UW HOSPITAL RAMP EXPANSION UNIVERSITY OF WISCONSIN - MADISON MADISON, WISCONSIN

DFD PROJECT NUMBER 12B1K STATE OF WISCONSIN, DEPARTMENT OF ADMINISTRATION **DIVISION OF FACILITIES DEVELOPMENT**

STATE OF WISCONSIN, DEPARTMENT OF ADMINISTRATION **DIVISION OF FACILITIES DEVELOPMENT**

STATE OF WISC. ADMINISTRATION BUILDING - 7TH FLOOR 101 EAST WILSON STREET - P.O. BOX 7866 MADISON, WI 53707

PROJECT MANAGEMENT **GRAEF**

125 SOUTH 84TH ST., SUITE 401 MILWAUKEE, WI 53214 www.graef-usa.com

PROJECT CONTACT: DIRECT PHONE: FMAIL ADDRESS: FAX NUMBER:

DEWEY HEMBA (414) 266-9136 dewey.hemba@graef-usa.com (414) 259-0037

STRUCTURAL GRAEF

125 SOUTH 84TH ST., SUITE 401 MILWAUKEE, WI 53214 www.graef-usa.com

PROJECT CONTACT: DIRECT PHONE: EMAIL ADDRESS: FAX NUMBER:

JASON GROSS (414) 266-9156 (414) 259-0037

jason.gross@graef-usa.com

ARCHITECTURAL EPPSTEIN UHEN ARCHITECTS, INC.

222 WEST WASHINGTON AVE., SUITE 650 MADISON, WI 53703 www.eppsteinuhen.com

PROJECT CONTACT: DIRECT PHONE: EMAIL ADDRESS: FAX NUMBER:

JONATHAN PARKER (608) 442-6681 jonathanp@eua.com (608) 442-6680

CIVIL **GRAEF**

125 SOUTH 84TH ST., SUITE 401 MILWAUKEE, WI 53214

www.graef-usa.com

PROJECT CONTACT: DIRECT PHONE: EMAIL ADDRESS: FAX NUMBER:

JIM HANSEN (414) 266-9067 james.hansen@graef-usa.com (414) 259-0037

MECHANICAL GRAEF

125 SOUTH 84TH ST., SUITE 401 MILWAUKEE, WI 53214 www.graef-usa.com

PROJECT CONTACT: DIRECT PHONE: EMAIL ADDRESS: FAX NUMBER:

JASON GERKE (414) 266-9238 jason.gerke@graef-usa.com (414) 259-0037

ELECTRICAL GRAEF

125 SOUTH 84TH ST., SUITE 401 MILWAUKEE, WI 53214 www.graef-usa.com

PROJECT CONTACT: DIRECT PHONE: **EMAIL ADDRESS** FAX NUMBER:

ANDREW WALTHER (414) 266-9243 andrew.walther@graef-usa.com (414) 259-0037

PLUMBING/FIRE PROTECTION **PSJ ENGINEERING**

900 JOHN NOLEN DR., UNIT 204 MADISON WI 53703 www.psjengineering.com

PROJECT CONTACT: DIRECT PHONE: EMAIL ADDRESS: FAX NUMBER:

TED LINSLEY (608) 251-5820 ted@psjengineering.com (608) 251-4774

LANDSCAPE ARCHITECT **KEN SAIKI DESIGN**

303 SOUTH PATERSON, SUITE 1 MADISON WI 53703 www ksd-la com/

PROJECT CONTACT: DIRECT PHONE: FMAIL ADDRESS: FAX NUMBER:

KEN SAIKI (608) 251-3600 ksaiki@ksd-la.com (608) 251-2330

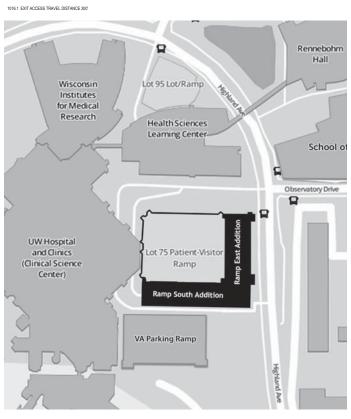
PARKING RAMP ADDITION

HEIGHT: 6 STORIES TOTAL GROSS BUILDING AREA: 764,087 SF

BUILDING GROSS SQUARE FOOTAGE BY FLOOR: 136,251 SF 136,303 SF 136,305 SF 136,538 SF 136,095 SF 2,309 SF 764,087 SF BUILDING SQUARE FOOTAGE BY USE: PARKING: 748 213 SF

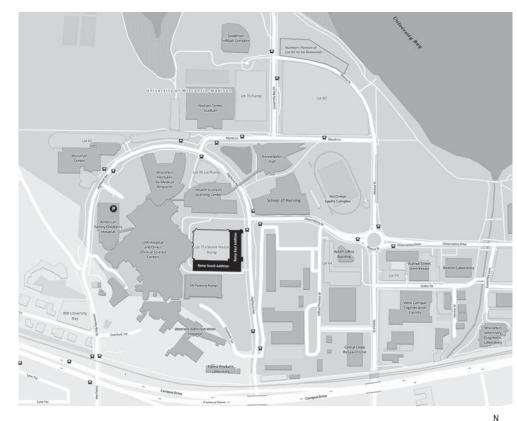
THAT PART OF THE SOUTHEAST 1/4 OF SECTION 16, TOWNSHIP 7 NORTH, RANGE 9 EAST, IN THE CITY OF MADISON, DANE COUNTY, WISCONSIN, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

SITE INFORMATION



ZONING MAP

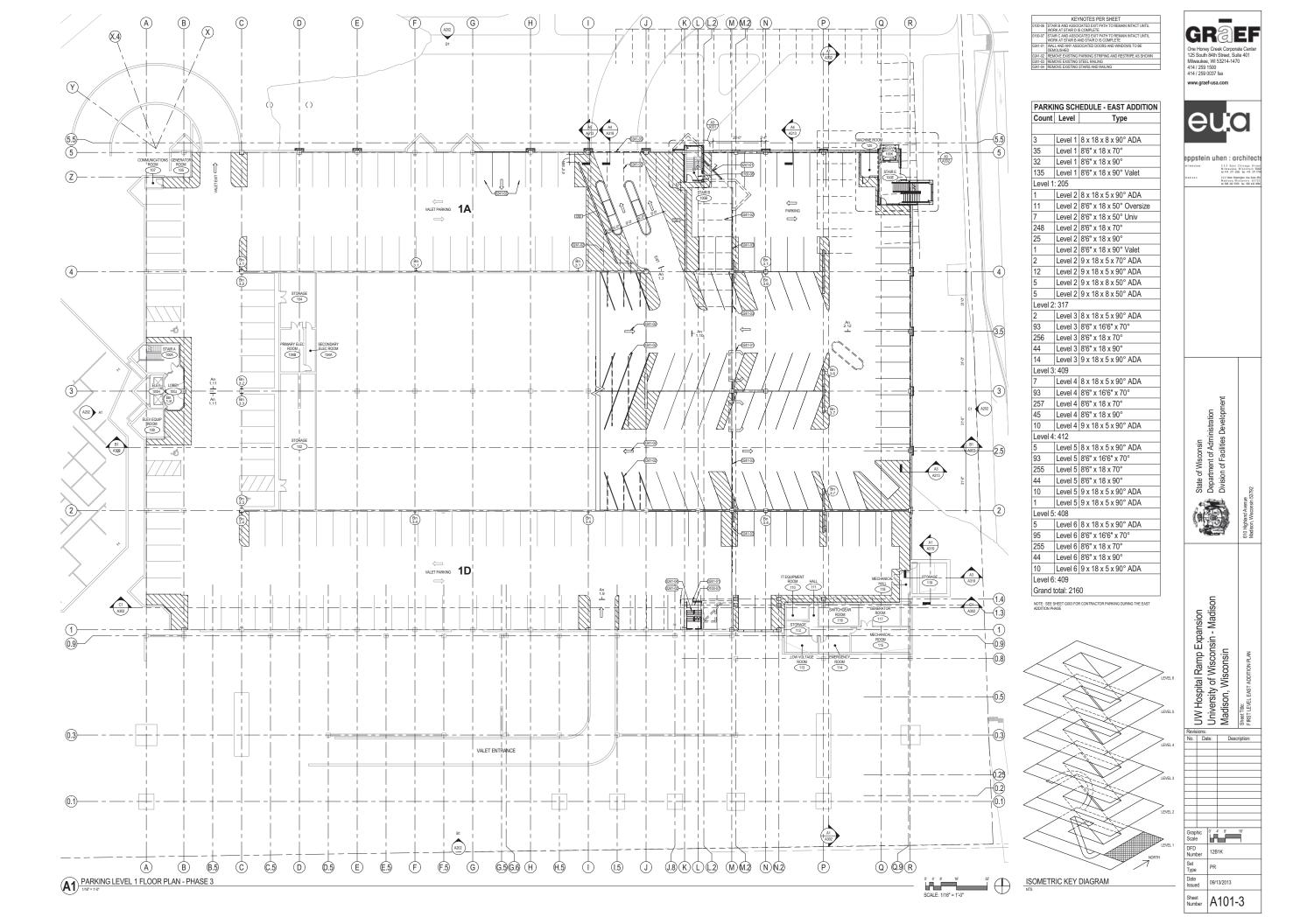
SHEET INDEX:

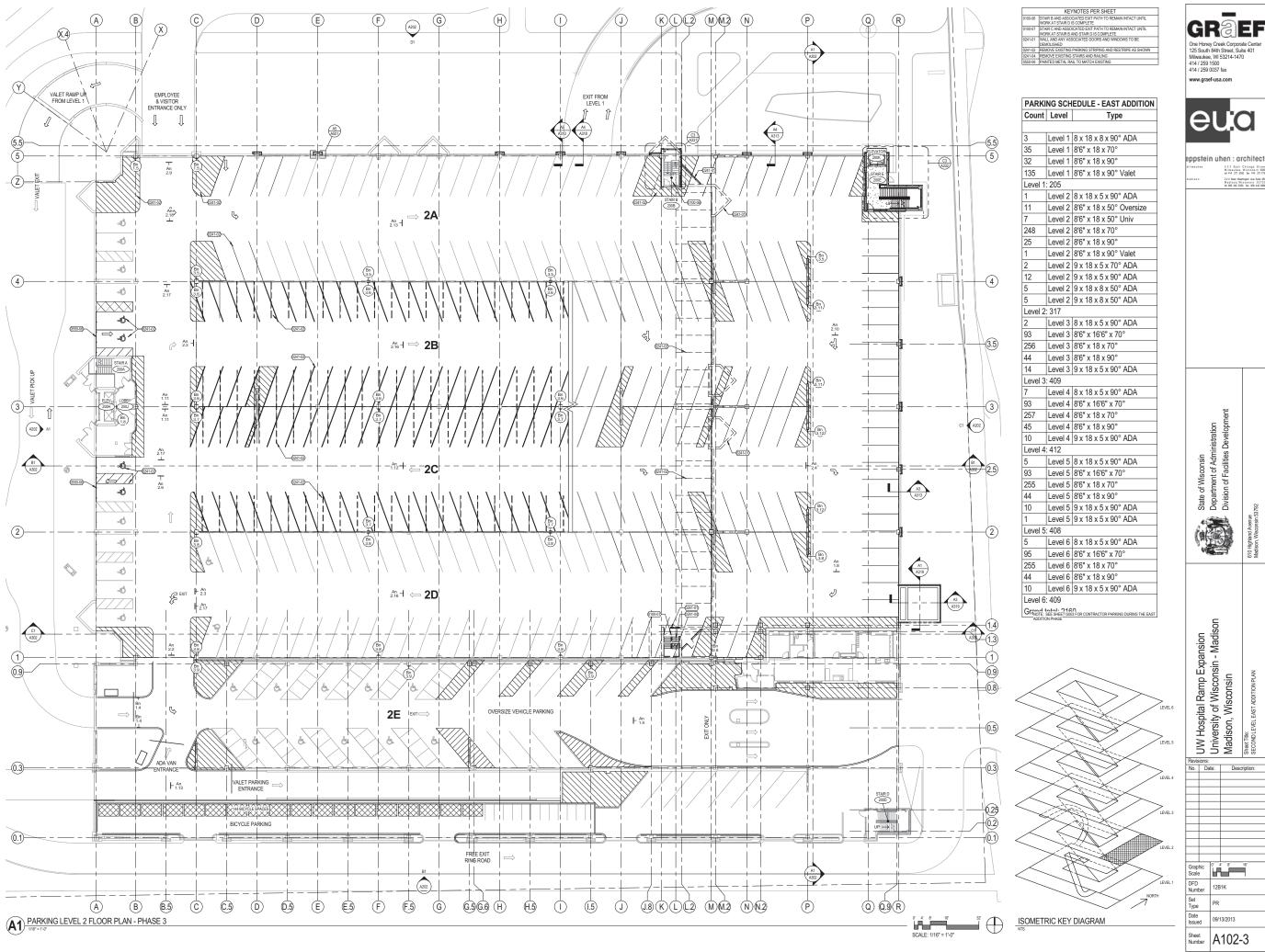


SITE LOCATION MAP

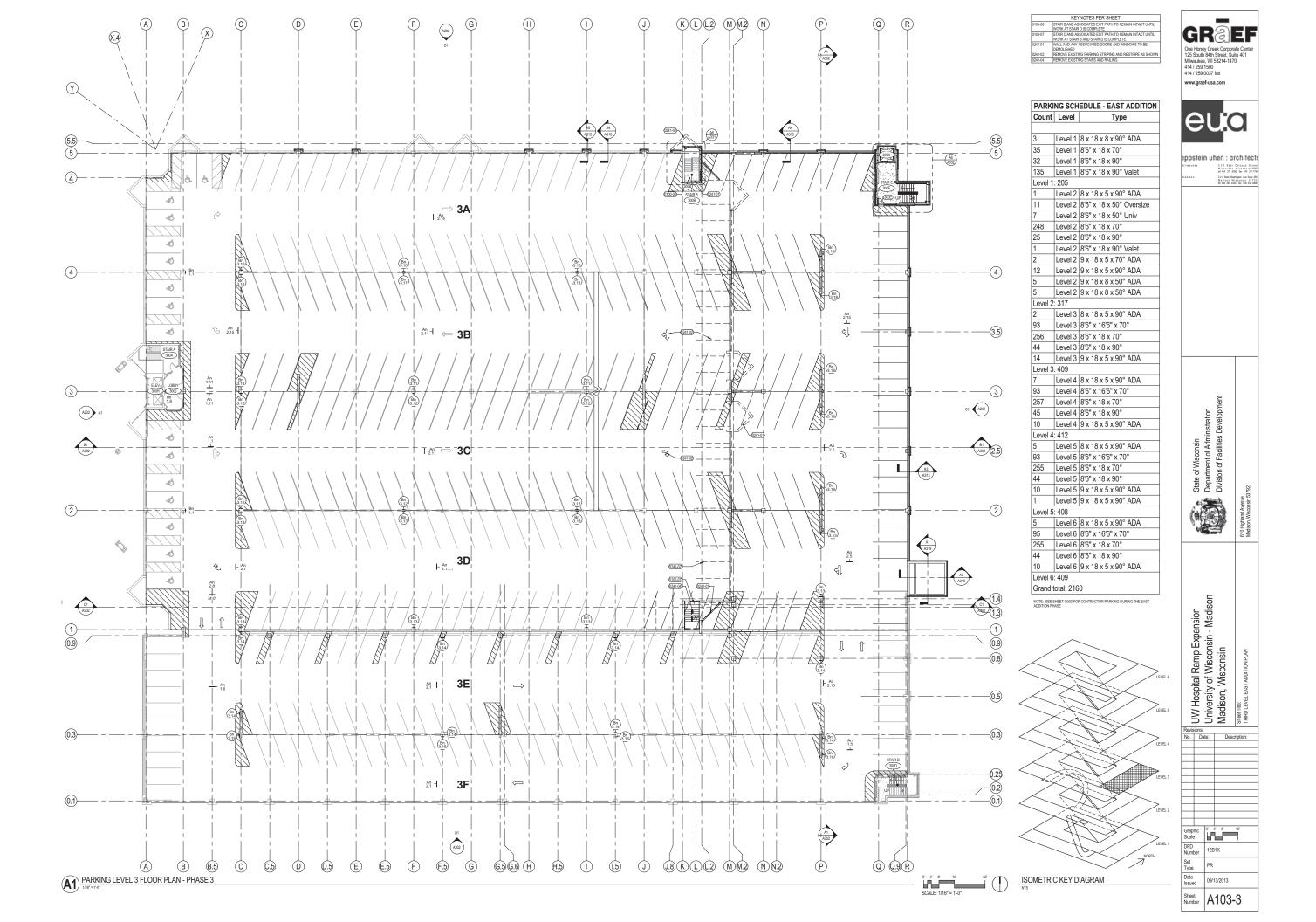
www.graef-usa.com State of Wisconsin Department of Admin Division of Facilities D UW Hospital Ramp Expansion University of Wisconsin - Madisc Madison, Wisconsin

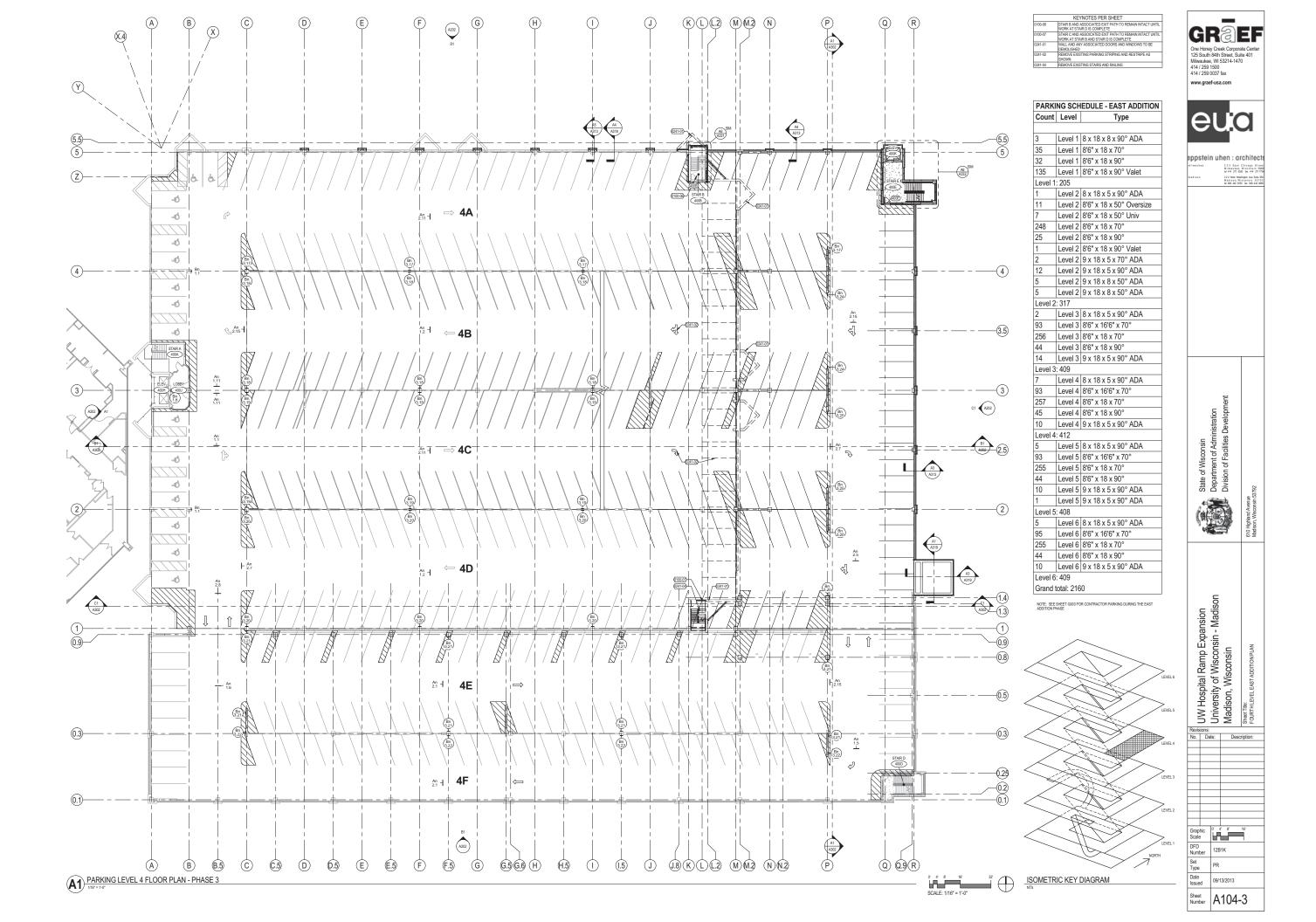
09/13/2013 TS000

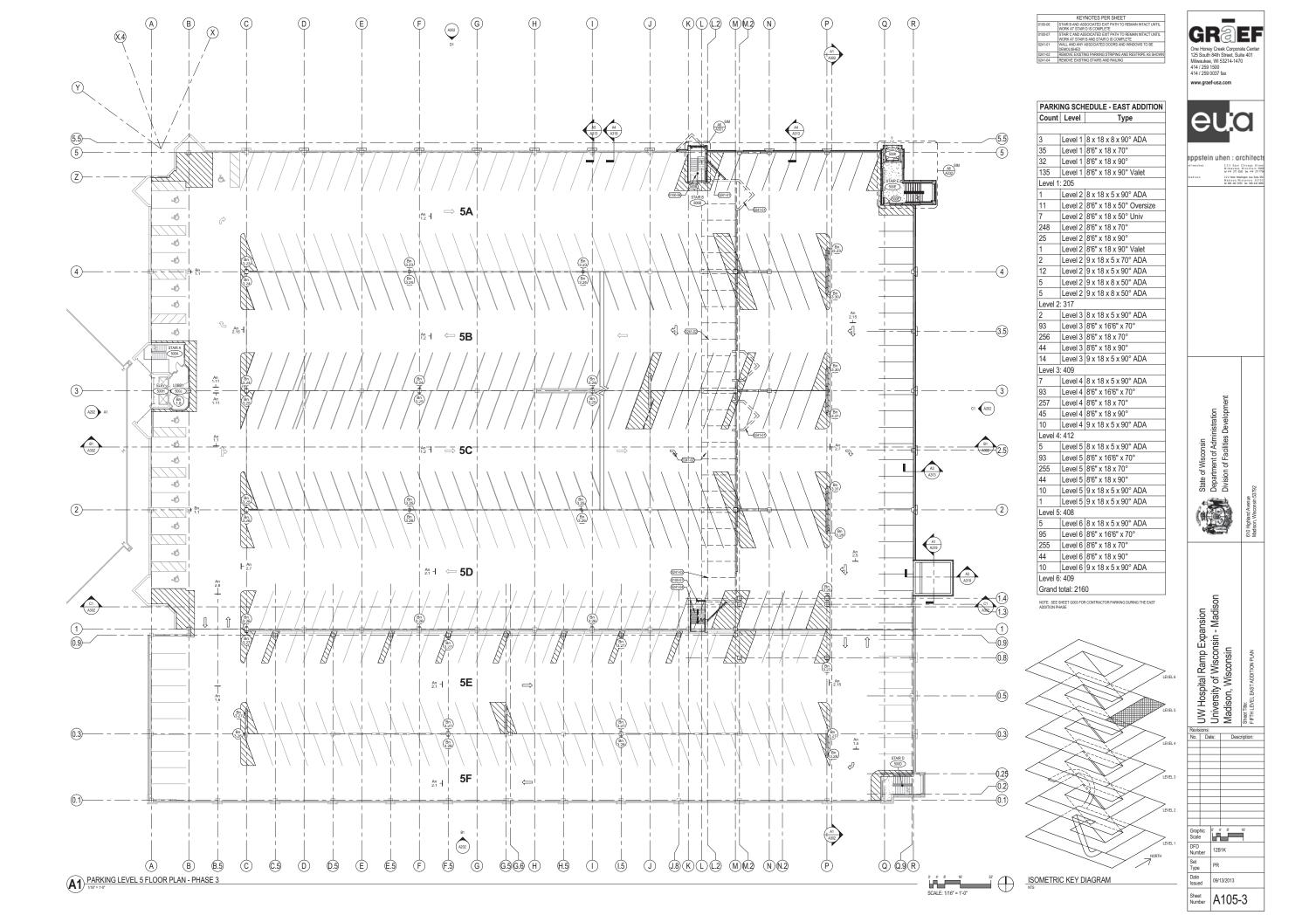


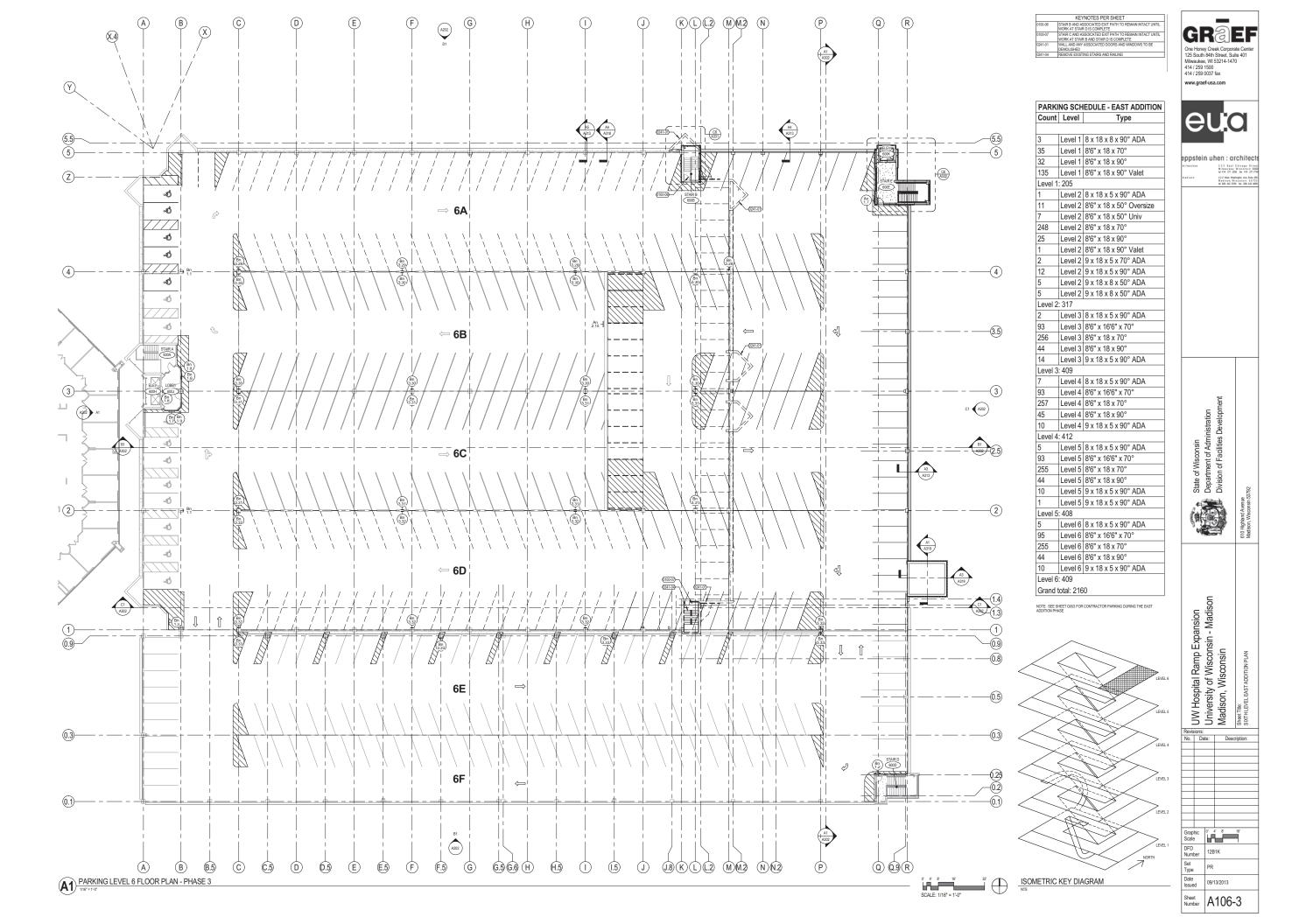


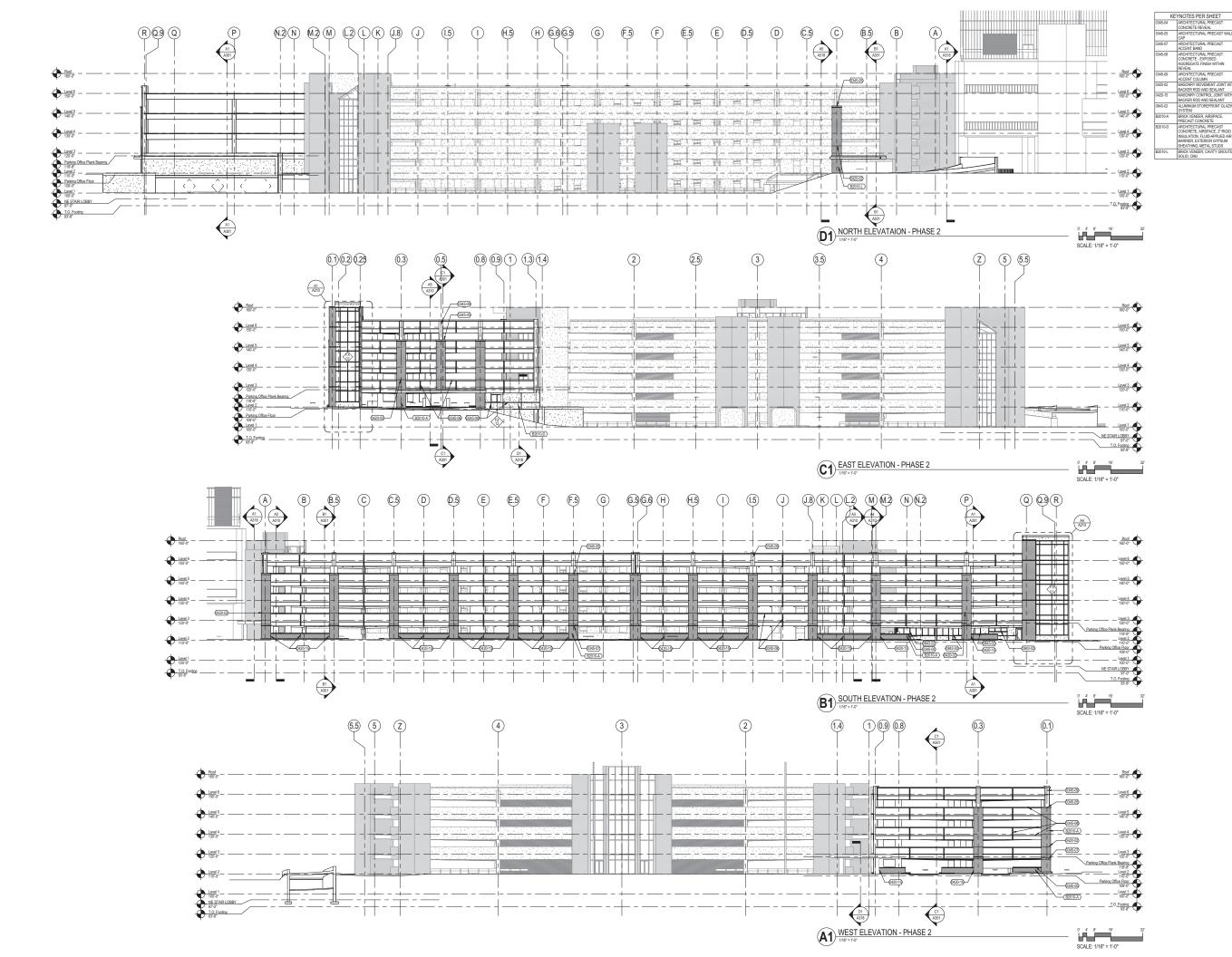
3 3 3 East Chicago Stree Milwaukee, Wisconsin 5300 tel 414 271 5350 fax 414 271 771 222 West Washington Ave, Suite 6 Madison, Wisconsin 5370 tel 608 442 5350 fax 608 442 66





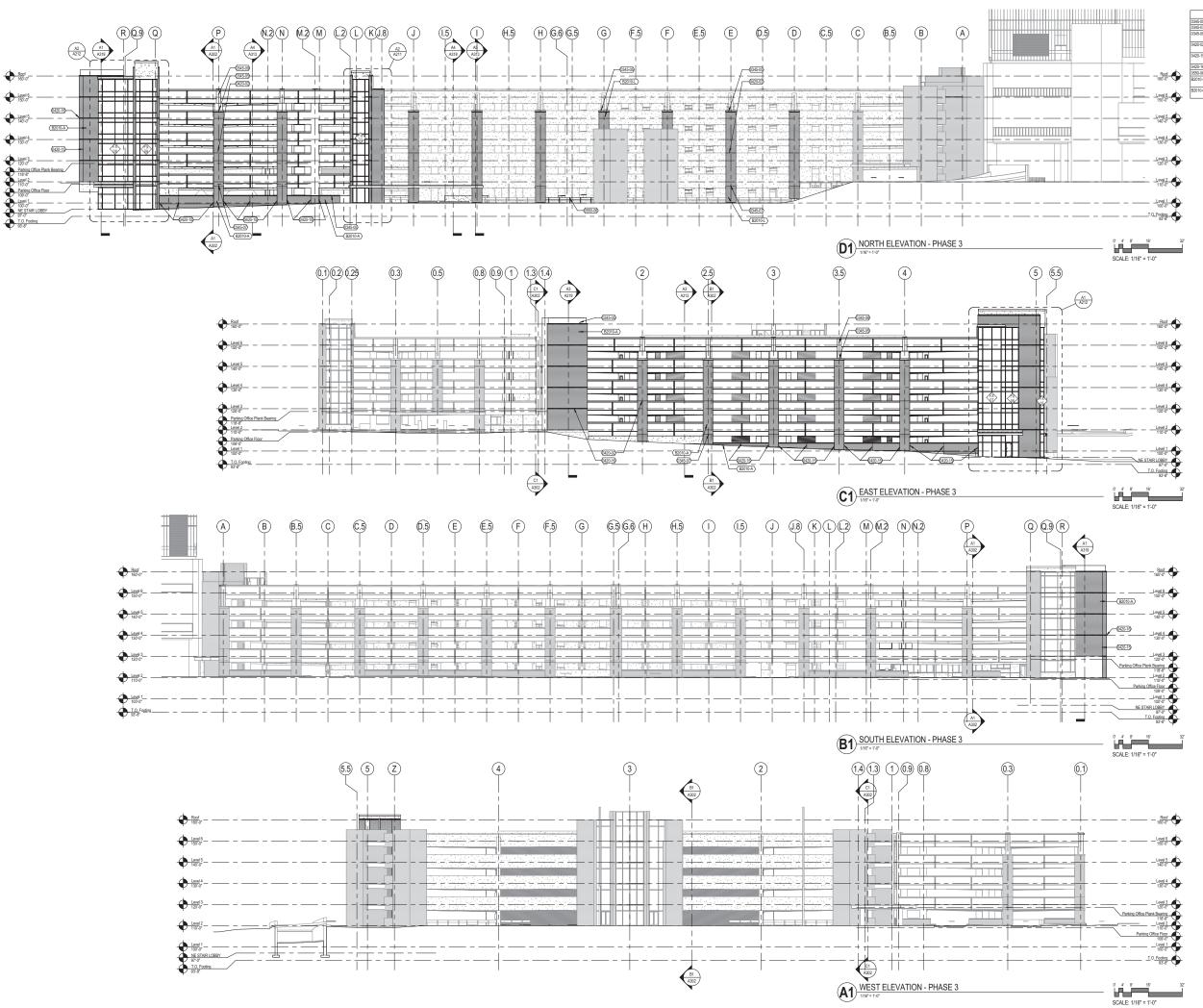








A201



KEYNOTES PER SHEET 0345-05 ARCHITECTURAL PRECAST WALL CA 0345-07 ARCHITECTURAL PRECAST ACCENT 0345-09 ARCHITECTURAL PRECAST ACCENT COLUMN 0420-02 MASONRY MOVEMENT JOINT WITH

JMADOUZ MASONEY MODERARY JOINT WITH BACKER ROO AND SEALANT GROON DO SEALANT ROO AND SEALANT GROON SEALANT GROON SEALANT SEASON SEA



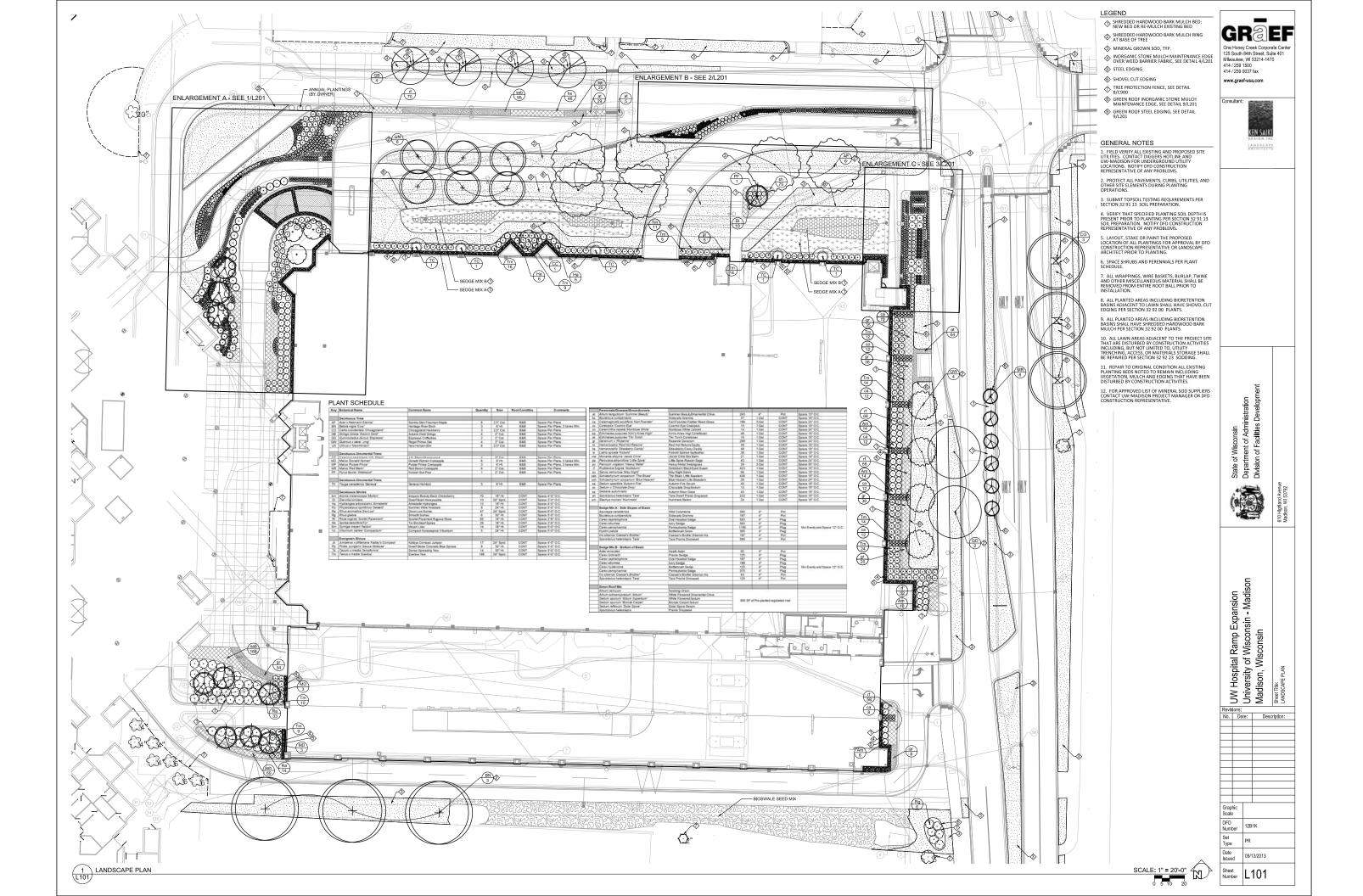
ppstein uhen : architects 3 3 S East Chicago Stree Milwaukee, Wisconsin 5330 M 414 271 5350 fax 414 271 779

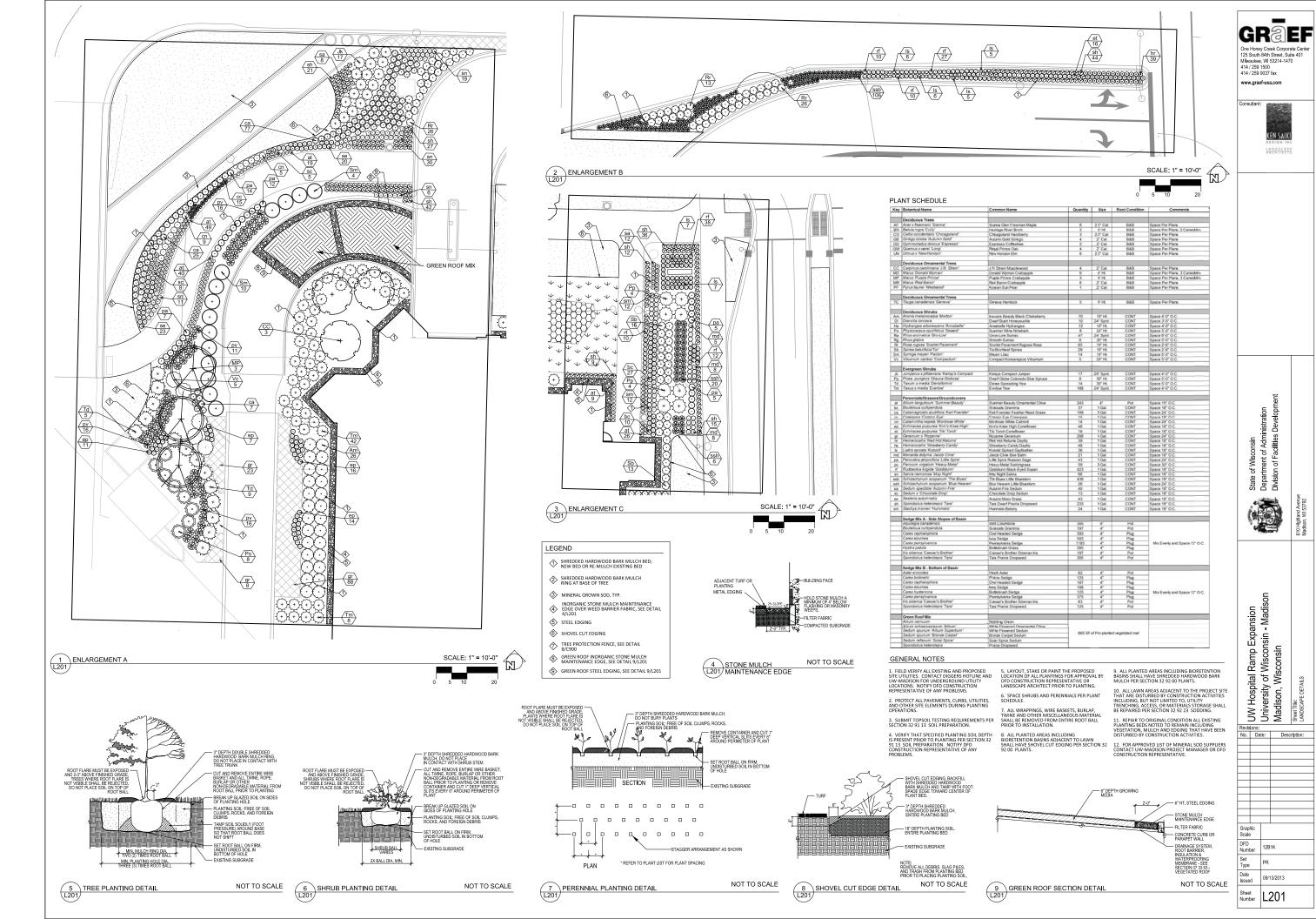
222 West Washington Ave, Suite 6 Madison, Wisconsin 5370 tel 608 442 5350 fex 608 442 66

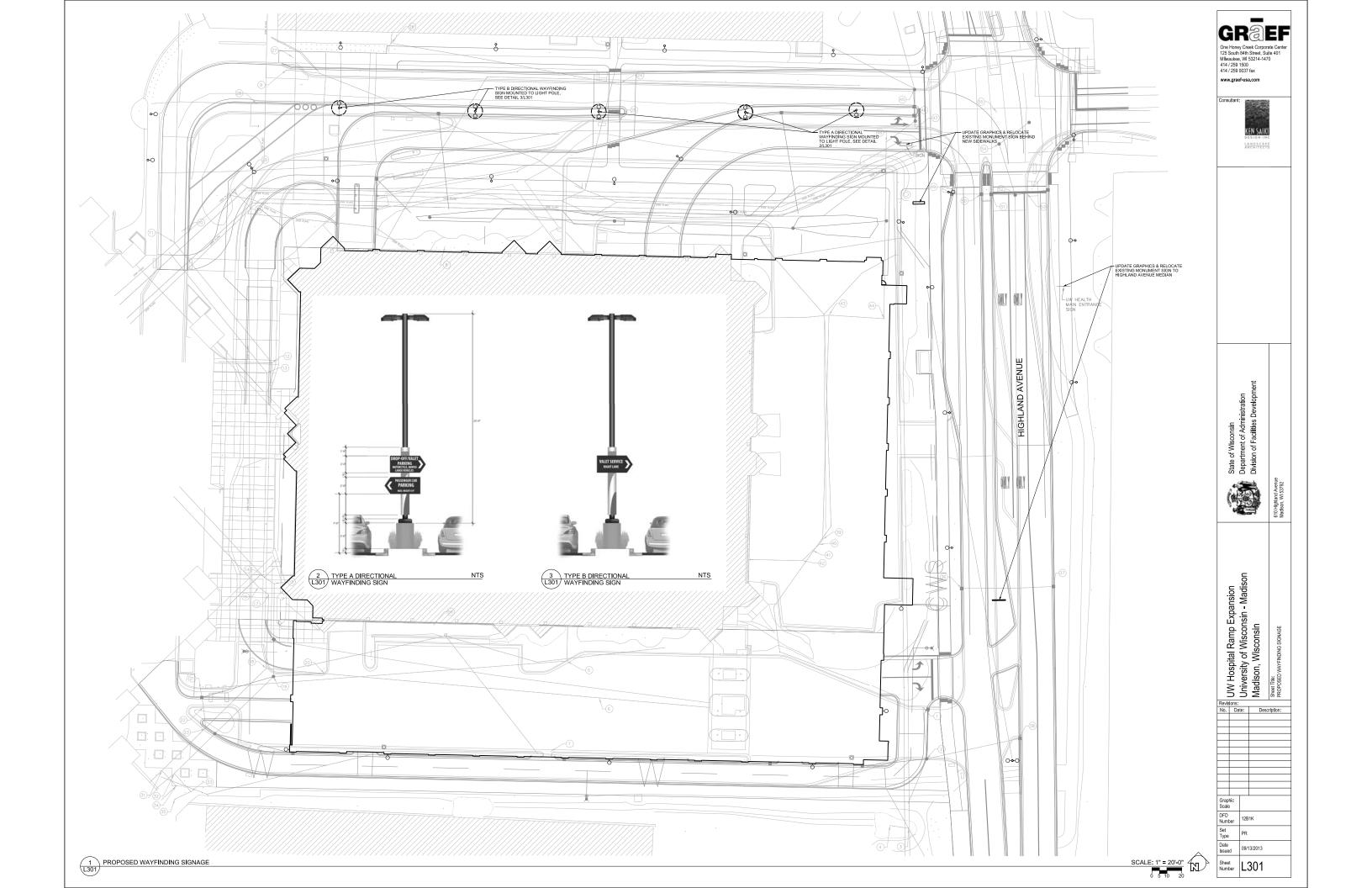
State of Wisconsin
Department of Administration
Division of Facilities Development

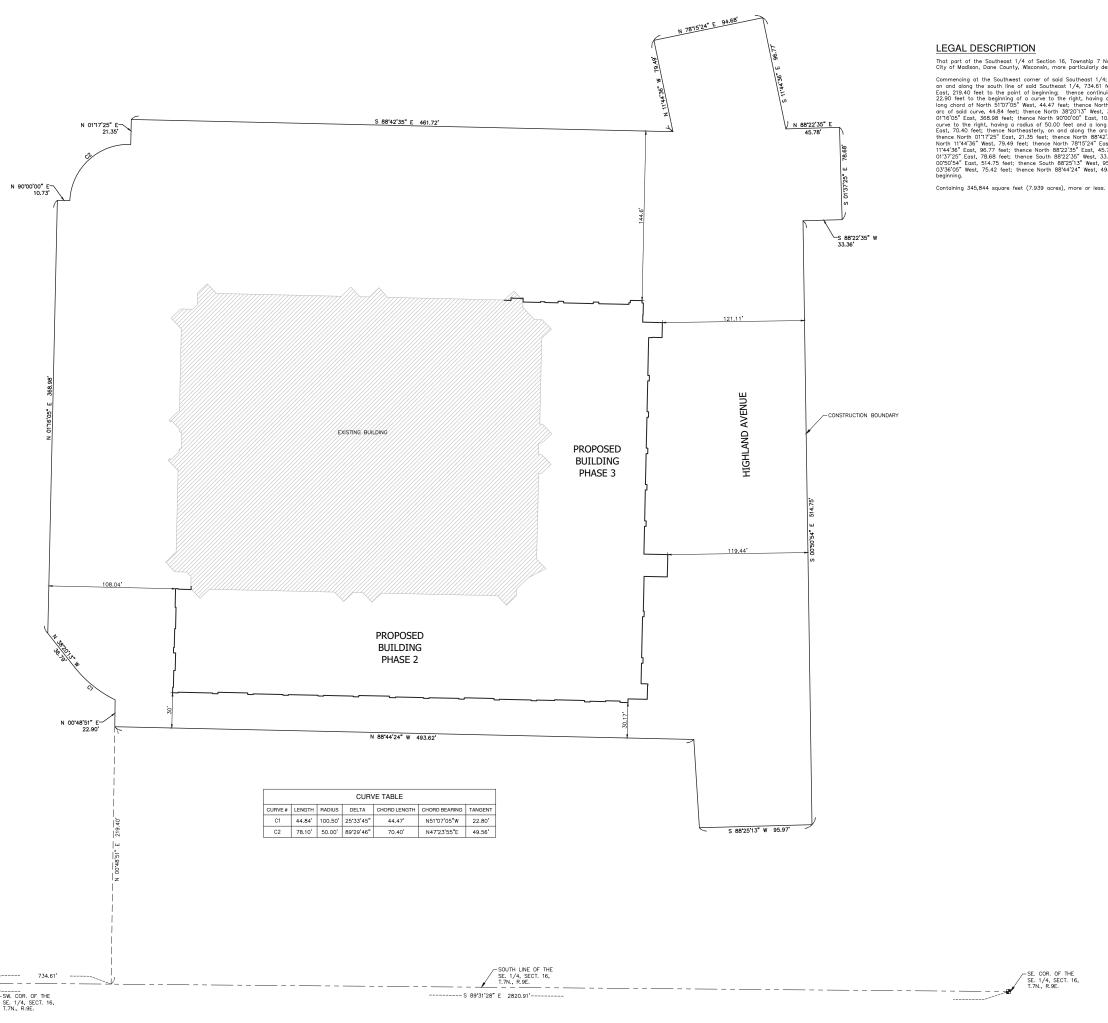
UW Hospital Ramp Expansion University of Wisconsin - Madison Madison, Wisconsin Revisions:
No. Date: Description: Graphic Scale 12B1K
 Set Type
 PR

 Date Issued
 09/13/2013
 A202









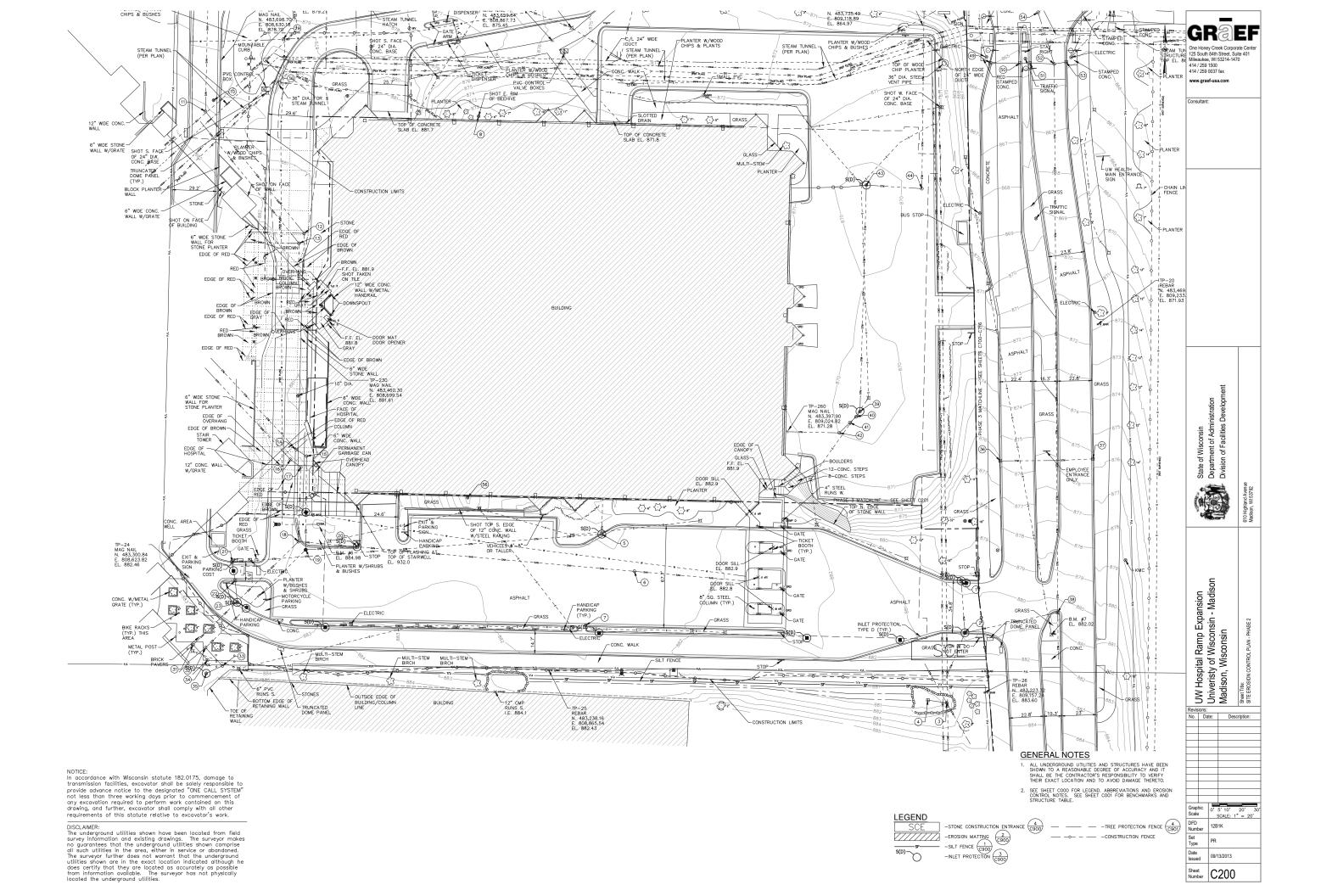
That part of the Southeast 1/4 of Section 16, Township 7 North, Range 9 East, in the City of Madison, Dane County, Wisconsin, more particularly described as follows:

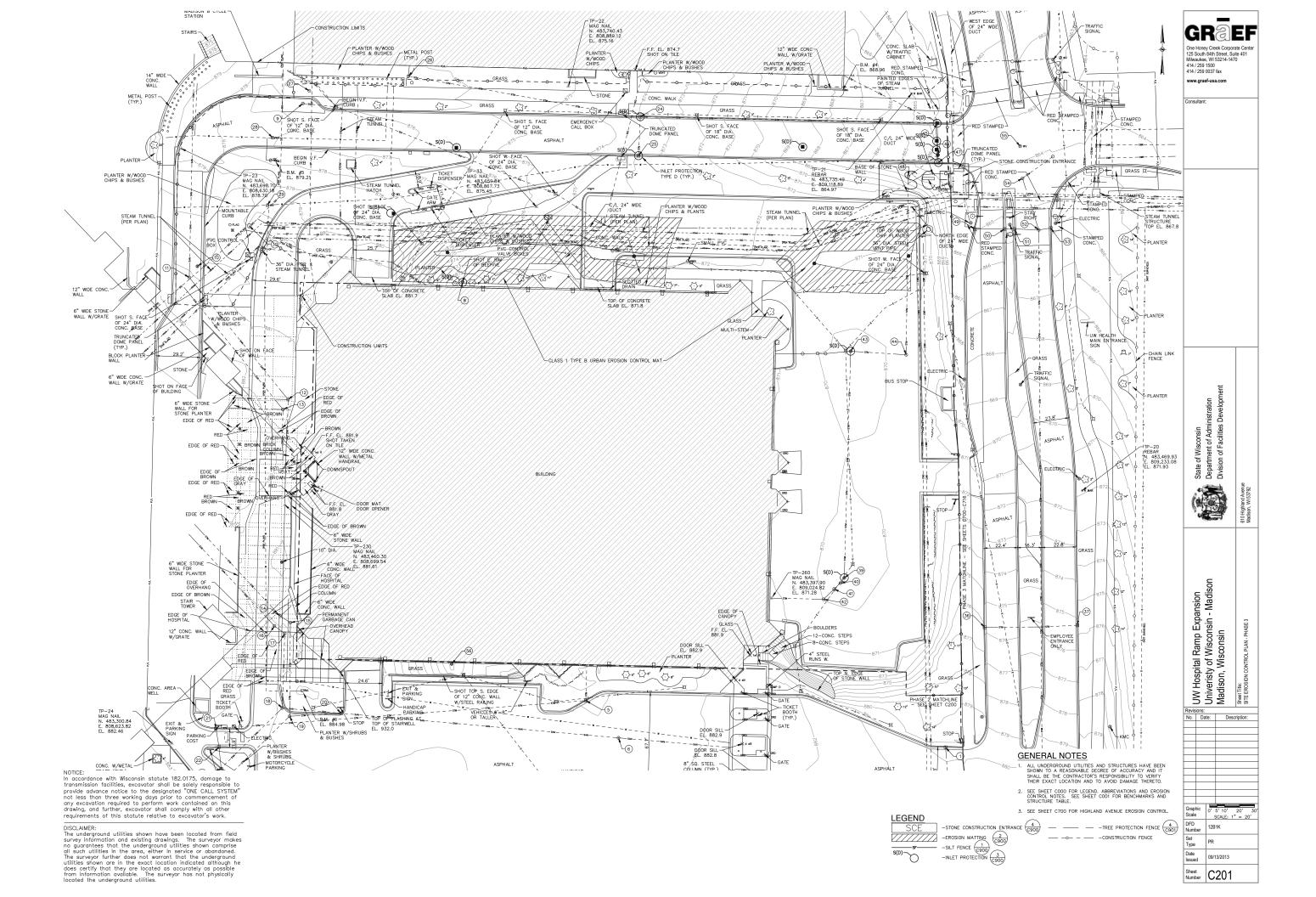
City of Madison, Dane County, Wisconsin, more particularly described as follows:

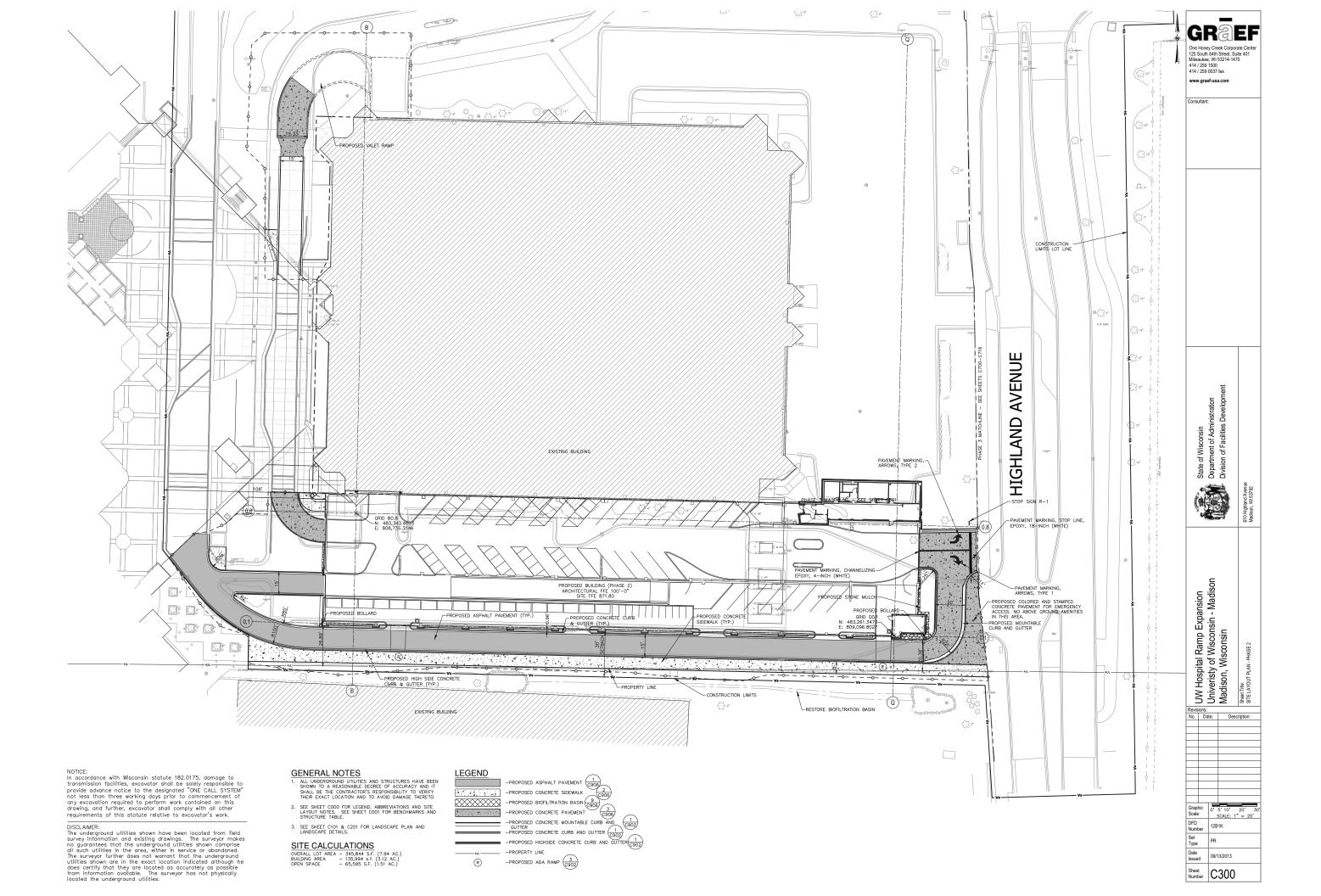
Commencing at the Southwest corner of said Southeast 1/4; thence South 89/31/28* East, on and along the south like of said Southeast 1/4, 73-4.61 feet; thence North 00/48/51* East, 21.9-4.0 feet to the point of beginning; thence continuing North 00/48/51* East, 22.90 feet to the beginning of a curve to the right, having a radius of 100.50 feet and a long chord of North 310/70/5* West, 44.74 feet; thence North orthogonal counce North orthogonal counce to the right, having a radius of 50.00 feet and a long chord of North 47/20/55* East, 56.9.9 feet; thence North 38/20/35* West, 35.79 feet; thence North 30/00/00* East, 10.75 feet to the beginning of a curve to the right, having a radius of 50.00 feet and a long chord of North 47/20/55* East, 56.75* East, 20.55* feet; thence North 88/4/35* East, 46.75* feet; thence North 1174/35* West, 79.49 feet; thence North 88/2/35* East, 46.75* feet; thence South 1174/35* East, 36.75* feet; thence North 88/2/235* West, 33.36* feet; thence South 00/30/54* East, 51.75* feet; thence South 88/2/235* West, 33.36* feet; thence South 00/30/54* East, 51.75* feet; thence South 88/2/235* West, 33.36* feet; thence North 00/30/54* East, 51.75* feet; thence North 88/4/24* West, 49.3.62* feet to the point of beginning.

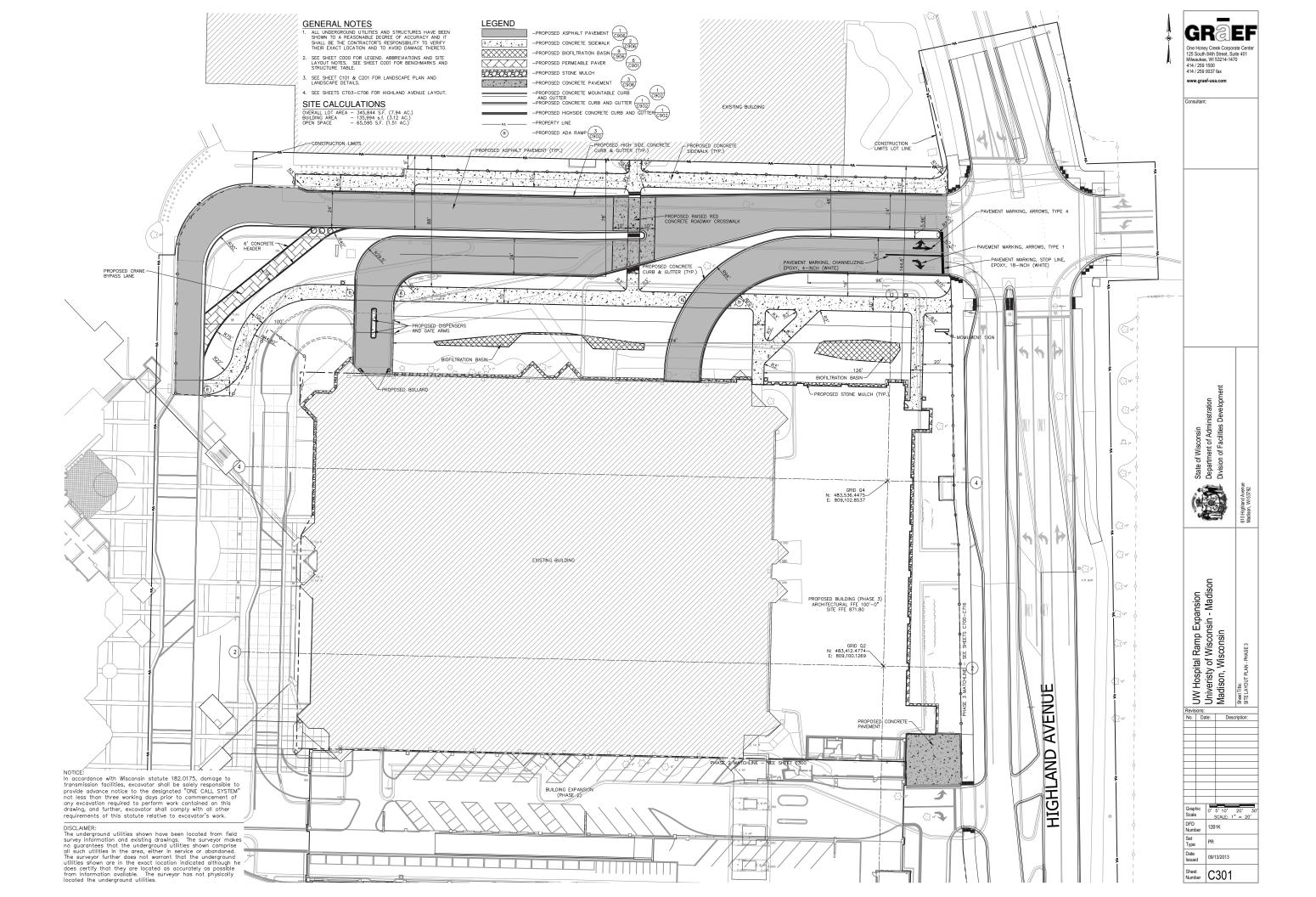
One Honey Creek Corporate Center 125 South 84th Street, Suite 401 Milwaukee, WI 53214-1470 414 / 259 1500 414 / 259 0037 fax www.graef-usa.com Consultant: State of Wisconsin
Department of Administration
Division of Facilities Development UW Hospital Ramp Expansion
Univeristy of Wisconsin - Madison
Madison, Wisconsin Graphic 0' 15' 30' 45
Scale 15' 30' 45
SCALE: 1" = 30'
Number
Set Type PR
Date Issued 09/13/2013

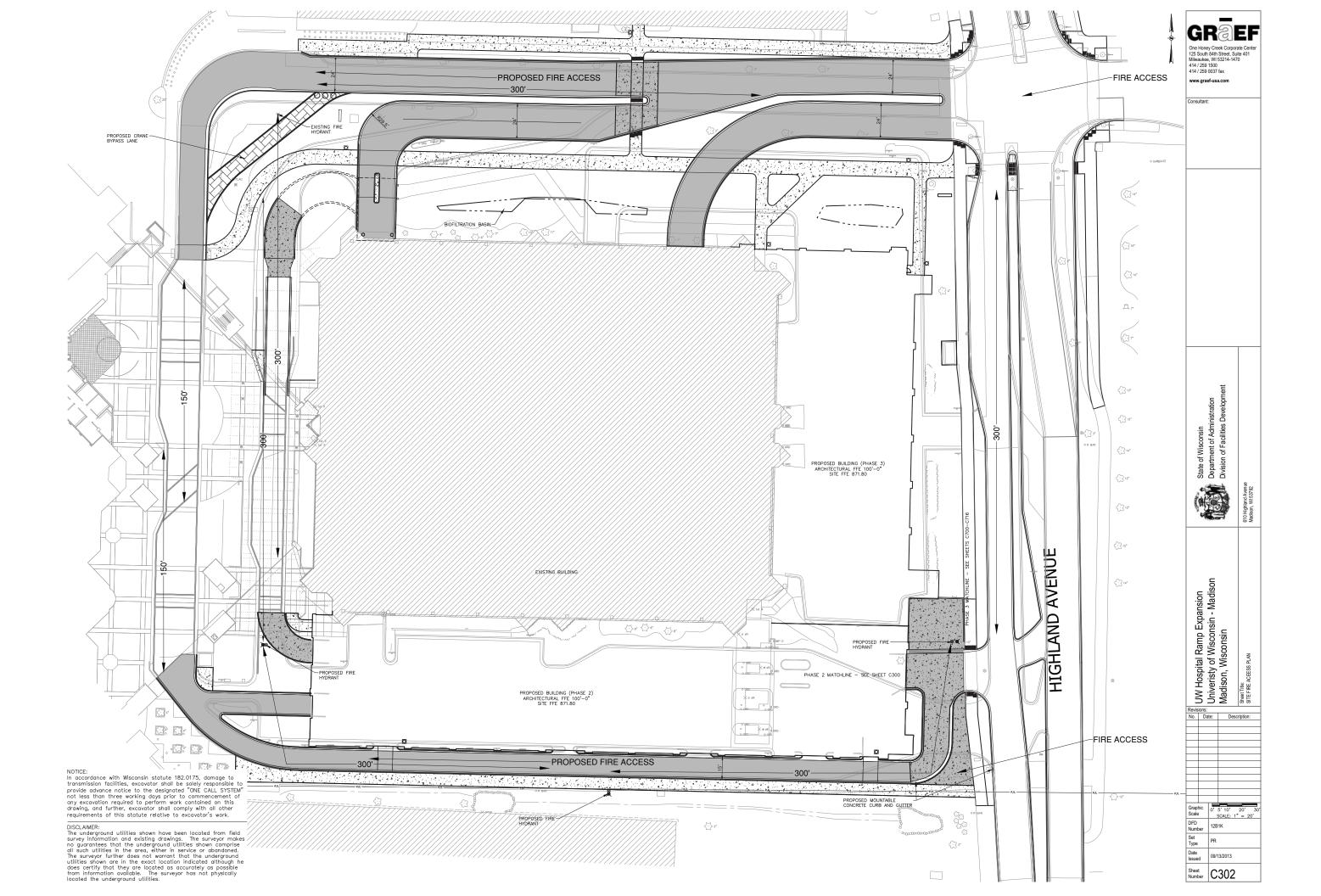
Sheet Number C100

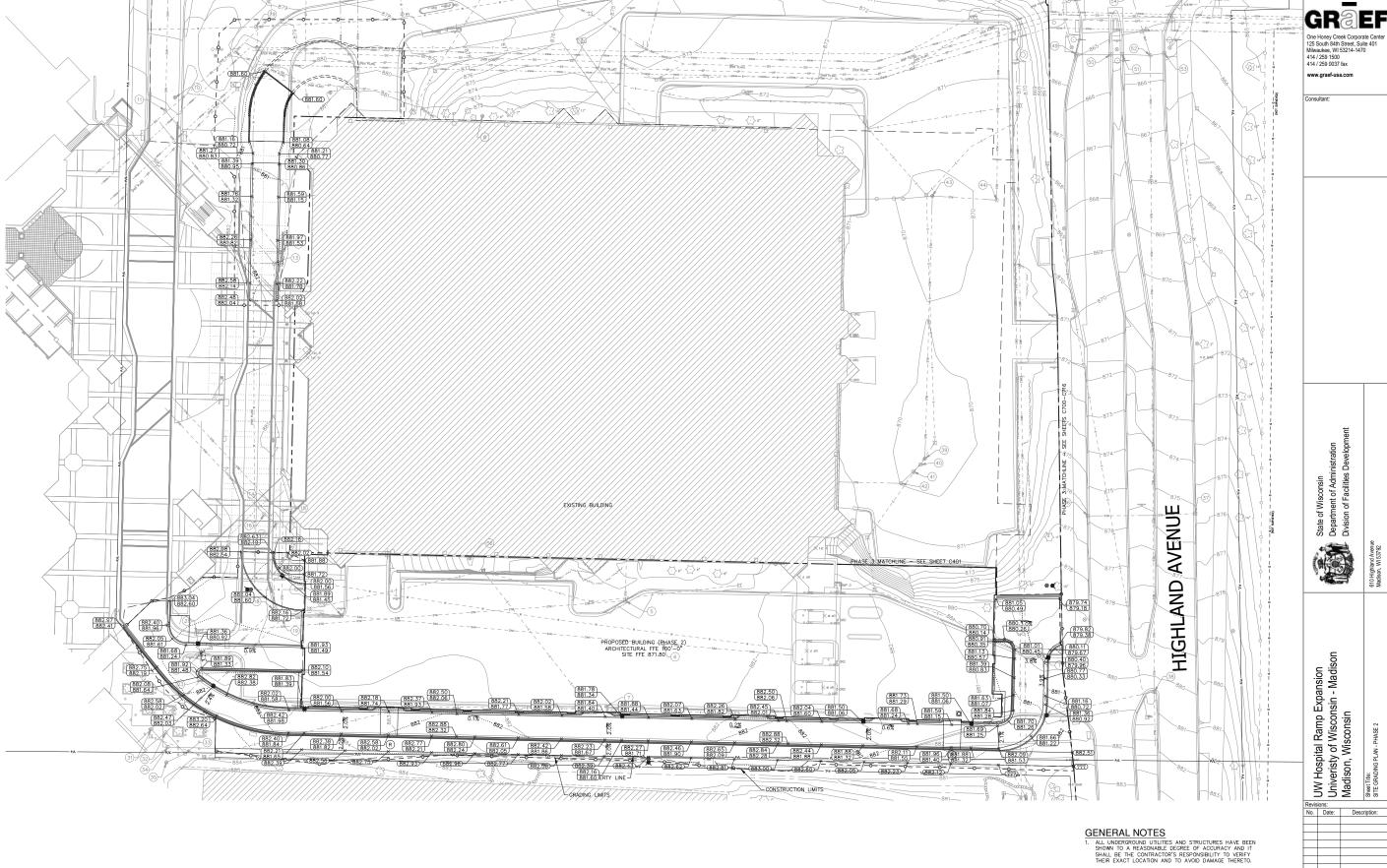












NOTICE:
In accordance with Wisconsin statute 182.0175, damage to transmission facilities, excavator shall be solely responsible to provide advance notice to the designated "ONE CALL SYSTEM" not less than three working days prior to commencement of any excavation required to perform work contained on this drawing, and further, excavator shall comply with all other requirements of this statute relative to excavator's work.

DISCLAIMER:
The underground utilities shown have been located from field survey information and existing drawings. The surveyor makes no guarantees that the underground utilities shown comprise all such utilities in the area, either in service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated although he does certify that they are located as occurately as possible from information available. The surveyor has not physically located the underground utilities.

SEE SHEET COOD FOR LEGEND. ABBREVIATIONS AND SITE GRADING AND TEMPORARY SEEDING NOTES. SEE SHEET COOT FOR BENCHMARKS AND STRUCTURE TABLE.

LEGEND

R

-EXISTING CONTOUR

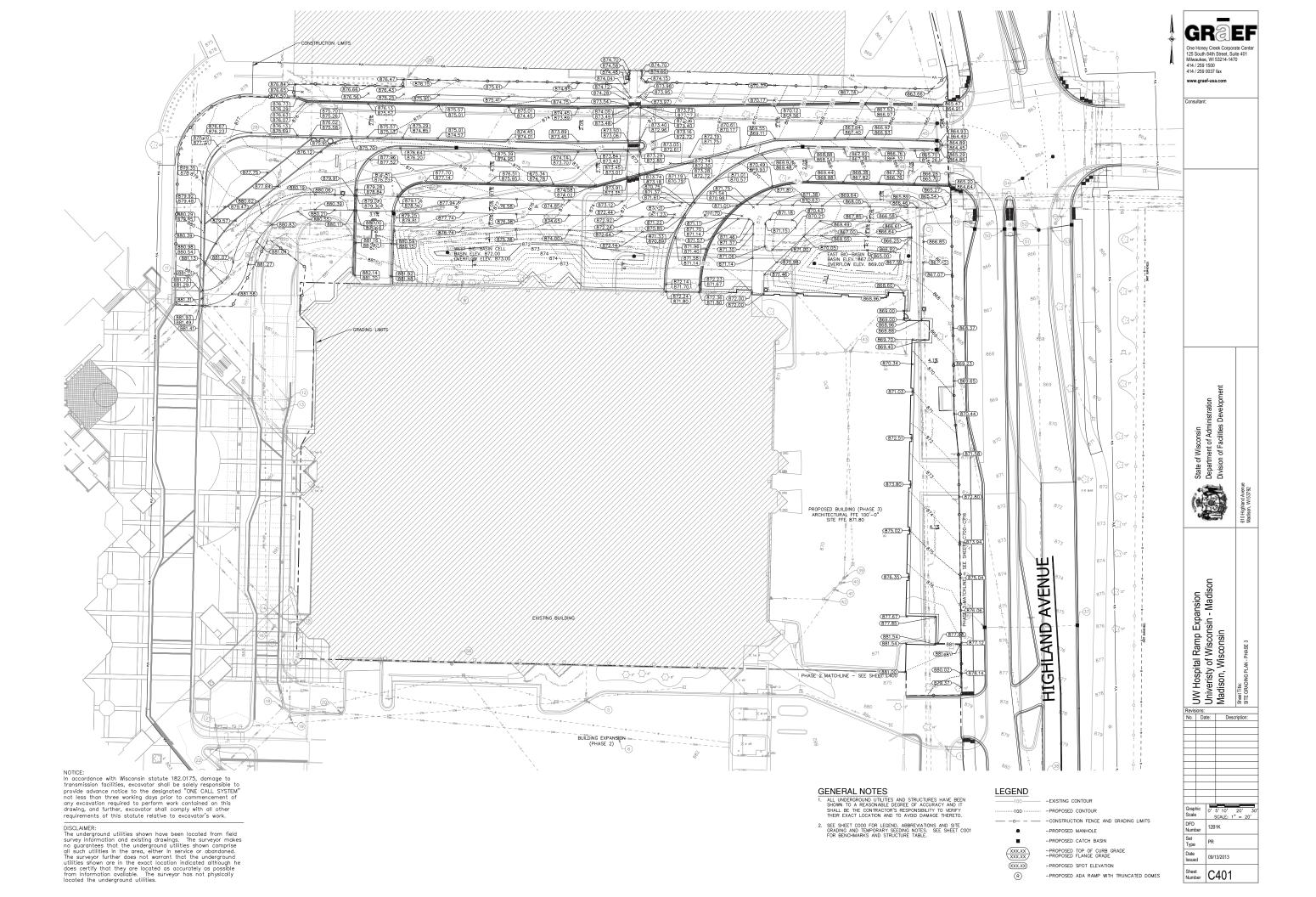
. -PROPOSED MANHOLE

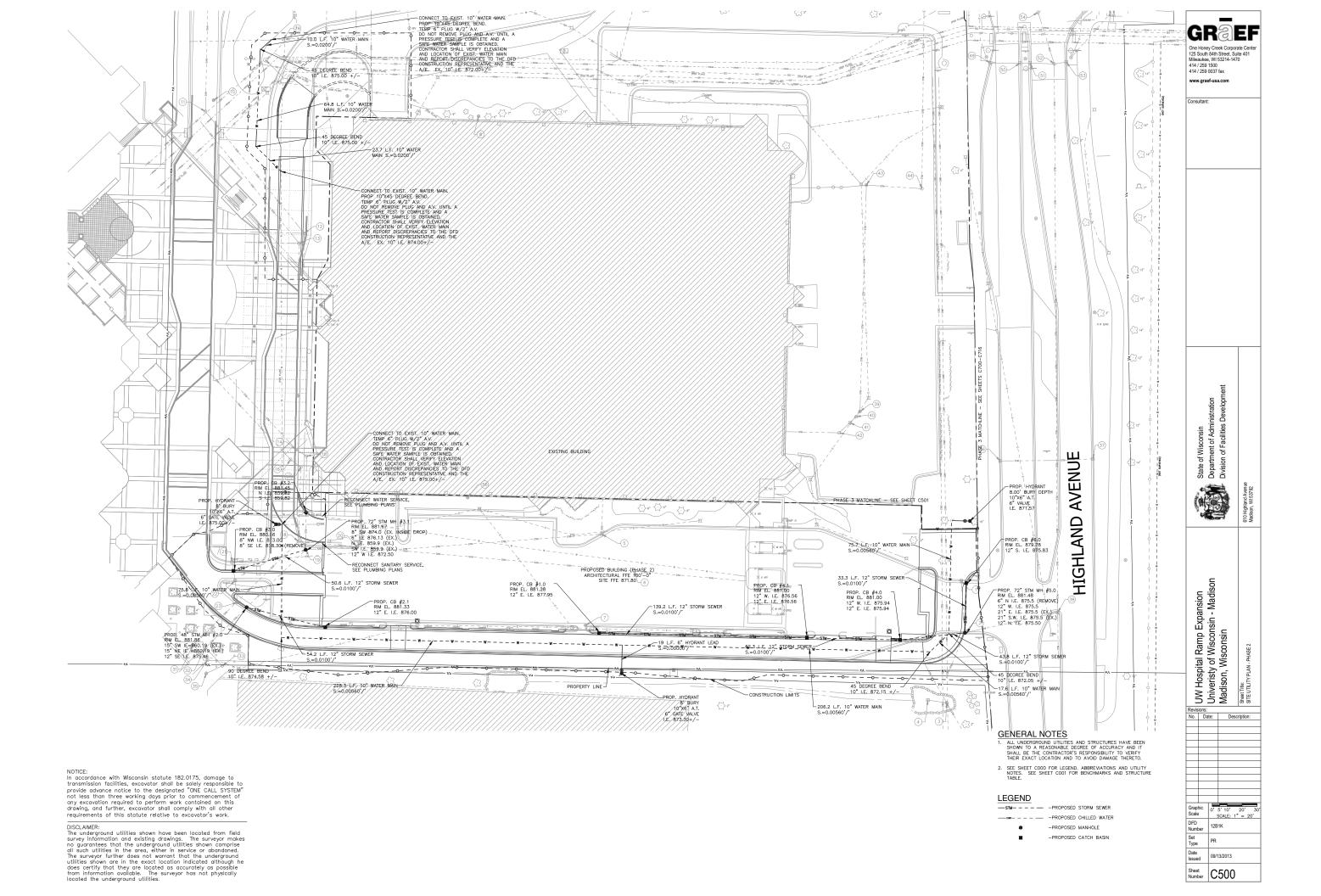
-PROPOSED CATCH BASIN

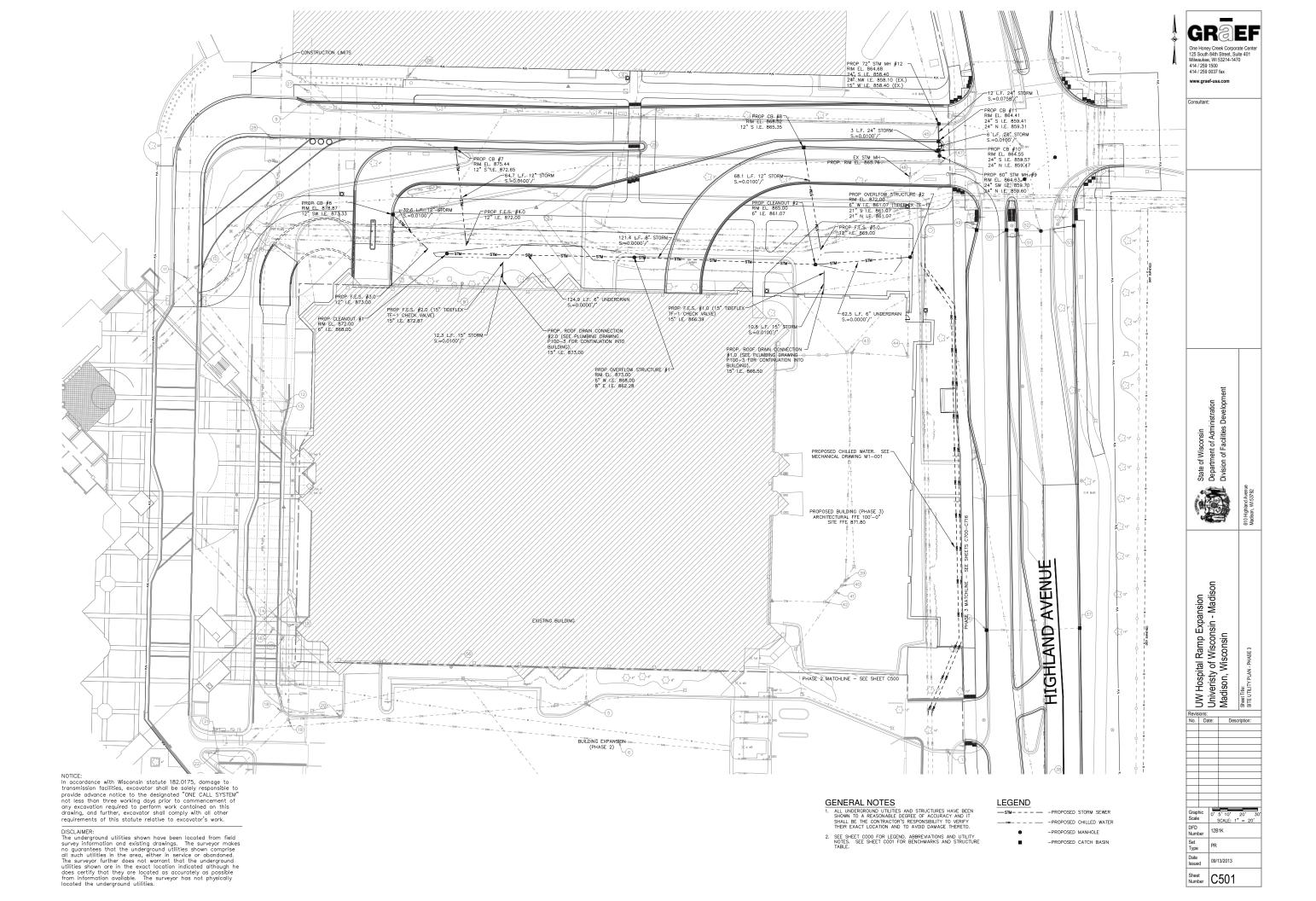
XXX.XX XXX.XX -PROPOSED TOP OF CURB GRADE -PROPOSED FLANGE GRADE (XXX.XX) -PROPOSED SPOT ELEVATION

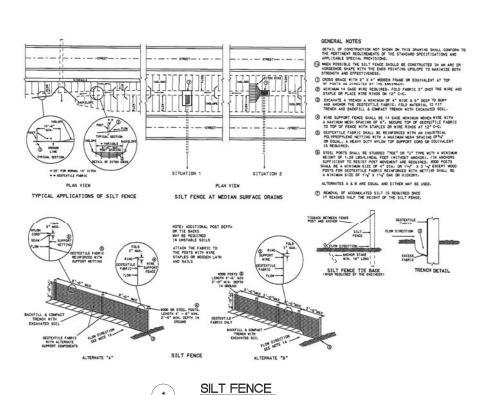
-PROPOSED ADA RAMP WITH TRUNCATED DOMES

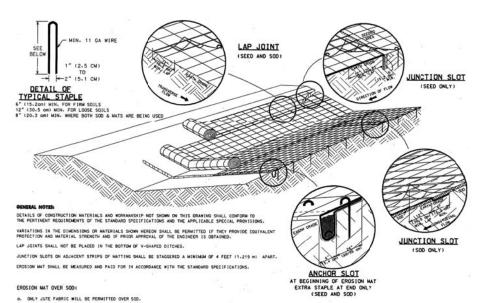
	IUIIS.			
No. Dat		te:	Description:	
_		_		
_	_	_		
_	_	_		
	_			
Grapi Scale			5' 10' 20' 30' SCALE: 1" = 20'	
DFD Numb			12B1K	
Set Type		PR		
Date Issued		09/13/2013		
Sheet Number		C	400	











STREET OR ROADWAY CONSTRUCTION ENTRANCE-(3" CLEAR STONE)

GENERAL NOTES:

- 1. CONSTRUCTION ENTRANCE TO BE INSTALLED PRIOR TO ANY TRAFFIC LEAVING THE SITE.
- 2. THE AGGREATE FOR THE CONSTRUCTION ENTRANCE SHALL BE 3 INCH CLEAR OR WASHED STONE.
- 3. AGGREGATE SHALL BE PLACED IN A LAYER AT LEAST 12 INCHES THICK.
- THE CONSTRUCTION ENTRANCE SHALL BE UNDERLAIN WITH A WOOT TYPE HR OR FF GEOTEXTILE FABRIC TO PREVENT MIGRATION OF UNERLYING SOIL INTO THE STONE.
- 6. CLEANING BY SCRAPING OR ADDING NEW STONE SHALL BE REQUIRED IF ENTRANCE BECOMES MORE THAN 50%

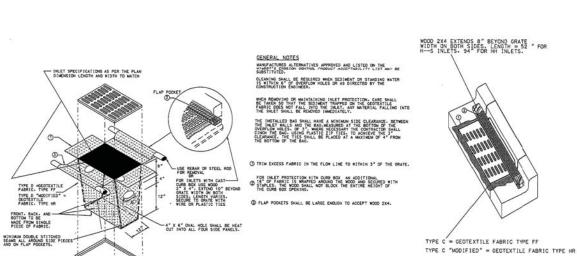


(4) CONSTRUCTION ENTRANCE

GENERAL NOTES:

CLEANING IS REQUIRED WHEN FABRIC HOLDS "2" OR MORE OF SEDIMENT OR WATER. OR AS DIRECTED BY THE CONSTRUCTION FOR INFER. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX. MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE WIGDOT EROSION CONTROL PRODUCT ACCEPTIBILITY LIST MAY BE SUBSTITUTED.

- FABRIC SIZE SHALL BE 8" (MIN) GREATER ON ALL SIDES
 OF THE INLET COVER TO PROVIDE A HAND HOLD WHEN
 MAINTENANCE OR REMOVAL IS REQUIRED.
- FOR INLET PROTECTION, TYPE C WITH A CURB BOX.
 AN ADDITIONAL 18 OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES.



b. WOOD STAKES FOR SOD MAY BE OMITTED BY THE ENGINEER IF EXISTING SLOPE AND SOIL CONDITIONS SO WARRANT

JUNCTION OR ANCHOR SLOTS SHALL BE AT MINIMUM INTERVALS OF 100 FEET (30.48 m) ON GRADES UP TO AND INCLUDING 3 PERCENT, AND 50 FEET (15.24 m) ON GRADES EXCEEDING 3 PERCENT.

2 EROSION MATTING
N.T.S.

G. THE WIDTH OF EROSION MAT SHALL ALWAYS EXCEED THE SOD WIDTH.

ERDSION MAT OVER SEEDING:

(CAN BE INSTALLED IN ANY INLET TYPE WITH OR WITHOUT A CURB BOX AS PER NOTE (2)

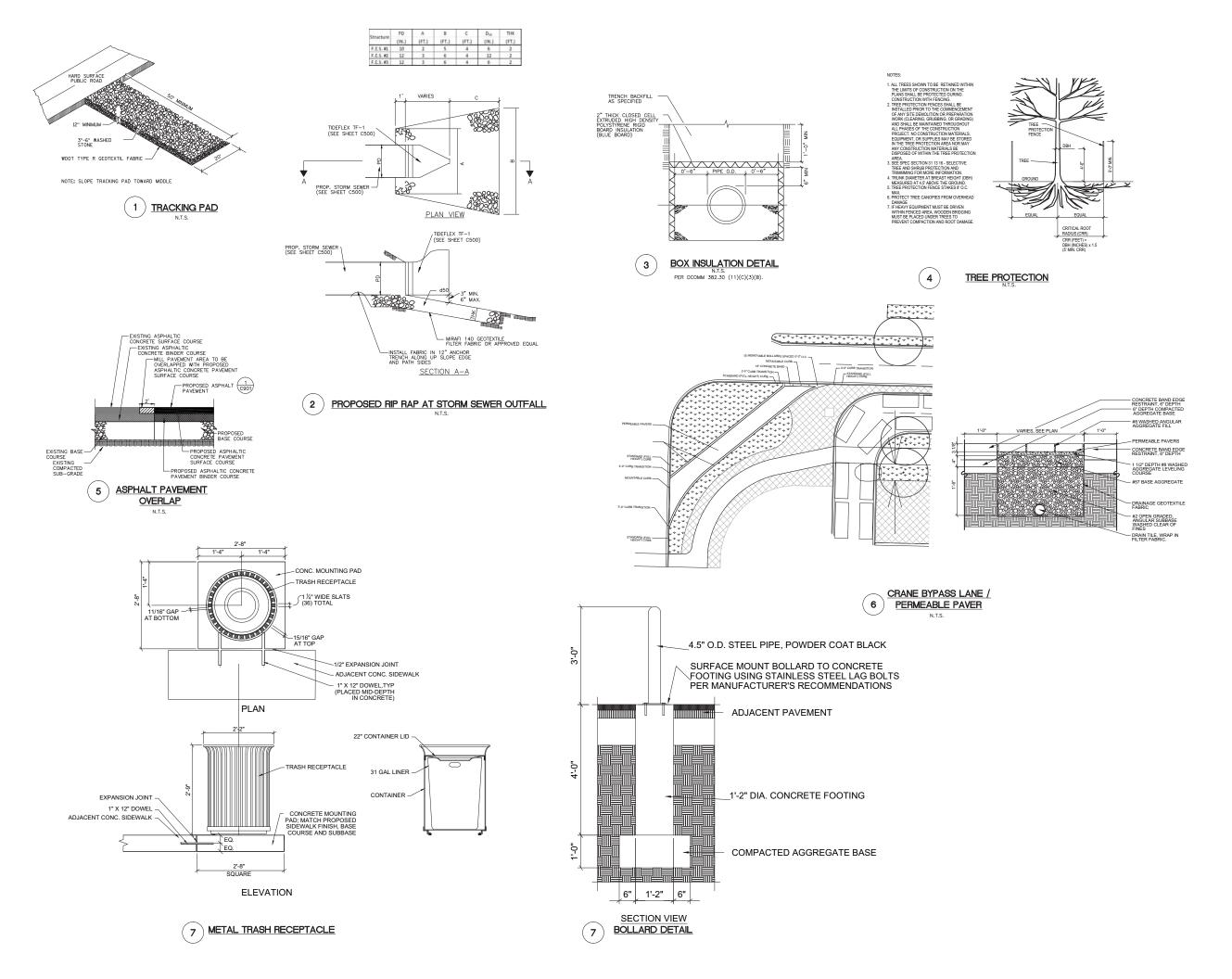
INLET PROTECTION TYPE C, D



www.graef-usa.com

Graphic Scale DFD Number 12B1K Set Type Date Issued

09/13/2013 C900



One Honey Creek Corporate Center 125 South 4th Street, Suite 401 Milwaukee, WI 53214-1470 414 / 259 1500 414 / 259 1037 fax www.graef-usa.com

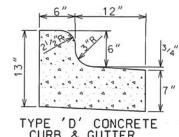
State of Wisconsin
Department of Administration
Division of Facilities Developme

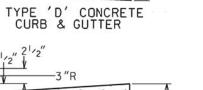
UW Hospital Ramp Expansion Univeristy of Wisconsin - Madison Madison, Wisconsin

Graphic Scale

DFD Number 12B1K

| Date | 09/13/2013 | Sheet | Number | C901





TYPE 'A' MOUNTABLE CONCRETE CURB & GUTTER (PAY AS TYPE 'A' CURB AND GUTTER)

11'

12" 12" 13'4" 13'4" 173'4"

TYPE 'G' CONCRETE CURB & GUTTER

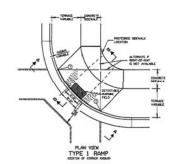
GENERAL NOTES:

LATERAL CONTRACTION JOINTS SHALL BE PLACED AT INTERVALS OF NOT MORE THAN 15' NOR LESS THAN 6' IN LENGTH. THE JOINTS SHALL BE A MINIMUM OF 3" IN DEPTH

EXPANSION JOINTS SHALL BE PLACED TRANSVERSLY AT RADIUS PDINTS ON CURVES OF RADIUS 200' OR LESS, AND AT ANGLE POINTS. OR AS DIRECTED BY THE ENGINEER. THE EXPANSION JOINT SHALL BE A ONE PIECE ASPHALTIC MATERIAL HAVING THE SAME DIMENSIONS AS CURB & GUTTER AT THAT STATION AND BE 1/2" THICK.

IN ALL CASES, CONCRETE CURB & GUTTER SHALL BE PLACED ON THOROUGHLY COMPACTED CRUSHED STONE

1 CONCRETE CURB AND GUTTER N.T.S.



NOTE: MATERIALS AND METHOD OF CONSTRUCTION FOR TRUNCATED DOMES SHALL BE SPECIFED IN SPECIAL PROVISIONS OR AS REQUIRED BY THE CITY ENGREER

GENERAL NOTES

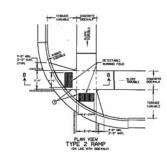
THE 3-A ROWS SHALL BE USED IN NEW SEVEDHOUTS UALESS CHEMISE AMMOODS IN THE OTT CHARGE. AMMOODS IN THE OTT CHARGE. AND WORKMANDS WICE SHOWN ON THIS DAMED SHALL SHOW THE PERFORMANCES OF THE STREAMS SHOWN OF THE PERFORMANCES OF THE STREAMS STOTICATION.

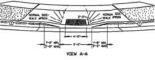
RAME SHALL BE SAIL AT BRIDE OF FAUTHER. WICE MEDICATION, THE SECREMA ELEVATION AND ASSESSMENT, THE SECREMA ELEVATION AND ASSESSMENT, THE SECREMA ELEVATION AND ASSESSMENT, THE SECREMA ELEVATION AND ASSESSMENT.

STETTING A NAME FIRST STALL IN MODIFIES HE STALL FOR A TURE NAME STETTING AND STALL FOR A STALL AND STALL FOR A STALL FOR A TURE NAME STALL FOR A STALL FOR A STALL AND STALL AND STALL SALL FOR A STALL FOR A STALL FOR A STALL FOR A STALL AND STALL AND STALL FOR A STAL

THIS POINT IS AN EXTENSION OF OUTSIDE IDOS OF APPROACHES SOCIALLY WHERE IT MEETS THE MACK OF CONCRETE CARE.

② WIEN THE DISTANCE IS LESS THAN 9-0" IT MAY BE DIFFICULT TO ADMINE A 12MMY SLOPE, OR FLATTOR, ON THE RIGHT REDUCE CURE MEDIAL IN TRANSLE MEDIA TO ADMINE THAN SLOPE, OR FLATTOR, ON ARMS, 2" MINIMAL CURB HEIGHT.





LEGENO

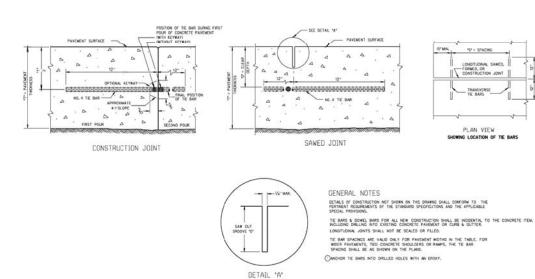
— F CIPMIGN JON JOCKAJ

— — CONTRACTION JON JIELD LOCATED

REMINISTER PROJECT MARKEN, WITE 6-ROI

3 CURB AND SIDEWALK RAMPS





2 SAWED JOINT

www.graef-usa.com

State of Wisconsin
Department of Administration
Division of Facilities Developme

UW Hospital Ramp Expansion Univeristy of Wisconsin - Madison Madison, Wisconsin

Graphic Scale

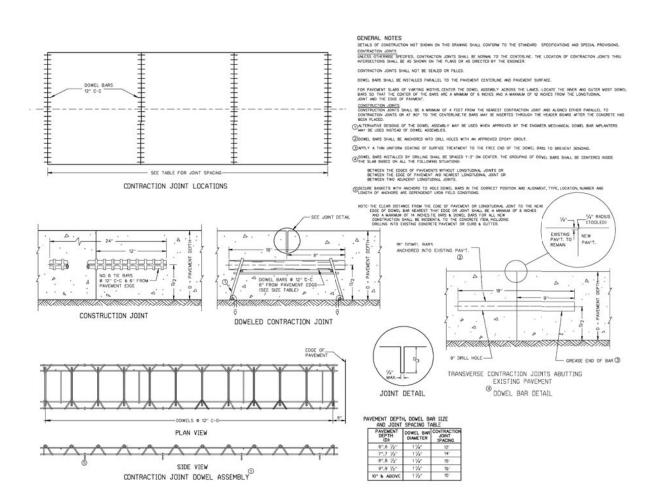
DFD
Number

12B1K

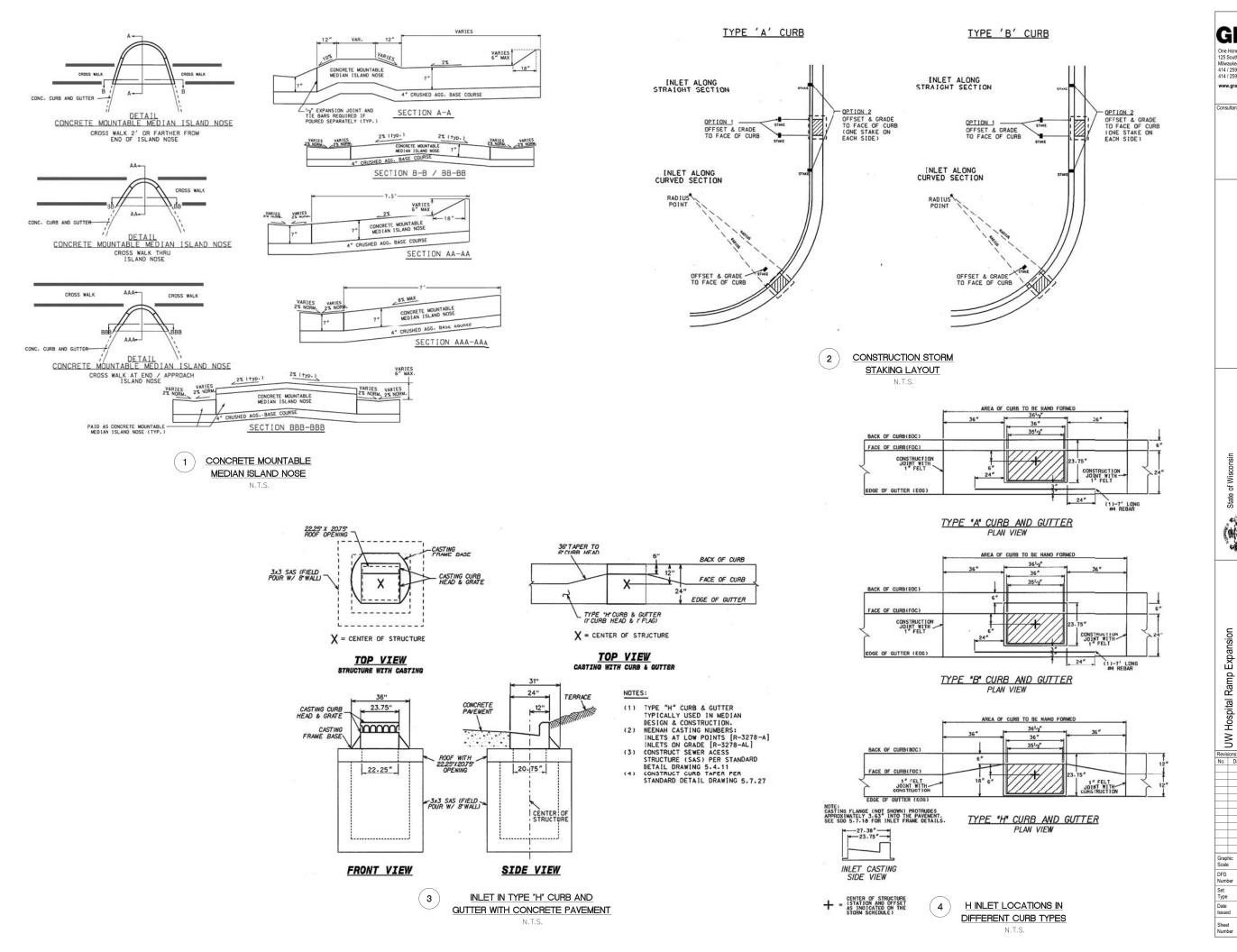
Set Type Date Issued

09/13/2013 C902

Consultant:







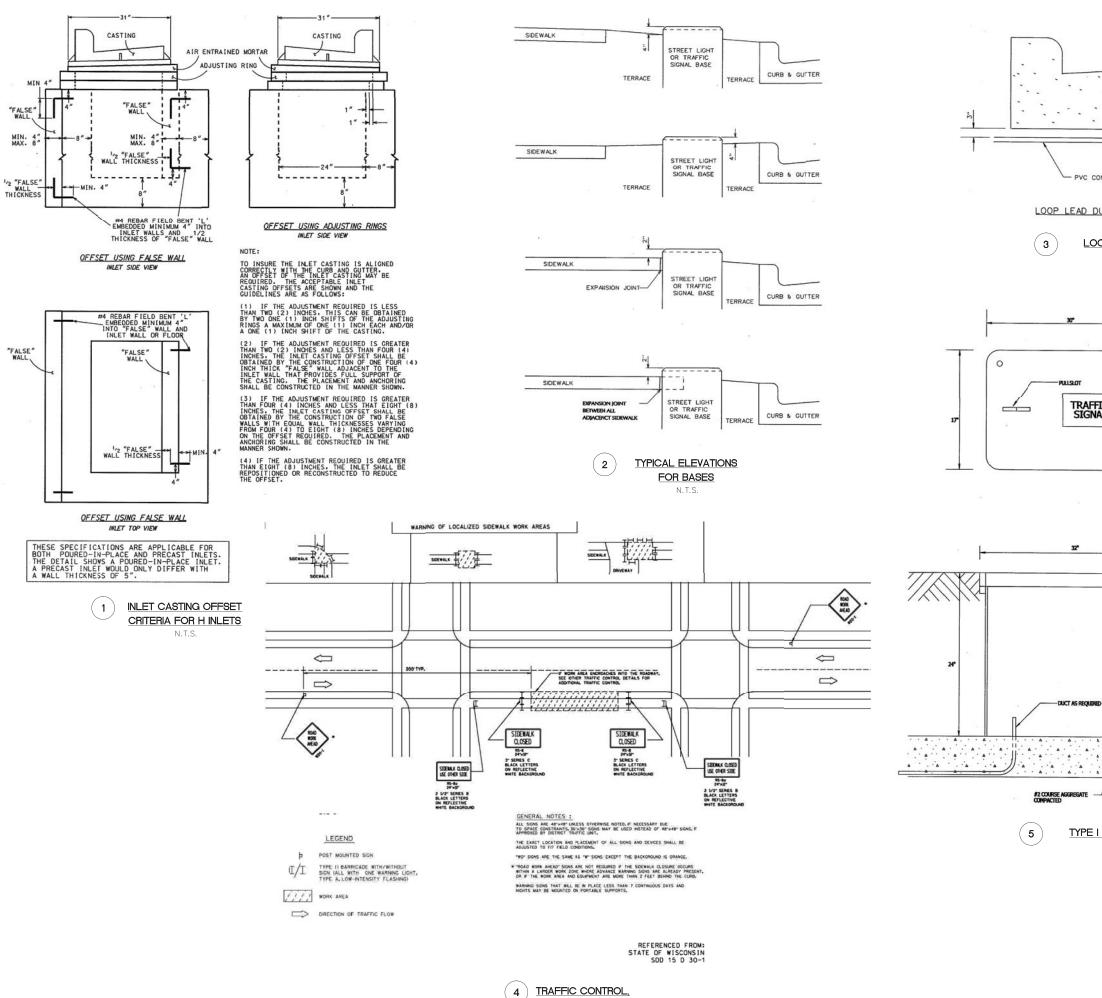
www.graef-usa.com consultant: State of Wisconsin Department of Administration Division of Facilities Developme UW Hospital Ramp Expansion Univeristy of Wisconsin - Madison Madison, Wisconsin

Graphic Scale

12B1K

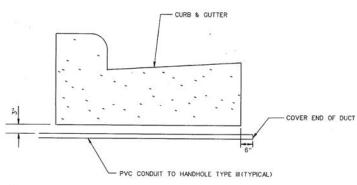
09/13/2013

C903



SIDWALK CLOSURE

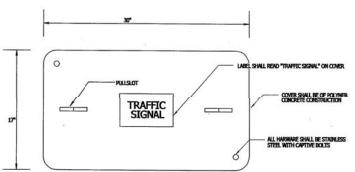
N.T.S.

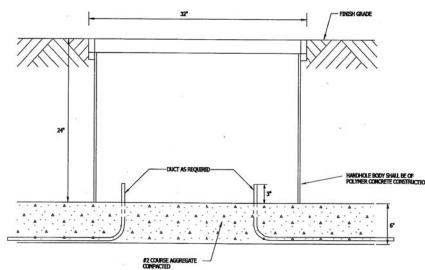


LOOP LEAD DUCT DETAIL

LOOP LEAD DUCT

N.T.S.





TYPE I HANDHOLE

N.T.S.

UW Hospital Ramp Expansion Univeristy of Wisconsin - Madison Madison, Wisconsin Graphic Scale DFD Number 12B1K Set Type Date Issued 09/13/2013 C904

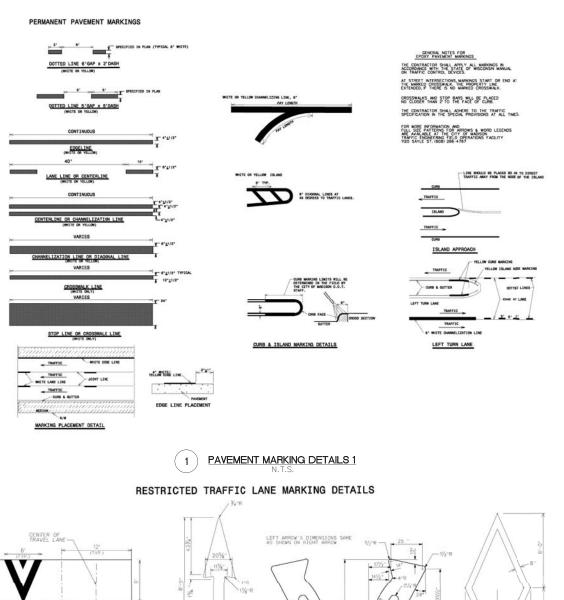
State of Wisconsin

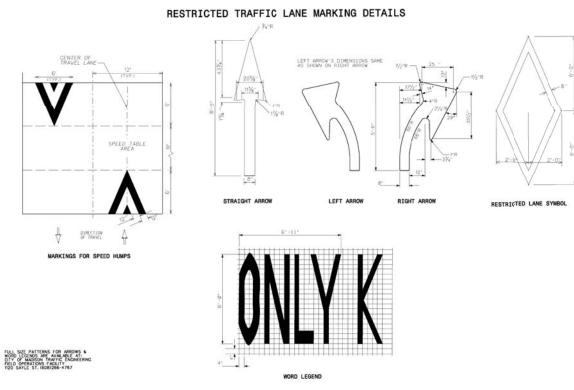
Department of Administration

Division of Facilities Developme

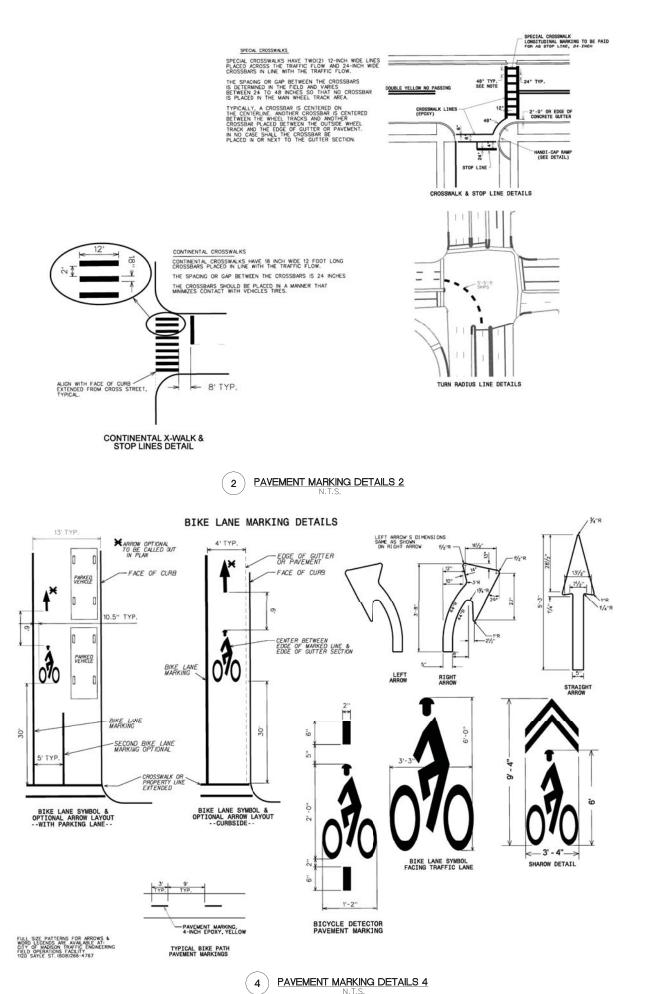
www.graef-usa.com

Consultant:









Graphic Scale DFD Number Set Type Date Issued 12B1K 09/13/2013 Sheet Number C905

GRaEF

One Honey Creek Corporate Cente 125 South 84th Street, Suite 401 Milwaukee, WI 53214-1470 414 / 259 1500 414 / 259 0037 fax

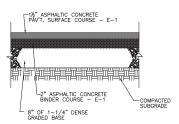
www.graef-usa.com

State of Wisconsin

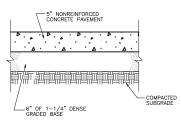
Department of Administration
Division of Facilities Developme

UW Hospital Ramp Expansion Univeristy of Wisconsin - Madison Madison, Wisconsin

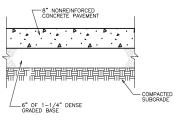
Consultant:



(1) ASPHALT PAVING SECTION

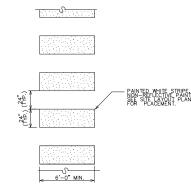


2 CONCRETE SIDEWALK

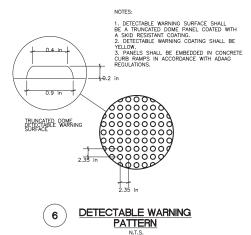


(3) CONCRETE PAVEMENT





5 CROSSWALK PAVEMENT MARKING



-SEE LANDSCAPE DRAWINGS FOR BIO-FILTRATION BASIN PLANTINGS. -2-9" ENGINEERED FILL LIFTS

PRIOR TO SPREADING, THE LANDSCAPE CONTRACTOR SHALL CLEAN ENGINEERED FILL OF ROOTS/STONES/FOREIGN MATTER

BIO-FILTRATION BASIN PLANTING

N.T.S.

BIO-RETENTION NOTES:

ROOTSTOCK AND PLUGS SHALL BE USED IN ESTABLISHING TREES, SHRUBS AND HERBACEOUS PERENNIALS. SEED SHALL NOT BE USED TO ESTABLISH VEGETATION. SHREDDED HARDWOOD MULCH OR CHIPS, AGED A MINIMUM OF 12 MONTHS, SHALL BE PLACED ON THE SURFACE OF THE BIORETENTION AREA. THE MULCH SHALL BE FREE OF FOREIGN MATERIAL, INCLUDING OTHER PLANT MATERIAL.

THE COMPOST COMPONENT SHALL MEET THE REQUIREMENTS OF WISCONSIN DEPARTMENT OF NATURAL RESOURCES SPECIFICATION S100, COMPOST.

THE ENGINEERED SOIL MIX SHALL HAVE A PH BETWEEN 5.5 AND 6.5. THE ENGINEERED SOIL MIX SHALL HAVE ADEQUATE NUTRIENT CONTENT TO MEET PLANT GROWTH REQUIREMENTS.

THE FOLLOWING REQUIREMENTS SHALL BE MET IN DESIGNING THE SAND OR GRAVEL STORAGE LAYER:

A LAYER OF SAND MAY BE USED IN LIFU OF GRAYEL TO FORM THE STORAGE LAYER. THE SAND SHALL BE WASHED OLDATED OS BUILCA SAND PARTICLES SHALL BE 0.02 TO 0.04 INCHES IN DIAMETER (USDA COARSE SAND). MANUFACTURED SAND OR STONE DUST IS NOT ALLOWED.

THE UNDERGRAIN PIPE. SHALL BE PROTECTED WITH FILTER FABRIC. THE OPENINGS IN THE FABRIC SHALL BE SMALL ENOUGH TO PREVENT SAND PARTICLES FROM ENTERING THE UNDERGRAIN PIPE. THE FLOW RATE OF THE FABRIC SHALL BE CAPABLE OF THE FABRIC SHALL BE CAPABLE OF THE FABRIC SHALL BE CAPABLE OF TOTAL COMBINED PERFORATIONS IN THE OFFICE OF THE FABRIC SHALL BE CAPABLE OF TOTAL COMBINED PERFORATIONS IN THE OFFICE SHALL BE CAPABLE THE TOTAL COMBINED PERFORATIONS IN THE OFFICE SHALL BE CAPABLE THE STRUCTURE CONSTRUCTION, SECTION 612.2.8(1–3), 2003 EDITION, OR AN EQUIVALENT PAPPROVED BY THE CITY OF LACKOSSE.

A CLEAN OUT SHALL BE RIGID, NON-PERFORATED PVC PIPE, COVERED WITH A WATERTIGHT CAP THAT IS FLUSH WITH THE GROUND ELEVATION OF THE DEVICE.

IF THERE IS NO UNDERDRAIN, ONE OR MORE OBSERVATION WELLS SHALL BE INSTALLED TO MONITOR DRAINAGE FROM THE DEVICE. THE OBSERVATION WELL SHALL BE A MINIMUM 6—INCH DIAMETER SLOTTED PVC PIEF. ANCHORDE VERFICALLY TO A FOOTPLATE A THE BOTTOM OF THE BURETENTION DEVICE. THE TOP OF THE PIEF SHALL BE HIGH ENDUGHT TO PREVENT THE TOP OF THE PIEF SHALL BE HIGH ENDUGHT TO PREVENT THE TOP OF THE PIEF SHALL BE HIGH ENDUGHT TO PREVENT THE TOP OF THE PIEF SHALL BE HIGH ENDUGHT TO PREVENT THE TOP OF THE PIEF SHALL BE HIGH ENDUGHT TO PREVENT THE TOP OF THE PIEF SHALL BE A SECURED ASSOCIATED.

COMPACTION AND SMEARING OF THE SOULS BENEATH THE FLOOR AND SIDE SLOPES OF THE BIORETENTION AREA, AND COMPACTION OF THE SOULS USED FOR BACKFILL IN THE SOUL HEATING BED, SHALL BE MINIMIZED, DURING SITE DEVELOPMENT, THE AREA DEDICATED TO THE BIORETENTION DEVICE SHALL BE CORDONED OF TO PREVENT ACCESS BY HEATY EQUIPMENT, ACCEPTABLE EQUIPMENT FOR CONSTRUCTING THE BIORETENTION DEVICE INCLIDES EXCAVATION HES, LIGHT EQUIPMENT OF MIDDETTRACK LOADERS.

IF COMPACTION OCCURS AT THE BASE OF THE BIORETENTION DEVICE, THE SOIL SHALL BE REFRACTURED TO A DEPTH OF AT LEAST 12 INCHES, IF SMEARING OCCURS, THE SMEARED AREAS OF THE INTERFACE SHALL BE CORRECTED BY RAKING OR ROTO—TILLION. PRIOR TO PLACEMENT IN THE BIORETENTION DEVICE, THE ENGINEERED SOIL SHALL BE PREMIXED AND THE MOISTURE CONTENT SHALL BE LOW ENOUGH TO PREVENT CLUMPING AND COMPACTION DIRING PLACEMENT.

THE ENGINEERED SOIL SHALL BE PLACED IN MULTIPLE LIFTS, EACH APPROXIMATELY 12 INCHES IN DEPTH.

THIS INFILTRATION DEVICE IS NOT SUITABLE FOR TREATING CHLORIDES, CHLORIDE USE ON SOURCE AREAS TRBUTARY TO THE BIORETENTION DEVICE CAN BE REDUCED OR ELIMINATED BY MINIMIZING THE AMOUNT OF COMPOUND USED, USING ALTERNATIVE DE-ICERS OR USING CLEAN SAND, AGGRESSIVE SWEEPING IN THESE AREAS, ALONG WITH PRETREATMENT SUMPS AND FILTER STRIPS, WILL REDUCE MPACT OF THE SAND ON THE BIORETENTION DEVICE.

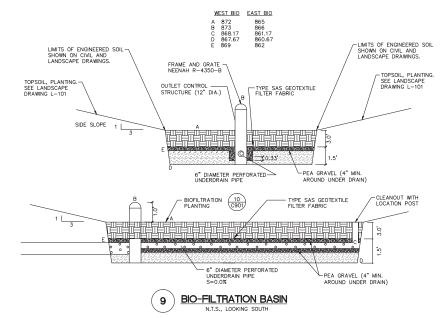
THE CONTRACTOR SHALL SUBMIT CERTIFICATIONS PRIOR TO USE FOR ALL MATERIALS THAT ARE TO BE INCORPORATED INTO THE PROJECT STATING COMPLIANCE WITH THE STANDARDS. THE FOLLOWING MAINTENANCE IS REQUIRED BY THE OWNER:

WATER PLANTS AS NECESSARY DURING FIRST GROWING SEASON.
WATER AS NECESSARY DURING DRY PERIODS AS NEEDED AFTER FIRST GROWING SEASON.
REAMULCH VOID AREAS AS NEEDED.
TREAT DISEASED TREES AND SHRUBS AS NEEDED.
INSPECT SOIL AND REPAIR ERODED AREAS MONTHLY.
REMOVE LITER AND DERBIK MONTHLY.
ADD ADDITIONAL MULCH ONCE PER YEAR.

SOURCE: WISCONSIN DEPARTMENT OF NATURAL RESOURCES. STORM WATER MANAGEMENT TECHNICAL STANDARD 1004 - BIORETENTION FOR INFILTRATION 11/2010.

ENGINEERED SOIL

SAND OR GRAVEL STORAGE

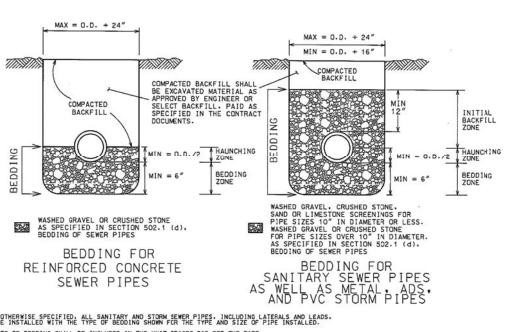




State of Wisconsin Department of Administration Division of Facilities Developm

UW Hospital Ramp Expansion Univeristy of Wisconsin - Madison Madison, Wisconsin

Graphic Scale DFD Number 12B1K Set Type Date Issued 09/13/2013 C906



UNLESS OTHERWISE SPECIFIED, ALL SANITARY AND STORM SEWER PIPES, INCLUDING LATERALS AND LEADS, SHALL BE INSTALLED WITH THE TYPE OF BEDDING SHOWN FOR THE TYPE AND SIZE OF PIPE INSTALLED.

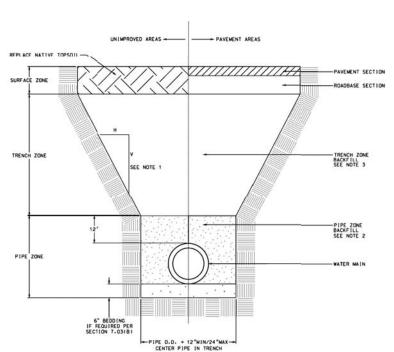
BEDDING SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE PIPE. ING INCLUDES THE HAUNCHING & BEDDING ZCNES. IPES. THE BEDDING INCLUDES THE HAUNCHING. BEDDING & INITIAL BACKFILL ZONES. HALL BE INSTALLED & COMPACTED IN 6. MAXIMUM LIFTS.

ALL TRENCHES SHALL BE HAND BACKFILLED TO A POINT 12' ABOVE THE TOP OF THE PIPE. ALL BEDDING SHALL BE MECHANICALLY COMPACTED.

PAYMENT SHALL NOT BE MADE FOR BACKFILL WITH EXCAVATED MATERIAL. IF APPROVED. SELECT FILL. IF REQUIRED, SHALL BE PAID PER CONTRACT.

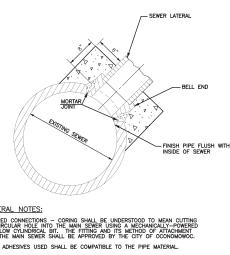
O.D. EQUALS THE OUTSIDE DIAMETER OF THE PIPE.

(2) CLASS 'B' BEDDING DETAIL FOR SANITARY SEWER CLASS "C" BEDDING DETAIL FOR STORM SEWER



NOTES:

- ALL EXCAVATION SHALL BE IN ACCORDANCE WITH THE WISCONSIN ADMINISTRATIVE CODE FOR "TRENCH EXCAVATION. AND TUNNEL CONSTRUCTION" AND ANY ADDITIONAL REQUIREMENTS INCLUDED IN THE CONTRACT DOCUMENTS.
- 2) BACKFILL OPERATIONS SHALL COMPLY WITH SECTION 703.8 AND SUBSECTION 202.2(B). THE PIPE ZONE SHALL CONSIST OF SELECT FILL SAND. LIMESTONE SCREENINGS. WASHED OR CLEAR STONE. GRAVEL OR CRUSHED STONE.
- 3) BACKFILL OPERATIONS FOR THE TRENCH ZONE SHALL COMPLY WITH SECTION 703.11.
- 4) COMPACTION REQUIREMENTS:
 PIPE ZONE: COMPACT BEDDING MATERIAL USING A HAND OPERATED MECHANICAL COMPACTOR.
 FROM 2' OVER PIPE TO 3' BELOW SUBGRADE: MINIMUM OF 90% OF MAX DENSITY.
 WITHIN 3' OF BOTTOM OF SUBGRADE: MINIMUM OF 95% OF MAX DENSITY.
 - **(5**) WATER MAIN TRENCH DETAIL



GENERAL NOTES:

NEW SEWER (TYP.)

(41)

SIDE VIEW

BULKHEAD DETAIL

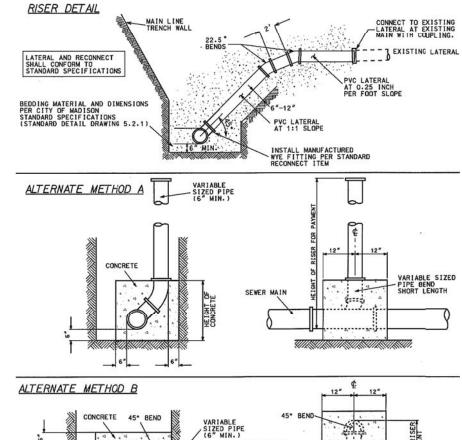
FRONT VIEW

STANDARD GATE VALVE

BOX SETTING

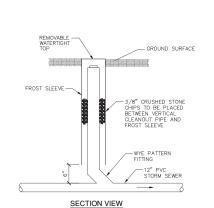
- 2. ALL ADHESIVES USED SHALL BE COMPATIBLE TO THE PIPE MATERIAL
- 3. CORED CONNECTIONS SHALL BE CORED IN THE UPPER QUADRANT AT AN ANGLE 45 DEGREES WITH THE HORIZONTAL.
- - 3 CORED SEWER CONNECTION

PLUG EXIST. HOLE WITH CONCRETE AND RESHAPE BENCH.

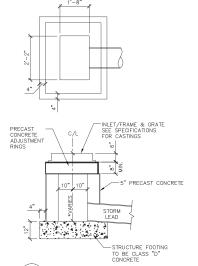




SEWER MAIN



CLEANOUT DETAIL



STANDARD INLET

State of Wisconsin Department of Admini Division of Facilities D

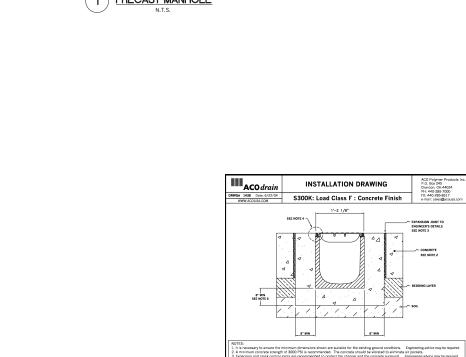
GRAEF

ww.graef-usa.com

UW Hospital Ramp Expansion
University of Wisconsin - Madiso

Graphic Scale DFD Number 12B1K Set Type Date Issued

09/13/2013 C907



3 TRENCH DRAIN
N.T.S.



POURED BASE

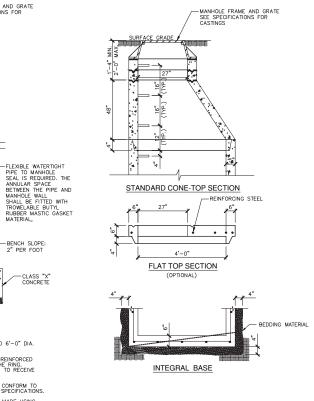
FLAT TOP SLAB MAY BE USED FOR $5^\prime - 0^{\prime\prime}$ AND $6^\prime - 0^{\prime\prime}$ DIA. MANHOLES.

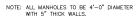
CONCRETE AND STEEL REINFORCEMENT SHALL CONFORM TO DESIGNATION C-478 REQUIREMENTS OF ASTM SPECIFICATIONS.

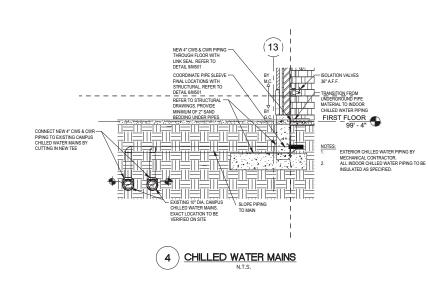
JOINTS SHALL BE WATERTIGHT AND SHALL BE MADE USING RUBBER GASKETS OR BUTYL RUBBER MASTIC MATERIAL.

AREA OF CIRCUMFERENTIAL STEEL = 0.12 SQ. INCH PER LINEAL FOOT. 3" BEDDING MATERIAL REQUIRED UNDER BASE. MANHOLES TO BE BACKFILLED WITH GRANULAR BACKFILL MATERIAL.

GENERAL NOTES







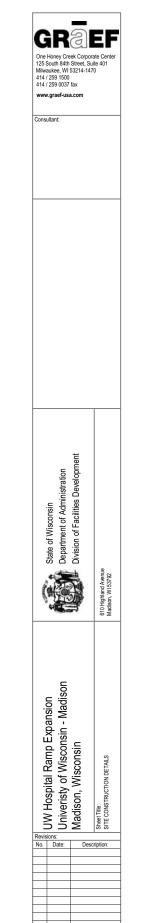
DOGHOUSE MANHOLE BASE

FOUNDATION SECTION VIEW

CONSTRUCT A FORMED INVERT FROM NEW SEWER LINE TO ALLOW FLOW TO THE EXISTING PIPE.

2 DOGHOUSE MANHOLE BASE N.T.S.

2. POUR SHELF TO THE LOWER HALF OF THE EXISTING PIPE. CUT AND REMOVE THE TOP HALF OF THE EXISTING PIPE TO WITHIN 6" OF THE MANHOLE WALLS AFTER THE INVERT AND SHELF HAVE BEEN FORMED.



Sheet C908