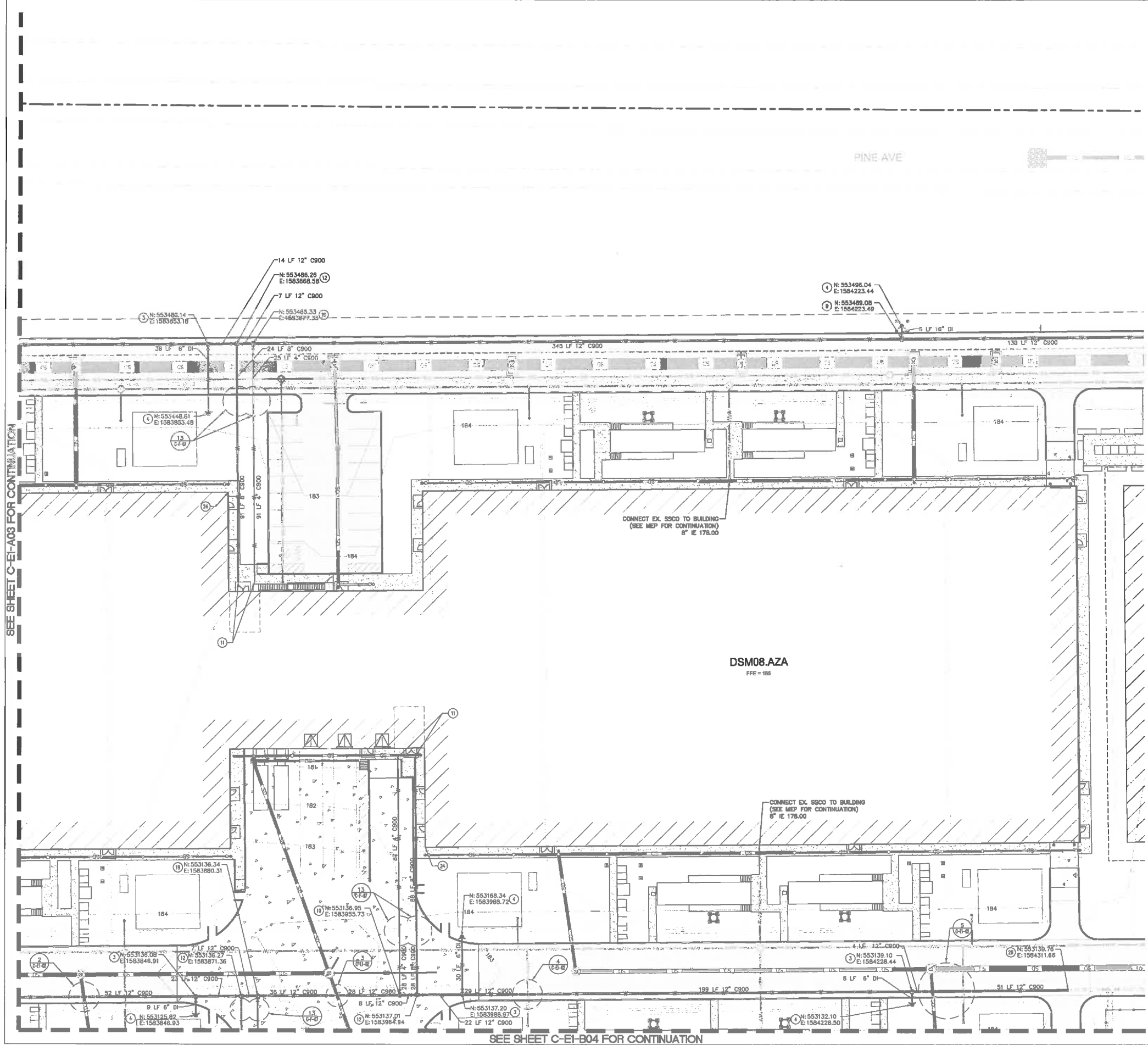
LEGEND

	PROPERTY LINE
	PROPOSED BUILDING
	DOMESTIC WATER PIPE
	INDUSTRIAL TREATED WATER PIPE
	TEE/BEND W/ THRUST BLOCKING
	GATE VALVE
	FIRE HYDRANT
	VERTICAL BENDS
	EX. SANITARY SEWER PIPE
	EX. INDUSTRIAL WASTE WATER PIPE
	EX. IWW/SANITARY SEWER MANHOLE
	CLEANOUT

FITTING SCHEDULE

- CONNECT TO FUTURE 16" CITY WATER MAIN
- 1-16"x16" TAPPING TEE (FLxMJ)
- 1-16" GATE VALVE (FLxMJ) THRUST BLOCKING W/ MARKER
- 1-16"x16" TEE (FL)
- 3-16" GATE VALVE (FLxMJ) THRUST BLOCKING
- 1-12"x6" TEE (FLxMJ)
- 1-6" GATE VALVE (FLxMJ) THRUST BLOCKING
- 1-FIRE HYDRANT ASSEMBLY
- 1-16"x6" TEE (FL)
- 2-16" GATE VALVE (FLxMJ) 1-8" ADAPTOR (FLxMJ) THRUST BLOCKING
- 1-8"x6" TEE (FLxMJ)
- 1-8" GATE VALVE (FLxMJ) THRUST BLOCKING
- 1-16"x6" TEE (FL)
- 2-16" GATE VALVE (FLxMJ) 1-8" GATE VALVE (FLxMJ) THRUST BLOCKING
- 1-12" 90° BEND (MJ) THRUST BLOCKING
- 1-12"x6" TEE (FL)
- 1-12" GATE VALVE (FLxMJ) 1-8" GATE VALVE (FLxMJ) 1-12" ADAPTOR (FLxMJ) THRUST BLOCKING
- 1-12" 90° BEND (MJ) THRUST BLOCKING
- 1-12"x6" TEE (FL)
- 1-12" GATE VALVE (FLxMJ) 1-8" GATE VALVE (FLxMJ) 1-12" ADAPTOR (FLxMJ) THRUST BLOCKING
- 1-12" 90° BEND (MJ) THRUST BLOCKING
- 1-12"x4" TEE (FLxMJ) 1-4" GATE VALVE (FLxMJ) THRUST BLOCKING
- CONNECT TO BUILDING (SEE MEP FOR CONTINUATION)
- 1-12"x8" TEE (FL)
- 2-12" GATE VALVE (FLxMJ) 1-8" ADAPTOR (FLxMJ) THRUST BLOCKING
- 1-16" PLUG (MJ) W/ MARKER THRUST BLOCKING
- 1-8" GATE VALVE (FLxMJ) 1-12" ADAPTOR (FLxMJ) THRUST BLOCKING
- 1-12"x4" TEE (FLxMJ) 1-4" GATE VALVE (FLxMJ) THRUST BLOCKING
- CONNECT TO BUILDING (SEE MEP FOR CONTINUATION)
- 1-12"x8" TEE (FL)
- 2-12" GATE VALVE (FLxMJ) 1-8" ADAPTOR (FLxMJ) THRUST BLOCKING
- 1-16" PLUG (MJ) W/ MARKER & BLOW-OFF ASSEMBLY THRUST BLOCKING AND CONNECT TO EXISTING FROM PHASES)
- 1-16"x16" CROSS (FL)
- 4-16" GATE VALVE (FLxMJ) THRUST BLOCKING
- 1-16"x2.5" SERVICE SADDLE
- 1-2.5" GATE VALVE (RSOV) 1-2.5" CAP W/ MARKER
- 1-16"x4" TEE (FL)
- 1-16"x2.5" SERVICE SADDLE
- 1-4" GATE VALVE (FLxMJ)
- 1-2.5" GATE VALVE (RSOV) THRUST BLOCKING
- 1-4" 90° BEND (MJ) THRUST BLOCKING
- 1-12"x4" TEE (FL)
- 1-12" GATE VALVE (FLxMJ) 1-4" GATE VALVE (FLxMJ) 1-12" ADAPTOR (FLxMJ) THRUST BLOCKING
- 1-4" PLUG (MJ) W/ MARKER THRUST BLOCKING
- 1-8" PLUG (MJ) W/ MARKER THRUST BLOCKING
- 1-8" PLUG (MJ) W/ MARKER THRUST BLOCKING
- 1-12" MJ CONNECTION (REMOVE PLUG/THRUST BLOCKING AND CONNECT TO EXISTING FROM PHASE 3)
- WALL MOUNTED FIRE DEPARTMENT CONNECTION (SEE MEP FOR SERVICE INFORMATION)
- 1-8" MJ CONNECTION (REMOVE PLUG/THRUST BLOCKING AND CONNECT TO EXISTING FROM PHASE 3)
- 1-2" DOMESTIC WATER METER W/ THERMAL COIL METER 1-2" RPBA W/ HOT BOX
- 1-FIRE HYDRANT ASSEMBLY (REMOVE PLUG/THRUST BLOCKING AND CONNECT TO EXISTING FROM PHASE 3)
- 1-4" MJ CONNECTION (REMOVE PLUG/THRUST BLOCKING AND CONNECT TO EXISTING FROM PHASE 3)
- 1-12"x16" REDUCER (MJxMJ) (REMOVE PLUG/THRUST BLOCKING AND CONNECT TO EXISTING FROM PHASE 1)
- 1-4" 45° BEND (MJ) THRUST BLOCKING
- 1-8" 45° BEND (MJ) THRUST BLOCKING

SEE SHEET C-EI-A03 FOR CONTINUATION

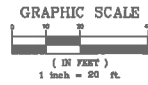
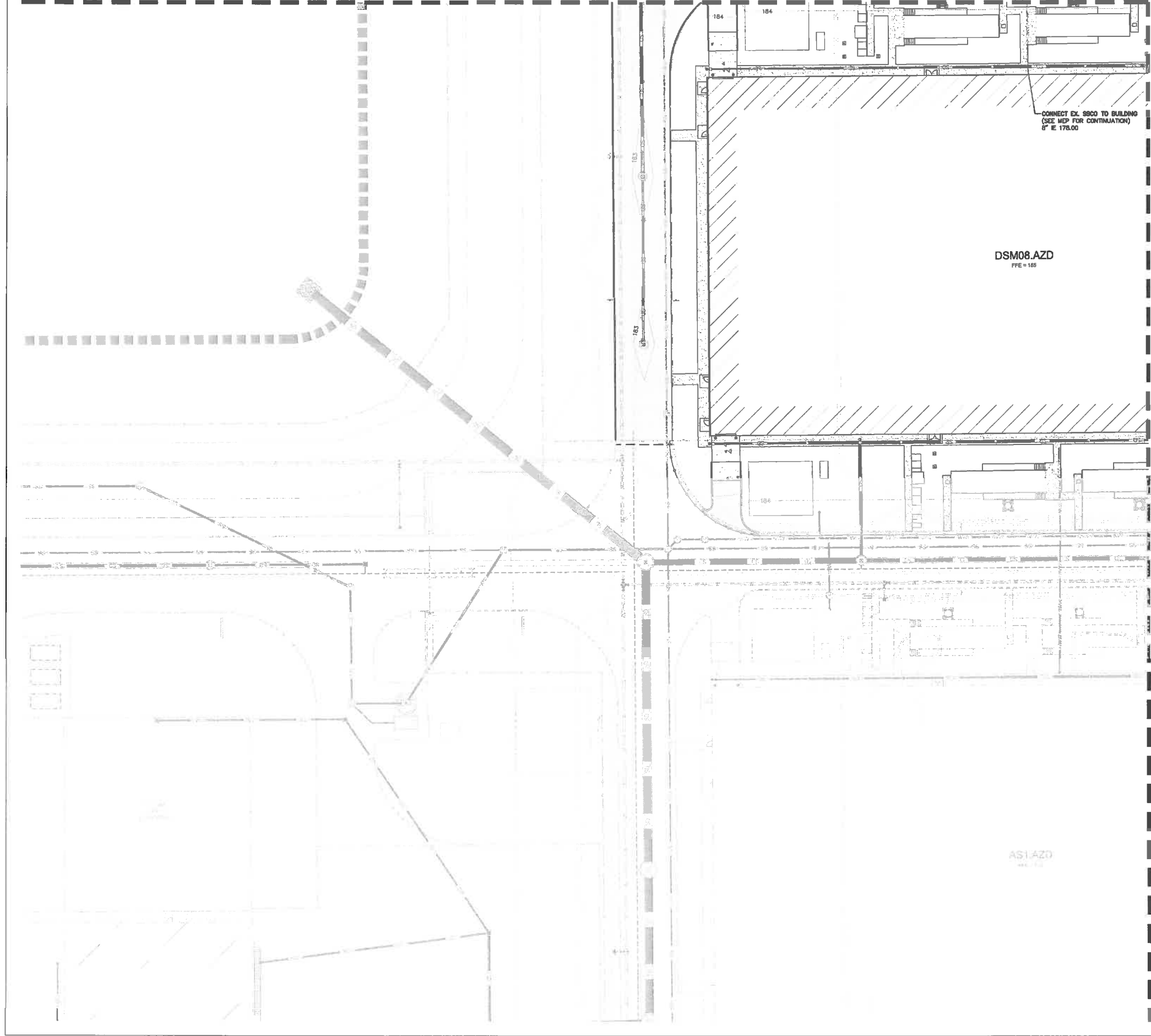


SEE SHEET C-EI-B04 FOR CONTINUATION



CITY OF WEST DES MOINES
 APPROVED BY: _____ DATE: _____

SEE SHEET C-EI-A03 FOR CONTINUATION



LEGEND

	PROPERTY LINE
	PROPOSED BUILDING
	DOMESTIC WATER PIPE
	INDUSTRIAL TREATED WATER PIPE
	TEE/BEND W/ THRUST BLOCKING
	GATE VALVE
	FIRE HYDRANT
	VERTICAL BENDS
	EX. SANITARY SEWER PIPE
	EX. INDUSTRIAL WASTE WATER PIPE
	EX. HW/SANITARY SEWER MANHOLE

FITTING SCHEDULE

- 1-CONNECT TO FUTURE 16" CITY WATER MAIN
- 1-16"x16" TAPPING TEE (FLxMJ)
- 1-16" GATE VALVE (FLxMJ)
- 1-16"x2.5" SERVICE SADDLE THRUST BLOCKING W/ MARKER
- 1-16"x16" TEE (FL)
- 3-16" GATE VALVE (FLxMJ) THRUST BLOCKING
- 1-12"x8" TEE (FLxMJ)
- 1-8" GATE VALVE (FLxMJ) THRUST BLOCKING
- 1-12"x8" TEE (FL)
- 1-FIRE HYDRANT ASSEMBLY
- 1-16"x8" TEE (FL)
- 2-16" GATE VALVE (FLxMJ)
- 1-8" ADAPTOR (FLxMJ) THRUST BLOCKING
- 1-8"x8" TEE (FLxMJ)
- 1-8" PLUG (MJ)
- 1-8" GATE VALVE (FLxMJ) THRUST BLOCKING
- 1-16"x8" TEE (FL)
- 2-16" GATE VALVE (FLxMJ)
- 1-8" GATE VALVE (FLxMJ) THRUST BLOCKING
- 1-12" 90° BEND (MJ) THRUST BLOCKING
- 1-12"x8" TEE (FL)
- 1-12" GATE VALVE (FLxMJ)
- 1-8" GATE VALVE (FLxMJ)
- 1-12" ADAPTOR (FLxMJ) THRUST BLOCKING
- 1-12"x8" TEE (FLxMJ)
- 1-4" GATE VALVE (FLxMJ) THRUST BLOCKING
- CONNECT TO BUILDING (SEE MEP FOR CONTINUATION)
- 1-12"x8" TEE (FL)
- 2-12" GATE VALVE (FLxMJ)
- 1-8" ADAPTOR (FLxMJ) THRUST BLOCKING
- 1-16" PLUG (MJ) W/ MARKER & BLOW-OFF ASSEMBLY (STUB FOR PHASES)
- 1-16"x16" CROSS (FL)
- 4-16" GATE VALVE (FLxMJ) THRUST BLOCKING
- 1-16"x2.5" SERVICE SADDLE
- 1-2.5" GATE VALVE (RSOV)
- 1-2.5" CAP W/ MARKER
- 1-16"x4" TEE (FL)
- 1-16"x2.5" SERVICE SADDLE
- 2-16" GATE VALVE (FLxMJ)
- 1-4" GATE VALVE (FLxMJ)
- 1-2.5" GATE VALVE (RSOV) THRUST BLOCKING
- 1-4" 90° BEND (MJ) THRUST BLOCKING
- 1-12"x4" TEE (FL)
- 1-12" GATE VALVE (FLxMJ)
- 1-4" GATE VALVE (FLxMJ)
- 1-12" ADAPTOR (FLxMJ) THRUST BLOCKING
- 1-4" PLUG (MJ) W/ MARKER THRUST BLOCKING
- 1-8" PLUG (MJ) W/ MARKER THRUST BLOCKING
- 1-8" GATE VALVE (FLxMJ) W/ MARKER THRUST BLOCKING
- 1-8" PLUG (MJ) W/ MARKER THRUST BLOCKING
- 1-12" MJ CONNECTION (REMOVE PLUG/THRUST BLOCKING AND CONNECT TO EXISTING FROM PHASE 3)
- WALL MOUNTED FIRE DEPARTMENT CONNECTION (SEE MEP FOR SERVICE INFORMATION)
- 1-8" MJ CONNECTION (REMOVE PLUG/THRUST BLOCKING AND CONNECT TO EXISTING FROM PHASE 3)
- 1-2" DOMESTIC WATER METER W/ THERMAL COIL METER 1-2" RPBA W/ HOT BDX
- 1-FIRE HYDRANT ASSEMBLY (REMOVE PLUG/THRUST BLOCKING AND CONNECT TO EXISTING FROM PHASE 3)
- 1-4" MJ CONNECTION (REMOVE PLUG/THRUST BLOCKING AND CONNECT TO EXISTING FROM PHASE 3)
- 1-12"x16" REDUCER (MJxMJ) (REMOVE PLUG/THRUST BLOCKING AND CONNECT TO EXISTING FROM PHASE 1)
- 1-4" 45° BEND (MJ) THRUST BLOCKING
- 1-8" 45° BEND (MJ) THRUST BLOCKING

Page/
 Page Southward Page, Inc.
 400 W. Clear Creek Street Fifth Floor
 Austin, TX 78701
 page@psd.com
 Tel: 512 472 8211
 Fax: 512 477 3211
 ARCHITECTURAL SERVICES / ENGINEERING CONSULTING
 Austin | Dallas | Denver | Houston | Washington DC |
 International Affiliates Offices

LAND
 15400 88th St.
 Suite 300
 Midvale, UT 84051
 T (801) 487-8888
 F (801) 487-8888
 www.land.com

Microsoft
DSM 08
DATA CENTER
 550 SE WHITE CRANE ROAD
 WEST DES MOINES, IA 50265

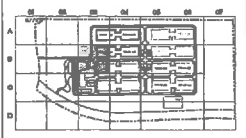
Design Team

Design	L. HAMBER / J. GARDNER
Draw	J. GARDNER
Check	J. GARDNER
Date	10 SEPTEMBER 2010
Project	Microsoft Data Center
U.S. Project No.	10-0000

Approvals

Client	Microsoft	Site
Microsoft Engineer	PETER WANGSA	City
Microsoft Civil Engineer	ERIC BEAL	County
Engineering Manager	STEVE STEINERT	State
Design Manager	ANDREW TAYLOR	City
City Engineer	ERIC YANEZ	County
City Engineer	ROCK PAGE	State
City Engineer	STEVE STEINERT	City
City Engineer	JASON GILBERT/PAGE	County
City Engineer	BRYAN HAYDOCK/PAGE	State
City Engineer	STEVE PERCIE/PACLAND	City
City Engineer	DAVID BROWN/PAGE	County
City Engineer	CAMERON BROWN/PAGE	State
City Engineer	JOHN CURRIE/PAGE	City
City Engineer	ANDY BARTON/PAGE	County
City Engineer	MATE ILLIEN/PACLAND	State
City Engineer	PETE BRITTON/ARG	City

Professional Engineer
 PAUL JEFFREY MANZER
 18895
 IOWA

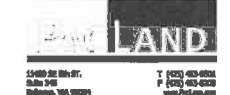


Bar Code
 CONFIDENTIAL - TRADE SECRET - DO NOT DISCLOSE
 This information contains confidential proprietary trade secrets as defined in the Iowa Uniform Trade Secrets Act and is provided pursuant to a promise of confidentiality.

CIVIL
WATER AND
SEWER PLAN
 Sheet Title/Number
C-EI-B03



CITY OF WEST DES MOINES
 APPROVED BY: _____ DATE: _____



**DSM 08
 DATA CENTER**
 550 SE WHITE CRANE ROAD
 WEST DES MOINES, IA 50265

Design Team

Design	L.FILIPPO/L.ANDREWS
Drawn	L.A.LANDREWS
Checked	L.A.LANDREWS
Date	11/11/2010
Project No.	1000000000
Sheet No.	P-0000

Approvals

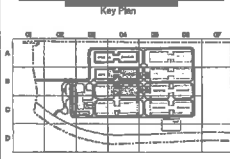
Client	MICROSOFT
Client Representative	PETER WANDER
Client Representative	ERIC SEAL
Client Representative	STEVE STEWART
Client Representative	ANDREW TAYLOR
Client Representative	ERIC YANZ
Client Representative	ROCK HASE

DESIGN TEAM

City Engineer	JASON GILBERT/PAGE
Professional Seal	BRYAN HAYWOOD/PAGE
Professional Seal	STEVE PERCIVAL/PAGE
Professional Seal	DAVID BRONKHORST/PAGE
Professional Seal	CAMERON BRONKHORST/PAGE
Professional Seal	JOHN CURRIE/PAGE
Professional Seal	ANDY BAXTER/PAGE
Professional Seal	MATE ELIOT/PAGE
Professional Seal	PETE BRETZKE/PAGE

Revisions

No.	Date	Description
1	2010.07.24	100% FC

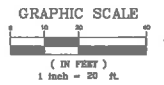


Confidential - Trade Secret - Do Not Disclose
 This information contains confidential proprietary trade secrets as defined in the Iowa Uniform Trade Secrets Act and is provided pursuant to a provision of confidentiality.

**CIVIL
 WATER AND
 SEWER PLAN**

C-EI-B04

SEE SHEET C-EI-A04 FOR CONTINUATION



LEGEND

---	PROPERTY LINE
---	PROPOSED BUILDING
---	DOMESTIC WATER PIPE
---	INDUSTRIAL TREATED WATER PIPE
---	TEE/BEND W/ THRUST BLOCKING
---	GATE VALVE
---	FIRE HYDRANT
---	VERTICAL BENDS
---	EX. SANITARY SEWER PIPE
---	EX. INDUSTRIAL WASTE WATER PIPE
---	EX. IWW/SANITARY SEWER MANHOLE
---	EX. EXH. IWW

FITTING SCHEDULE

- 1-CONNECT TO FUTURE 16" CITY WATER MAIN
- 1-16"x16" TAPPING TEE(FLxMJ)
- 1-16" GATE VALVE (FLxMJ) THRUST BLOCKING W/ MARKER
- 1-16"x16" TEE (FL)
- 3-16" GATE VALVE (FLxMJ) THRUST BLOCKING
- 1-12"x6" TEE (FLxMJ)
- 1-8" GATE VALVE (FLxMJ) THRUST BLOCKING
- 1-FIRE HYDRANT ASSEMBLY
- 1-16"x8" TEE (FL)
- 2-16" GATE VALVE (FLxMJ) THRUST BLOCKING
- 1-8" ADAPTOR (FLxMJ)
- 1-8"x8" TEE (FLxMJ)
- 1-8" PLUG (MJ)
- 1-8" GATE VALVE (FLxMJ) THRUST BLOCKING
- 1-16"x6" TEE (FL)
- 2-16" GATE VALVE (FLxMJ) THRUST BLOCKING
- 1-6" GATE VALVE (FLxMJ) THRUST BLOCKING
- 1-12" 90° BEND (MJ) THRUST BLOCKING
- 1-12"x6" TEE (FL)
- 1-12" GATE VALVE (FLxMJ) THRUST BLOCKING
- 1-6" GATE VALVE (FLxMJ) THRUST BLOCKING
- 1-12"x4" TEE (FLxMJ)
- 1-4" GATE VALVE (FLxMJ) THRUST BLOCKING
- CONNECT TO BUILDING (SEE MEP FOR CONTINUATION)
- 1-12"x8" TEE (FL)
- 2-12" GATE VALVE (FLxMJ) THRUST BLOCKING
- 1-8" ADAPTOR (FLxMJ)
- 1-16" PLUG (MJ) W/ MARKER & BLOW-OFF ASSEMBLY (THRUST BLOCKING) (STUB FOR PHASES)
- 1-16"x16" CROSS (FL)
- 4-16" GATE VALVE (FLxMJ) THRUST BLOCKING
- 1-16"x2.5" SERVICE SADDLE
- 1-2.5" GATE VALVE (RSGV) 1-2.5" CAP W/ MARKER
- 1-16"x4" TEE (FL)
- 1-16"x2.5" SERVICE SADDLE
- 2-16" GATE VALVE (FLxMJ) 1-4" GATE VALVE (FLxMJ) 1-2.5" GATE VALVE (RSGV) THRUST BLOCKING
- 1-4" 90° BEND (MJ) THRUST BLOCKING
- 1-12"x4" TEE (FL)
- 1-12" GATE VALVE (FLxMJ) 1-4" GATE VALVE (FLxMJ) 1-12" ADAPTOR (FLxMJ) THRUST BLOCKING
- 1-4" PLUG (MJ) W/ MARKER THRUST BLOCKING
- 1-8" PLUG (MJ) W/ MARKER THRUST BLOCKING
- 1-8" PLUG (MJ) W/ MARKER THRUST BLOCKING
- 1-12" MJ CONNECTION (REMOVE PLUG/THRUST BLOCKING AND CONNECT TO EXISTING FROM PHASE 3)
- WALL MOUNTED FIRE DEPARTMENT CONNECTION (SEE MEP FOR SERVICE INFORMATION)
- 1-8" MJ CONNECTION (REMOVE PLUG/THRUST BLOCKING AND CONNECT TO EXISTING FROM PHASE 3)
- 1-2" DOMESTIC WATER METER W/ THERMAL COIL METER 1-2" RPSA W/ HOT BOX
- 1-FIRE HYDRANT ASSEMBLY (REMOVE PLUG/THRUST BLOCKING AND CONNECT TO EXISTING FROM PHASE 3)
- 1-4" MJ CONNECTION (REMOVE PLUG/THRUST BLOCKING AND CONNECT TO EXISTING FROM PHASE 3)
- 1-12"x16" REDUCER (MJxMJ) (REMOVE PLUG/THRUST BLOCKING AND CONNECT TO EXISTING FROM PHASE 1)
- 1-4" 45° BEND (MJ) THRUST BLOCKING
- 1-8" 45° BEND (MJ) THRUST BLOCKING

DSM08.AZC
 PFE = 185

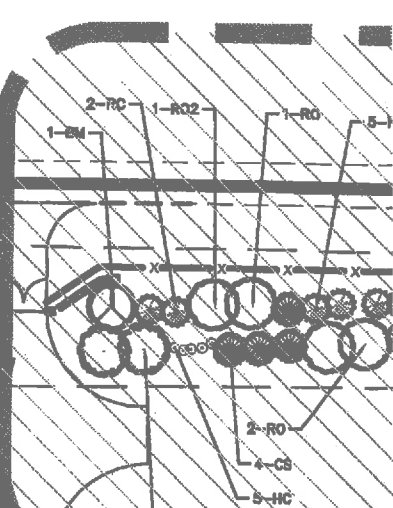
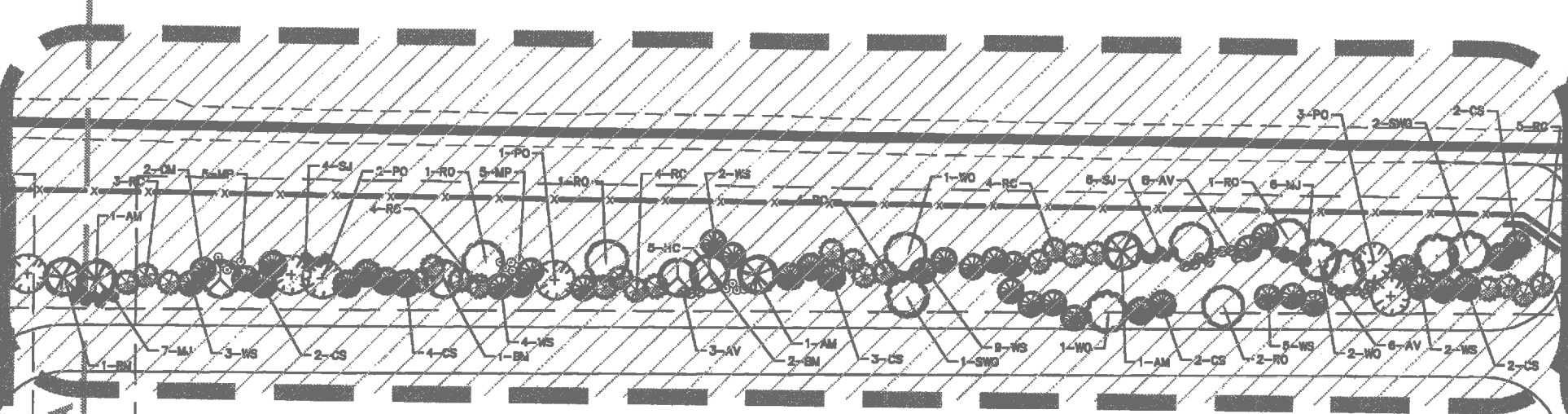
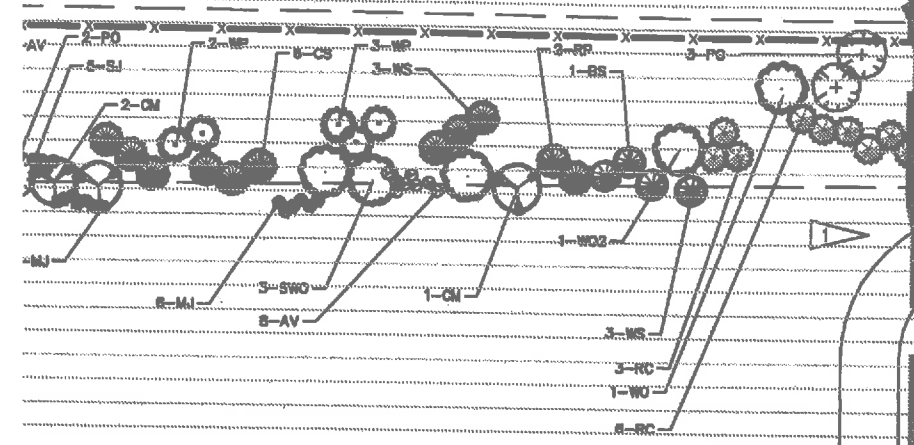
AS1.AZC
 PFE = 18

SEE SHEET C-EI-B03 FOR CONTINUATION



CITY OF WEST DES MOINES
 APPROVED BY: _____ DATE: _____

IE AVE



PHASE 4

MATCHLINE A

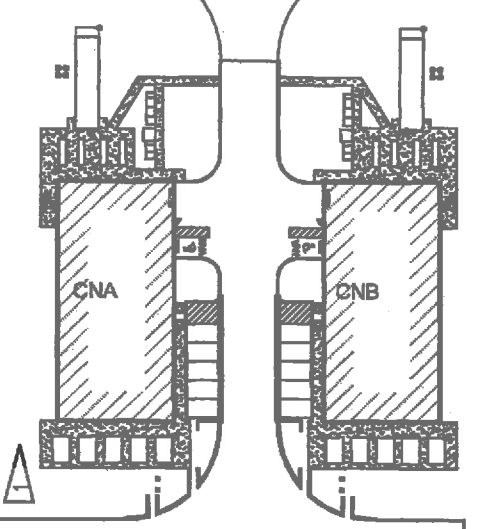
AS4.AZD

AS4.AZC

1

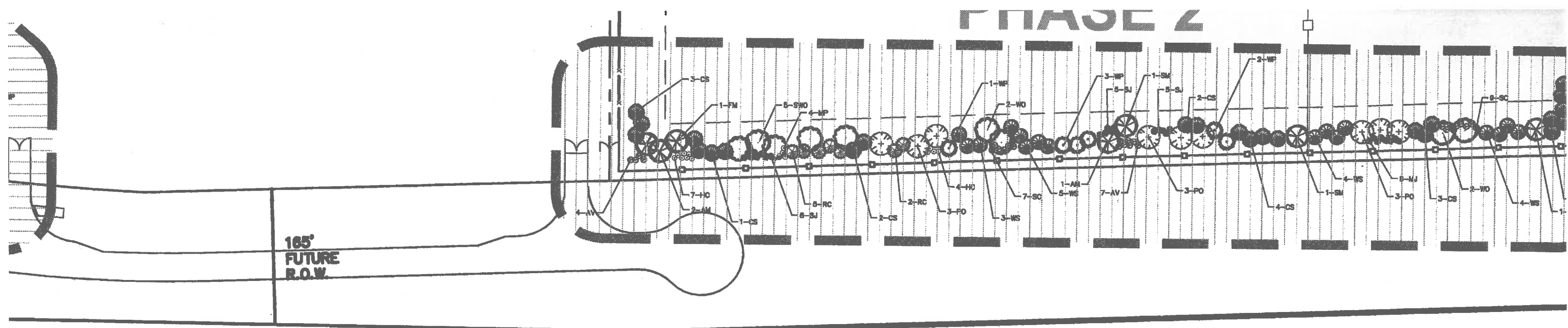
AS4.AZB

AS4.AZA



MATCH

PHASE 2



PLANT SCHEDULE

CODE	QTY	OVERSTORY TREES	SIZE	COND
AM	37	AUTUMN BLAZE MAPLE	2" CAL	B&B
BM	9	BLACK MAPLE	2" CAL	B&B
CM	18	CRESCENDO MAPLE	2" CAL	B&B
WO	14	WHITE OAK	2" CAL	B&B
RO	16	RED OAK	2" CAL	B&B
PO	32	PLATANUS OCCIDENTALIS	2" CAL	B&B
SH	28	GLEDTISIA T. INERMIS	2" CAL	B&B

CODE	QTY	EVERGREEN TREES	SIZE	COND
CS	118	COLORADO GREEN SPRUCE	6' HT.	B&B
WS	120	WHITE SPRUCE	6' HT.	B&B
RC	67	EASTERN RED CEDAR	6' HT.	B&B

CODE	QTY	ORNAMENTAL TREES	SIZE	COND
PF	0	PRAIRIE FIRE CRAB	1.5" CAL	B&B

CODE	QTY	SHRUBS	SIZE	COND
SJ	99	SEA GREEN JUNIPER	18" HT.	CONT
MJ	108	MANEY JUNIPER	18" HT.	CONT
BCJ	18	BLUE CHIP JUNIPER	#5	CONT
JGJ	10	DWARF JAPGARDEN JUNIPER	#5	CONT
AV	113	ARROWWOOD VIBURNUM	18" HT.	CONT
HC	79	HEDGE COTONEASTER	18" HT.	CONT
SC	58	SAMBUCUS C. 'AUREA'	18" HT.	CONT
MP	47	MYRICA PENNSYLVANICA	18" HT.	CONT
CB	8	CRIMSON PYGMY BARBERRY	#5	CONT
GM	8	GOLD MOUND SPIREA	#5	CONT
DL	39	STELLA D'ORO DAYLILY	#1	CONT

TREES HARVESTED FROM SITE

CODE	QTY	OVERSTORY TREES	COND
NM	8	NORWAY MAPLE	SPADE
RM	3	RED MAPLE	SPADE
FM	2	FLAME MAPLE	SPADE
SM	2	SUGAR MAPLE	SPADE
WO2	4	WHITE OAK	SPADE
RO2	14	RED OAK	SPADE
SWO	22	SWAMP WHITE OAK	SPADE
HB	2	HACKBERRY	SPADE
GB	1	GINKGO	SPADE

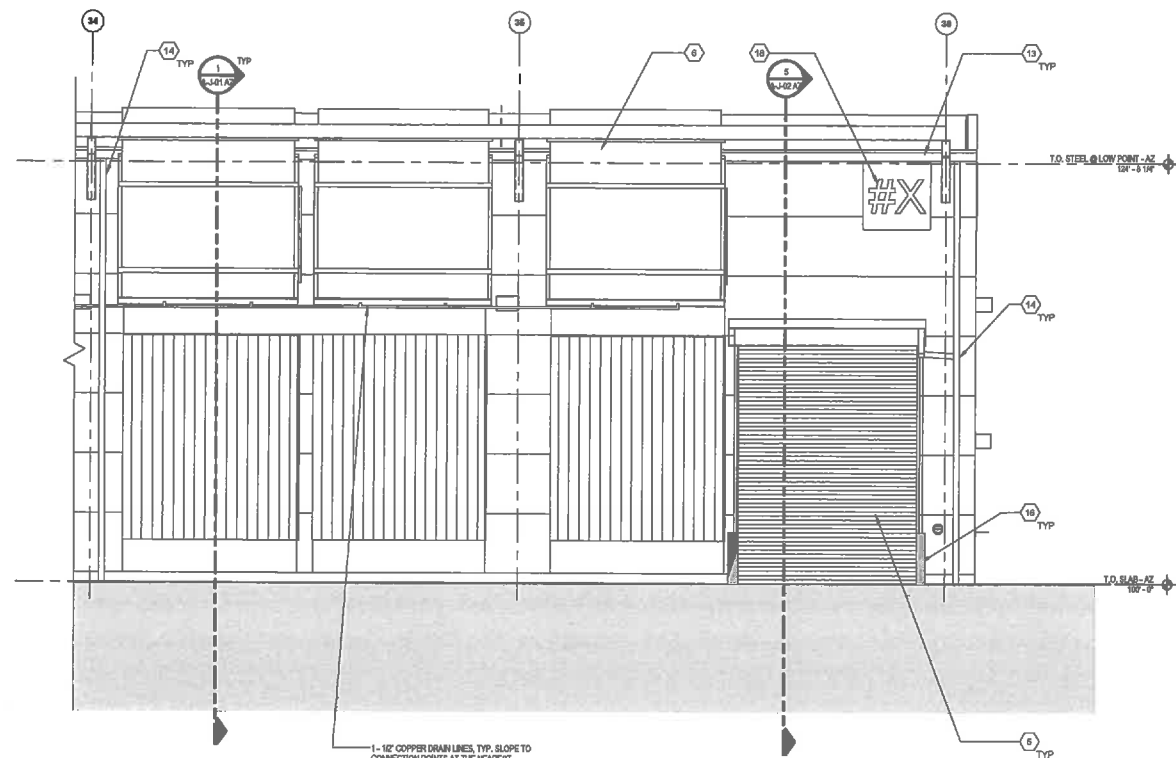
CODE	QTY	EVERGREEN TREES	COND
BS	7	COLORADO BLUE SPRUCE	SPADE
RP	2	RED PINE	SPADE
WP	61	WHITE PINE	SPADE

LANDSCAPE TOTALS

TOTAL SITE AREA:	=5,109,152 S.F. (
20% OPEN SPACE REQUIRED:	=1,021,830 S.F. (
TREES REQUIRED:	=682
(2/3000 S.F.)	
SHRUBS REQUIRED:	=1,022
(3/3000 S.F.)	
PROVIDED:	
TREES:	
OVERSTORY TREES	=211
EVERGREEN TREES	=373
TOTAL TREES:	=584
SHRUBS	=552
PERENNIALS	=39



DSM08 Data Center
West Des Moines, Iowa



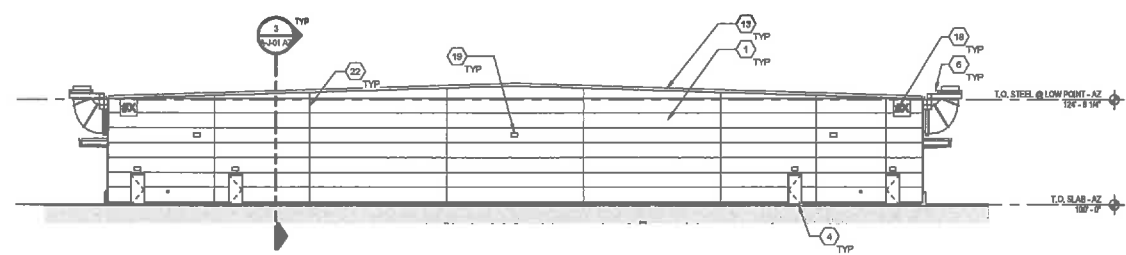
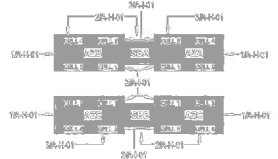
4 TYP. RAD DRAINAGE PIPING ELEVATION
SCALE: 1/4" = 1'-0"

EXTERIOR FINISH LEGEND

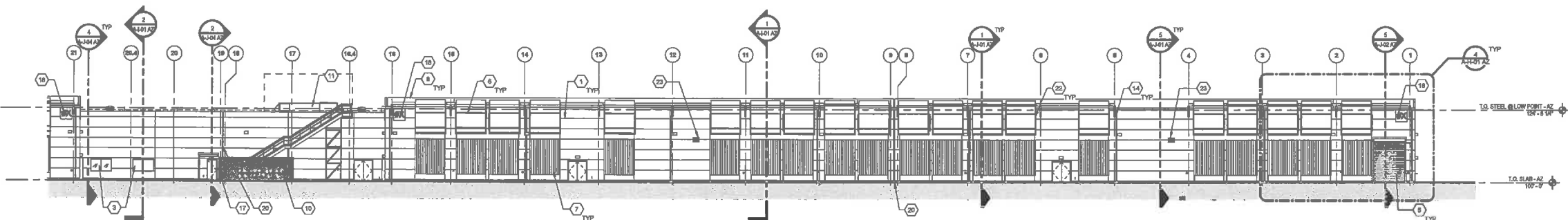


- KEYED NOTES - EXTERIOR ELEVATIONS**
- 1 INSULATED METAL PANEL
 - 2 CANTY
 - 3 ALUMINUM FRAMED STOREFRONT
 - 4 SCHEDULED DOOR (SEE DOOR SCHEDULE)
 - 5 OVERHEAD COLLING DOOR (SEE DOOR SCHEDULE)
 - 6 RELIEF DUCT
 - 7 LOUVER
 - 8 MEMBRANE ROOF
 - 9 TRASH COMPACTOR DOOR
 - 10 EXTERIOR FINISH (SEE CIVIL)
 - 11 AIR HANDLING UNIT (SEE MECHANICAL)
 - 12 THROUGH WALL SCUPPER WINDOW/OUTLET (SEE CIVIL FOR UNDERGROUND TE-8)
 - 13 CONTINUOUS RAIN TIE
 - 14 DOWNSPOUT (SEE CIVIL FOR TE-8)
 - 15 BOLLARD, PAINT SAFETY YELLOW
 - 16 KNOX BOX (SEE FIRE PROTECTION DRAWINGS)
 - 17 BUILDING IDENTIFICATION SIGNAGE, SEE SWANAGE PLANS
 - 18 LIGHT FIXTURE (SEE ELECTRICAL)
 - 19 EXPANSION JOINT
 - 20 CONCRETE FINISH INSULATED WALL PANELS
 - 21 METAL PANEL STACK JOINT
 - 22 PENETRATION FOR CABLE BUS (SEE ELECTRICAL)

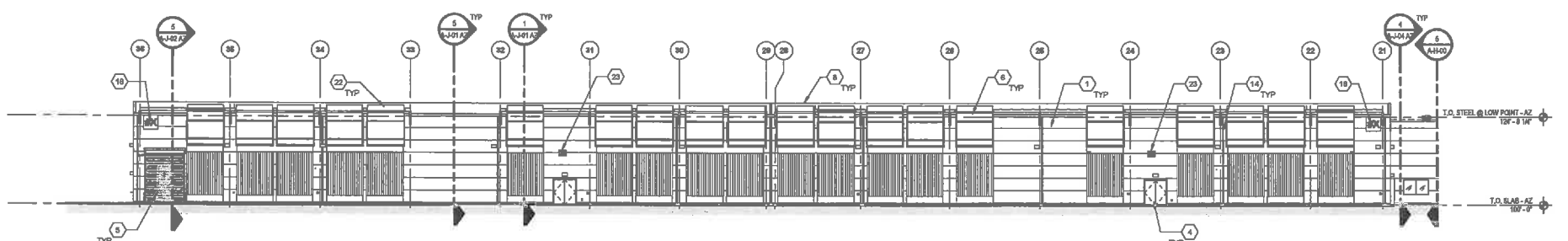
- GENERAL NOTES (BUILDING ELEVATIONS)**
- A. THE KEYED NOTES ARE PART OF A MASTER LIST FOR EXTERIOR ELEVATION DRAWINGS. SOME KEYED NOTES MAY NOT APPEAR ON ALL DRAWINGS.
 - B. REFER TO DRAWING G-A-03 FOR GENERAL NOTES, SYMBOLS, LEGENDS, AND ABBREVIATIONS.
 - C. REFER TO THE FINISH LEGEND & EXTERIOR FINISH DIAGRAM FOR ADDITIONAL MATERIAL AND COLOR INFORMATION.
 - D. GENERATORS AND OTHER EQUIPMENT SHOWN IN THE FOREGROUND OF THE BUILDING ELEVATIONS ARE NOT SHOWN FOR CLARITY IN THE ENLARGED ELEVATIONS.
 - E. REFER TO DETAILS IN THE A-K SERIES DRAWINGS FOR CONDUIT / PIPE WALL PENETRATION DETAILS. NOT ALL PIPE PENETRATIONS ARE SHOWN ON THE ELEVATIONS. REFER TO ELECTRICAL, MECHANICAL, PLUMBING AND TELECOM DRAWINGS FOR ADDITIONAL INFORMATION.
 - F. FOR ELEVATIONS ALONG GRID LINES 18 AND 21, SEE 28-A-01



1 EXTERIOR ELEVATION
SCALE: 1/16" = 1'-0"



2 EXTERIOR ELEVATION
SCALE: 1/16" = 1'-0"



3 EXTERIOR ELEVATION
SCALE: 1/16" = 1'-0"

Microsoft
DSM08
DATA CENTER
550 SE WHITE CRANE ROAD
WEST DES MOINES, IA 50265

Design Team

Owner	MSD
Client	MSD
Contract	MSD
Date	15 JULY 2010
Page Project No.	1188182
MSA Project No.	P-1103

Approvals

Author	MSD
Microsoft	MICROSOFT
Microsoft Structural Engineer	PETER WANKA
Microsoft Civil Engineer	ERIC BEAL
Microsoft Electrical Engineer	STEVE STENERT
Engineering Manager	ANDREW TAYLOR
Design Manager	ERIC YANEZ
QA	ROCK HAGE

DESIGN TEAM

MSA Script Lead	JASON GILBERT / PHASE
Architecture Lead	BRYAN HAYWOOD / PAGE
MEP Engineering Lead	STEVE PERCIBACLAND
Structural Engineering Lead	DAVID BROWN / PHASE
Electrical Engineering Lead	CAMERON BROWN / PAGE
Interior Engineering Lead	JOHN CURRY / PAGE
MEP Controls Lead	ANDY BAXTER / PHASE
Valuation Lead	NATE ELLIOT / SPARKLING
Quantity Lead	PETE BRITZGARD / MSD

Revisions

No.	Date	Description
1	2010.07.24	100% IFC

Key Plan

Bar Code	
----------	--

COMPENSATED - TRADE SECRET - DO NOT DISCLOSE
This information constitutes confidential proprietary "trade secrets" as defined in the Iowa Uniform Trade Secrets Act and is provided pursuant to a promise of confidentiality.

Sheet Title/Number

EXTERIOR ELEVATIONS
A-H-01 AZ

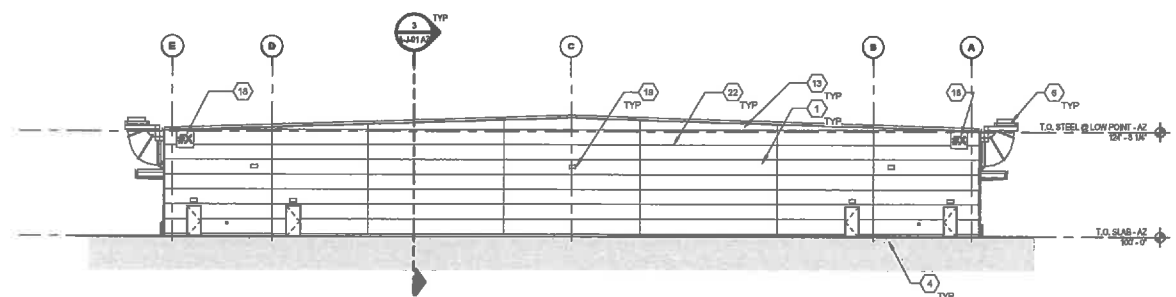
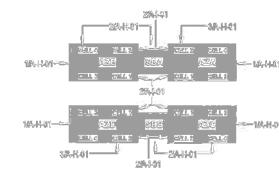
EXTERIOR FINISH LEGEND



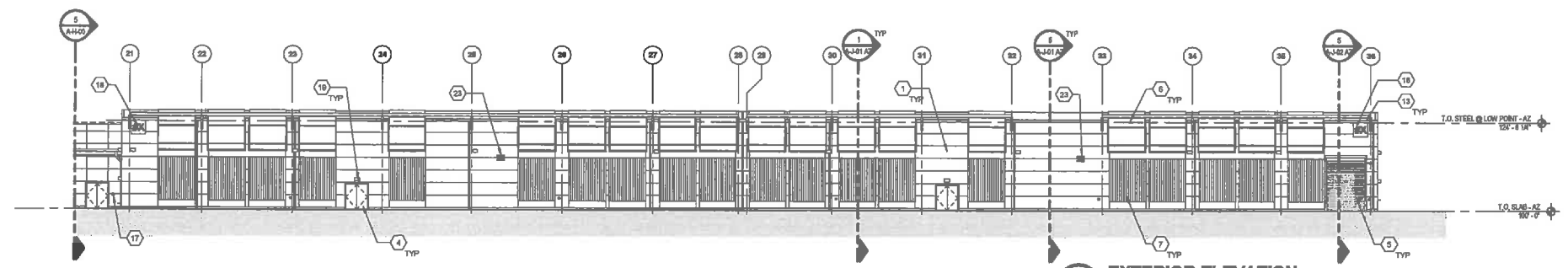
- KEYED NOTES - EXTERIOR ELEVATIONS**
- 1 INSULATED METAL PANEL
 - 2 CANOPY
 - 3 ALUMINUM FRAMED STOREFRONT
 - 4 RICH-EDGED DOOR (SEE DOOR SCHEDULE)
 - 5 OVERHEAD COILING DOOR (SEE DOOR SCHEDULE)
 - 6 RELIEF SLUIT
 - 7 LOUVER
 - 8 MEMBRANE ROOF
 - 9 TRASH COMPACTOR DOOR
 - 10 EXTERIOR FINISH (SEE CIVIL)
 - 11 AIR HANDLING UNIT (SEE MECHANICAL)
 - 12 THROUGH-WALL SCUPPER W/ DOWNSPOUT (SEE CIVIL FOR UNDERGROUND TIE-IN)
 - 13 CONTINUOUS RAKE TRIM
 - 14 DOWNSPOUT (SEE CIVIL FOR TIE-IN)
 - 15 BOLLARD PAINT SAFETY YELLOW
 - 16 KNICK BOX (SEE FIRE PROTECTION DRAWINGS)
 - 17 BUILDING IDENTIFICATION SIGNAGE, SEE SIGNAGE PLAN
 - 18 LIGHT FIXTURE (SEE ELECTRICAL)
 - 19 EXPANSION JOINT
 - 20 CONCRETE FACED INSULATED WALL PANELS
 - 21 METAL PANEL STACK JOINT
 - 22 PENETRATION FOR CABLE BUS (SEE ELECTRICAL)

GENERAL NOTES (BUILDING ELEVATIONS)

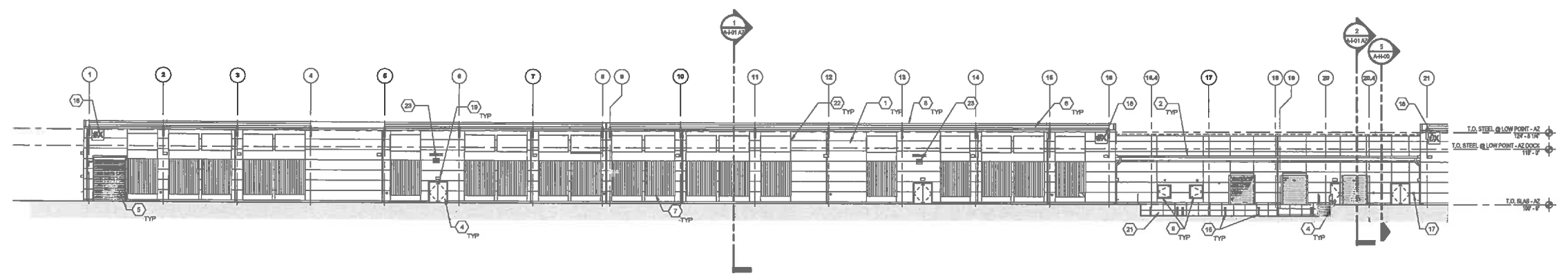
- A. THE KEYED NOTES ARE PART OF A MASTER LIST FOR EXTERIOR ELEVATION DRAWINGS. SOME KEYED NOTES MAY NOT APPEAR ON ALL DRAWINGS.
- B. REFER TO DRAWING G-A-00 FOR GENERAL NOTES, SYMBOL LEGENDS, AND ASSUMPTIONS.
- C. REFER TO THE FINISH LEGEND & EXTERIOR FINISH DIAGRAM FOR ADDITIONAL MATERIAL AND COLOR INFORMATION.
- D. GENERATORS AND OTHER EQUIPMENT SHOWN IN THE FOREGROUND OF THE BUILDING ELEVATIONS ARE NOT SHOWN FOR CLARITY IN THE FINISHED ELEVATION.
- E. REFER TO DETAILS IN THE A-A SERIES DRAWINGS FOR CONDUIT / PIPE WALL PENETRATION DETAILS. NOT ALL PIPE PENETRATIONS ARE SHOWN ON THE ELEVATIONS. REFER TO ELECTRICAL, MECHANICAL, PLUMBING, AND TELECOM DRAWINGS FOR ADDITIONAL INFORMATION.
- F. FOR ELEVATIONS ALONG GRID LINES 11 AND 21, SEE S1A-01



4 EXTERIOR ELEVATION
SCALE: 1/16" = 1'-0"



2 EXTERIOR ELEVATION
SCALE: 1/16" = 1'-0"



3 EXTERIOR ELEVATION
SCALE: 1/16" = 1'-0"

Page Bestfield Page, LLP
400 W. Cesar Chavez Street Fifth Floor
Austin, TX 78701
page@page.com
Tel: 512.472.8721
Fax: 512.477.3211

Microsoft
DSM08
DATA CENTER
550 SE WHITE CRANE ROAD
WEST DES MOINES, IA 50265

Design Team

Author	MS
Designer	MS
Checker	MS
Date	10.AUG.2010
Project No.	100832
Sheet No.	1 of 100

Approvals

Customer	MICROSOFT	Date
Principal Architect/Engineer	PETER WANKSA	Date
Principal Civil Engineer	ERIC BEAL	Date
Principal Mechanical Engineer	STEVE STEINERT	Date
Engineering Manager	ANDREW TAYLOR	Date
Quality Manager	ERIC DANIEL	Date
SEA	JOCK WARE	Date
Design Team		Date
SEA Design Lead	JARON GILBERTY PAGE	Date
Architectural Lead	BRYAN HAYWOOD PAGE	Date
MEP Engineering Lead	STEVE PERCE/PAULAND	Date
Mechanical Engineering Lead	DAVID BROWN PWS	Date
Structural Engineering Lead	CHRISTOPHER BROWN PAGE	Date
Structural Engineering Lead	SPYR CLIMBER/ PAGE	Date
MEP Check Lead	ANDY BAUTER PAGE	Date
Utilities Lead	NATE ELLY SPARLING	Date
Modeling Lead	PETE BREITZ/ARQ	Date

Revisions

No.	Date	Description
1	2010.07.24	100% IFC

Key Plan

Sheet Code

CONFIDENTIAL - TRADE SECRET - DO NOT DISCLOSE
This information constitutes confidential proprietary "trade secret" as defined in the Iowa Uniform Trade Secret Act and is provided pursuant to a promise of confidentiality.

Sheet Title/Number

EXTERIOR ELEVATIONS
A-H-02 AZ