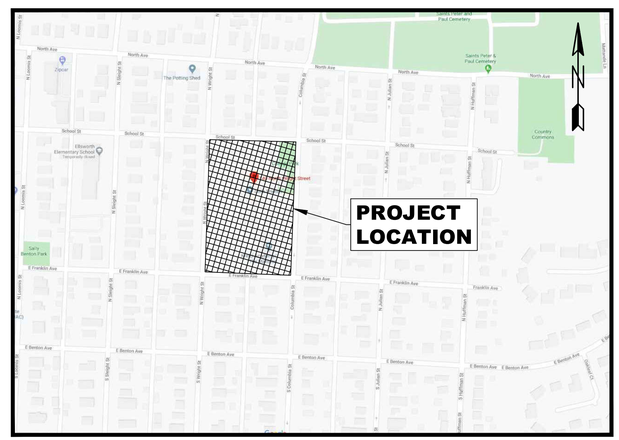
HERITAGE PLACE IN HISTORIC NAPERVILLE

140 N WRIGHT STREET
NAPERVILLE, IL 60540
JOB NO. W20052.00
JULY 15, 2020
PRELIMINARY ENGINEERING

INDEX TO DRAWINGS

PREPARED FOR:

RAM WEST CAPITAL LLC
IN PARTNERSHIP WITH DJK CUSTOM HOMES
532 S WEBSTER STREET
NAPERVILLE, IL 60540
PH:(630) 369-1953



LOCATION MAP

SITE BENCHMARKS

CITY OF NAPERVILLE SURVEY MONUMENT
STATION NUMBER: 1007
BERNSTEN 3D TOP SECURITY MONUMENT LOCATED AT THE SOUTH SIDE OF THE "T" INTERSECTION OF CHARLES STREET AND CHESHIRE LANE.

ELEV.: 733.69 (NAVD 88)

SITE BENCHMARK (BM) #1
SOUTHWEST BONNET BOLT ON A FIRE HYDRANT LOCATED AT THE NORTHWEST CORNER OF THE INTERSECTION OF SCHOOL STREET AND WRIGHT STREET.

ELEV: 720.30 (NAVD 88)

SITE BENCHMARK (BM) #2
SOUTHWEST BONNET BOLT ON A FIRE HYDRANT LOCATED AT THE NORTHWEST CORNER OF THE INTERSECTION OF SCHOOL STREET AND COLUMBIA STREET.

ELEV: 724.89 (NAVD 88)

SITE BENCHMARK (BM) #3
NORTHWEST BONNET BOLT ON A FIRE HYDRANT LOCATED AT THE NORTHWEST CORNER OF THE INTERSECTION OF COLUMBIA STREET AND FRANKLIN AVENUE.

ELEV: 724.37 (NAVD 88)

SITE BENCHMARK (BM) #4
SOUTHWEST BONNET BOLT ON A FIRE HYDRANT LOCATED AT THE NORTHWEST CORNER OF THE INTERSECTION OF FRANKLIN AVENUE AND WRIGHT STREET.

ELEV: 719.96 (NAVD 88)

City of Naperville Survey Monument

City of Naperville
Transportation, Engineering, and Development
(TED) Business Group
400 S. Eagle Street
Naperville, IL 60540
Phone: 630-305-7001

Station No.: 705 — **Date Established:** 07/12/1995

Order of Accuracy: **Horizontal** 1st **Vertical** 4th — **Date Last Checked:** 11/15/2005

Station Elevation: 734.64 (Ft) — **Naperville Field Checked:** 10/09/2008

Note: Any and all parties utilizing the vertical elevation listed above should always check at least one other monument.

Horizontal Datum: NAD83 (2007) Illinois State Plane Transverse Mercator, East Zone

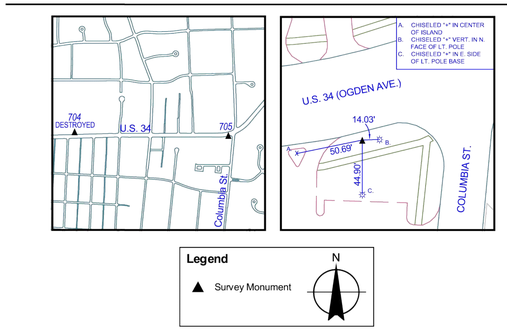
Vertical Datum: NAVD 1988 Adjustment

North: 1,864,573.65 (Ft) **East:** 1,037,790.39 (Ft)

Lattitude: 41° 47' 08.64678" (N) **Longitude:** 088° 08' 13.25503" (W)

NOTE : The coordinates shown are Illinois State Plane grid not ground.

Description:
Bernsten 3D Top Security Monument. Consisting of a 9/16" Dia. Stainless Steel Datum Point On Threaded 9/16" x 4' Long Rod Totaling (8') In Length With Greased Top Security Sleeve Enclosed In Sand and 6" PVC Pipe With BMAC 6 Aluminum Access Cover.



For further data information please consult the National Geodetic Survey: ***www.ngs.noaa.gov***

It's smart It's free It's the law

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Call before you dig 800.892.0123

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FAX (630) 393-2152

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PHONE (312) 474-7841
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Nicholas A. Varchetto
IL. P.E. NO. 062-068622
Expires November 30, 2021

ERA JOB NO.: W20052.00

PLAN SET REVISED: SEPTEMBER 8, 2020
PLAN SET REVISED: AUGUST 14, 2020
ORIGINAL SUBMITTAL: JULY 15, 2020

F:\Work\Projects\Heritage Place\CADD\W20052 Preliminary Engineering - Cover.dwg Updated by: Kevin Fox 9/8/2020

P.I.N.: 08-18-309-002 (PARCEL 1)
08-18-422-001 (PARCEL 2)

PLAT OF SURVEY

BLOCK 2 IN KROEHLER'S ADDITION TO NAPERVILLE, IN SECTION 18, TOWNSHIP 38 NORTH, RANGE 10, EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED MAY 14, 1906 AS DOCUMENT 87553, IN DUPAGE COUNTY, ILLINOIS.

ALSO DESCRIBED AS

PARCEL 1:
BLOCK 2 (EXCEPT THE SOUTH 260.10 FEET OF THE EAST 187.00 FEET AS MEASURED ON THE EAST AND SOUTH LINES) IN KROEHLER'S ADDITION TO NAPERVILLE, IN SECTION 18, TOWNSHIP 38 NORTH, RANGE 10, EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED MAY 14, 1906 AS DOCUMENT 87553, IN DUPAGE COUNTY, ILLINOIS.

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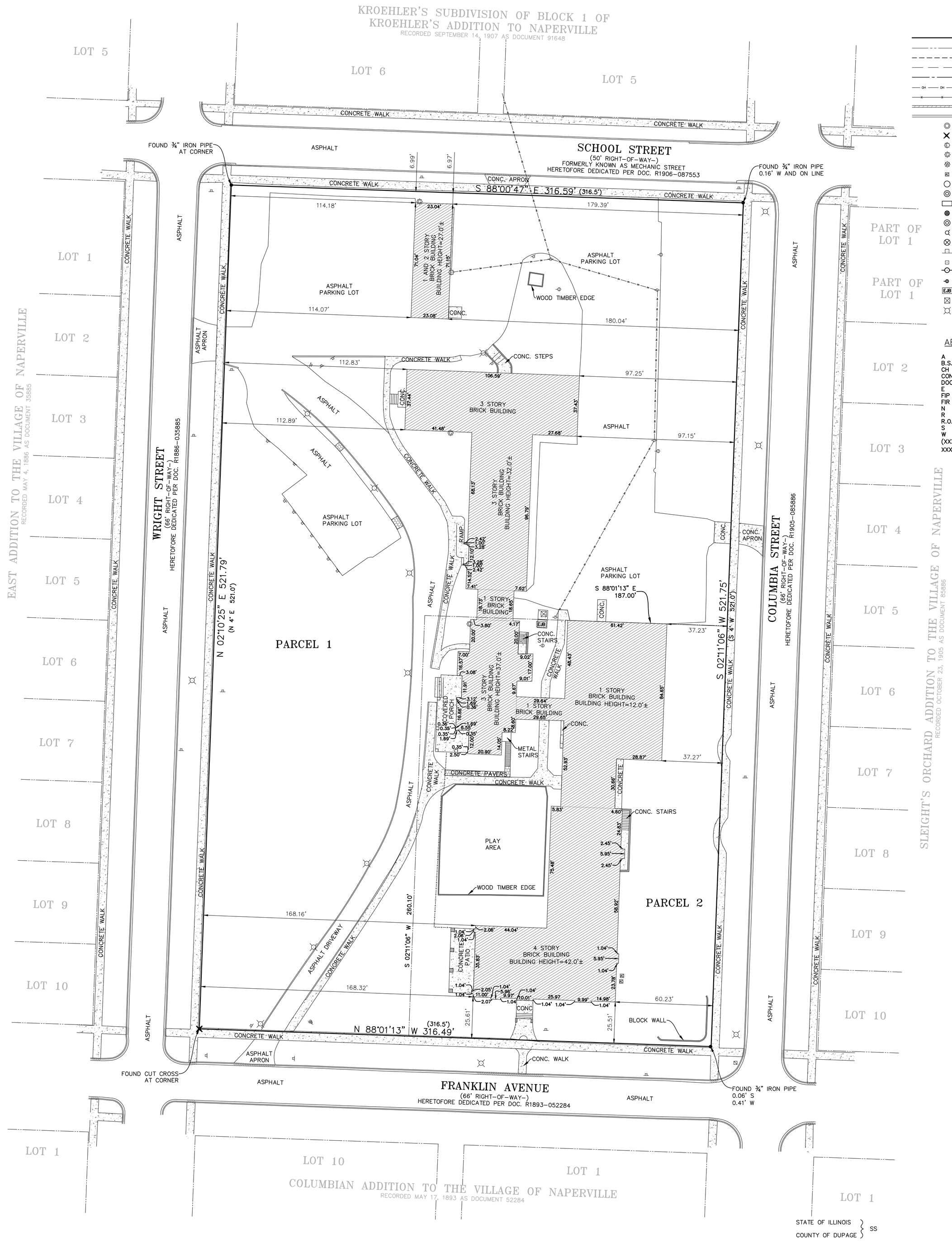

LEGEND

- = EX. PROPERTY LINE
- = EX. LOT LINE
- = EX. EASEMENT LINE
- = EX. BUILDING LINE
- = EX. CENTER LINE
- = EX. OVERHEAD WIRE
- = EX. CHAIN-LINK FENCE
- = EX. DEPRESSED CURB
- = EX. CONCRETE CURB & GUTTER
- = FOUND IRON PIPE OR ROD
- = FOUND CUT CROSS
- = EX. ELECTRICAL METER
- = EX. GAS METER
- = EX. WATER METER
- = EX. AIR CONDITIONING UNIT
- = EX. CATCH BASIN
- = EX. STORM MANHOLE
- = EX. INLET
- = EX. DRAIN
- = EX. SANITARY MANHOLE
- = EX. FIRE HYDRANT/AUX. VALVE
- = EX. VALVE BOX
- = EX. SIGN
- = EX. UTILITY PEDESTAL
- = EX. UTILITY POLE
- = EX. GUY WIRE
- EJB = EX. ELECTRIC JUNCTION BOX
- = EX. TRANSFORMER
- = EX. LIGHT

ABBREVIATIONS

A	ARC LENGTH
B.S.L.	BUILDING SETBACK LINE
CH	CHORD
CONC.	CONCRETE
DOC.	DOCUMENT
E	EAST
FIP	FOUND IRON PIPE
FIR	FOUND IRON ROD
N	NORTH
R	RADIUS
R.O.W.	RIGHT OF WAY
S	SOUTH
W	WEST
(XXX.XX)	RECORD INFORMATION
XXX.XX	MEASURED INFORMATION

GENERAL NOTES

1. THE BEARINGS SHOWN ON THIS PLAT ARE BASED ON THE ILLINOIS STATE PLANE COORDINATE SYSTEM – EAST ZONE (NAD 83).
2. CHECK LEGAL DESCRIPTION WITH DEED OR TITLE POLICY AND REPORT ANY DISCREPANCY IMMEDIATELY. BUILDING LINES AND EASEMENTS, IF ANY, SHOWN HEREON ARE AS SHOWN ON THE RECORDED SUBDIVISION OR AS INDICATED.
3. ALL AREAS LISTED IN THE AREA SUMMARY TABLE ARE MORE OR LESS.
4. ALL DISTANCES ARE SHOWN IN FEET AND DECIMAL PARTS THEREOF.
5. SUBSURFACE AND ENVIRONMENTAL CONDITIONS WERE NOT EXAMINED OR CONSIDERED AS A PART OF THIS SURVEY. NO STATEMENT IS MADE CONCERNING THE EXISTENCE OF UNDERGROUND OR OVERHEAD CONTAINERS OR FACILITIES WHICH MAY AFFECT THE USE OR DEVELOPMENT OF THIS TRACT.

AREA SUMMARY

PARCEL 1:	116,519 SQUARE FEET (2.675 ACRES±)
PARCEL 2:	48,639 SQUARE FEET (1.117 ACRES±)
TOTAL:	165,158 SQUARE FEET (3.792 ACRES±)

*DOCUMENT NUMBERS REVISED AUGUST 6, 2020 BY CNB

STATE OF ILLINOIS } SS
COUNTY OF DUPAGE }

I, TIMOTHY B. MARTINEK, AN ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-003782, HEREBY CERTIFY THAT I HAVE SURVEYED THE ABOVE PROPERTY AND THAT THE PLAT HERON DRAWN IS A CORRECT REPRESENTATION OF SAID SURVEY. THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

GIVEN UNDER MY HAND AND SEAL THIS 6TH DAY OF AUGUST, 2020.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-003782
LICENSE EXPIRES NOVEMBER 30, 2020

DESIGN FIRM PROFESSIONAL LICENSE NO. 184.001186
LICENSE EXPIRES APRIL 30, 2021

FIELD WORK COMPLETED MAY, 8, 2020

TIMOTHY B. MARTINEK 3782 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS WARRENVILLE, ILLINOIS

DRAWN BY:	CNB
CHECKED BY:	TBM
APPROVED BY:	TBM

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PREPARED FOR:
RAM WEST CAPITAL, LLC
IN PARTNERSHIP WITH
DJK CUSTOM HOMES

TITLE:
PLAT OF SURVEY
HERITAGE PLACE

SCALE:	1"=30'
DATE:	05-15-20
JOB NO:	W20052.A0
SHEET	1 OF 1

G:\PROJECTS\DJKCustomHomes\W20052.A0 140 N Wright St Naperville Sub POS+Topo\CADD\20052A0 PLAT OF SURVEY.dwg Updated by: cbacani 8/6/2020

EXISTING LEGEND

- = EX. PROPERTY LINE
- = EX. LOT LINE
- = EX. EASEMENT LINE
- = EX. BUILDING LINE
- = EX. CENTER LINE
- = EX. SANITARY LINE
- = EX. STORM LINE
- W = EX. WATER LINE
- OH = EX. OVERHEAD WIRE
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- = EX. CONCRETE CURB & GUTTER
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FIR	FOUND IRON ROD
INV.	INVERT
N	NORTH
PVC	POLYVINYL CHLORIDE
R	RADIUS
R.C.P	REINFORCED CONCRETE PIPE
R.O.W.	RIGHT OF WAY
S	SOUTH
T/PIPE	TOP OF PIPE
VCP	VITREOUS CLAY PIPE
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(XXX.XX)	RECORD INFORMATION
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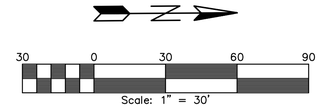

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ELEV: 724.37 (NAVD 88)

SITE BENCHMARK (BM) #4
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ELEV: 719.96 (NAVD 88)

PROFESSIONAL DESIGN FIRM NUMBER: 184.001186

REVISIONS:

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
8/14/20	KF	CITY COMMENTS			
9/8/20	KF	CITY COMMENTS			

DRAWN BY: KF
CHECKED BY: NV
APPROVED BY: NV

ENGINEERING RESOURCE ASSOCIATES
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RAM WEST CAPITAL LLC
IN PARTNERSHIP WITH
DJK CUSTOM HOMES

TITLE: EXISTING CONDITIONS PLAN
HERITAGE PLACE
NAPERVILLE, ILLINOIS

SCALE: 1"=30'
DATE: 07/15/2020
JOB NO: W20052
SHEET 3 OF 8

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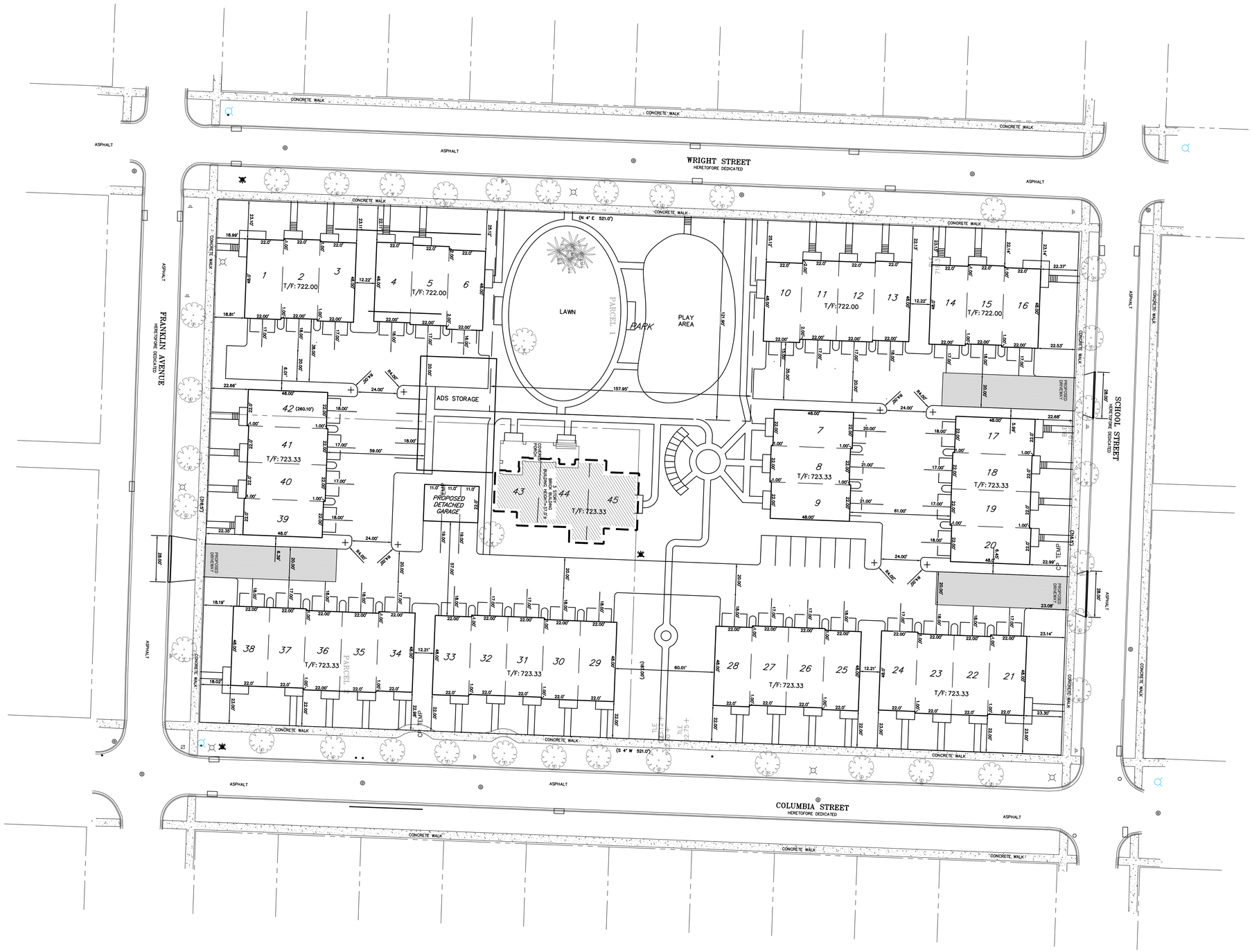

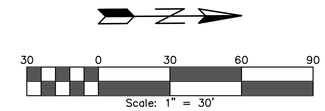

NOTES:

1. ALL INTERNAL SIDEWALKS ARE 4' WIDE.
2. ALL FRONT PORCH PATIOS ARE 11' X 5'
3. ALL D-WAY ISLANDS ARE 4' WIDE
4. SEE PRELIMINARY ENGINEERING PLAN FOR ALL UNDERGROUND UTILITY INFORMATION
5. THERE WILL BE NO SEPARATE STAND ALONE REFUSE AREAS. EACH UNIT WILL HOUSE THE INDIVIDUAL REFUSE AND RECYCLE BINS IN THE GARAGES.

ZONING DATA TABLE

	REQUIRED	PROPOSED
ZONING	R2	R2
FRONT YARD SETBACK	25'	22'
INTERIOR SIDEYARD	6'	6'
CORNER SIDEYARD	15'	18'
REAR YARD	25'	25'
MIN LOT WIDTH	50'	50'
MIN LOT AREA	4,000 S.F.	3,515 S.F.
MAX. HEIGHT	3 STORIES (40')	3 STORIES (40')

PROJECT AREA: 165,223.34 S.F. (3.793 ACRES)

STORMWATER DATA TABLE

PROPOSED CONDITIONS:

BUILDINGS:	47,893 S.F.
PAVED AREAS:	35,664 S.F.
DRIVEWAY: (PERMEABLE PAVERS, NOT INCLUDED)	4,754 S.F.
PORCHES:	3,460 S.F.
WALKS:	6,497 S.F.
GAZEBO:	625 S.F.
TOTAL PROPOSED IMPERVIOUS AREA:	94,139 S.F.

EXISTING CONDITIONS:

BUILDING:	26,366 S.F.
CONCRETE:	4.341 S.F.
PARKING LOT:	45,274 S.F.
PORCH	847 S.F.
PATIO:	601 S.F.
TOTAL EXISTING IMPERVIOUS AREA:	77,429 S.F.

TO REMAIN:

PORCH:	708 S.F.
MANSION:	2,808 S.F.

IMPERVIOUS AREA CONSTRUCTED AFTER 1992: 4,561 S.F.

CREDIT FOR EXISTING CONDITIONS TO BE REMOVED: 69,352 S.F.

NET NEW IMPERVIOUS AREA: 94,139 S.F.–69,352 S.F.=24,787 S.F.

SINCE 24,787 S.F.< 25,000 S.F., NO STORMWATER DETENTION IS REQUIRED.

VCBMP REQUIREMENTS:

NEW IMPERVIOUS CONSTRUCTED AFTER APRIL 23, 2013 = 94,139 S.F.
VOL. REQ. = 94,139 S.F. x $\frac{1.25\text{in}}{12\text{ in./FT.}}$ = 9,806 C.F.

ADDITIONAL 2,160 CF OF STORAGE REQUIRED TO COMPENSATE EXISTING DETENTION ON SITE; WOODS AND ASSOCIATES 1984

(ASSUMING 36% VOID RATIO FOR STONE)

BMP VOLUME PROVIDED:(ADS STORAGE)
CHAMBERS PROVIDED: 56
END CAPS PROVIDED: 14
STONE: 12" ABOVE, 9" BELOW, 6" SPACING, 6" PERIMETER
APPROXIMATE VOLUME= 12,028 C.F.
APPROXIMATE DIMENSIONS= 69' LONG, 46' WIDE, 5.5' HEIGHT

PROFESSIONAL DESIGN FIRM NUMBER: 184.001186

REVISIONS:

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TITLE:

GEOMETRY PLAN
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SCALE: 1"=30'
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SHEET 4 OF 8

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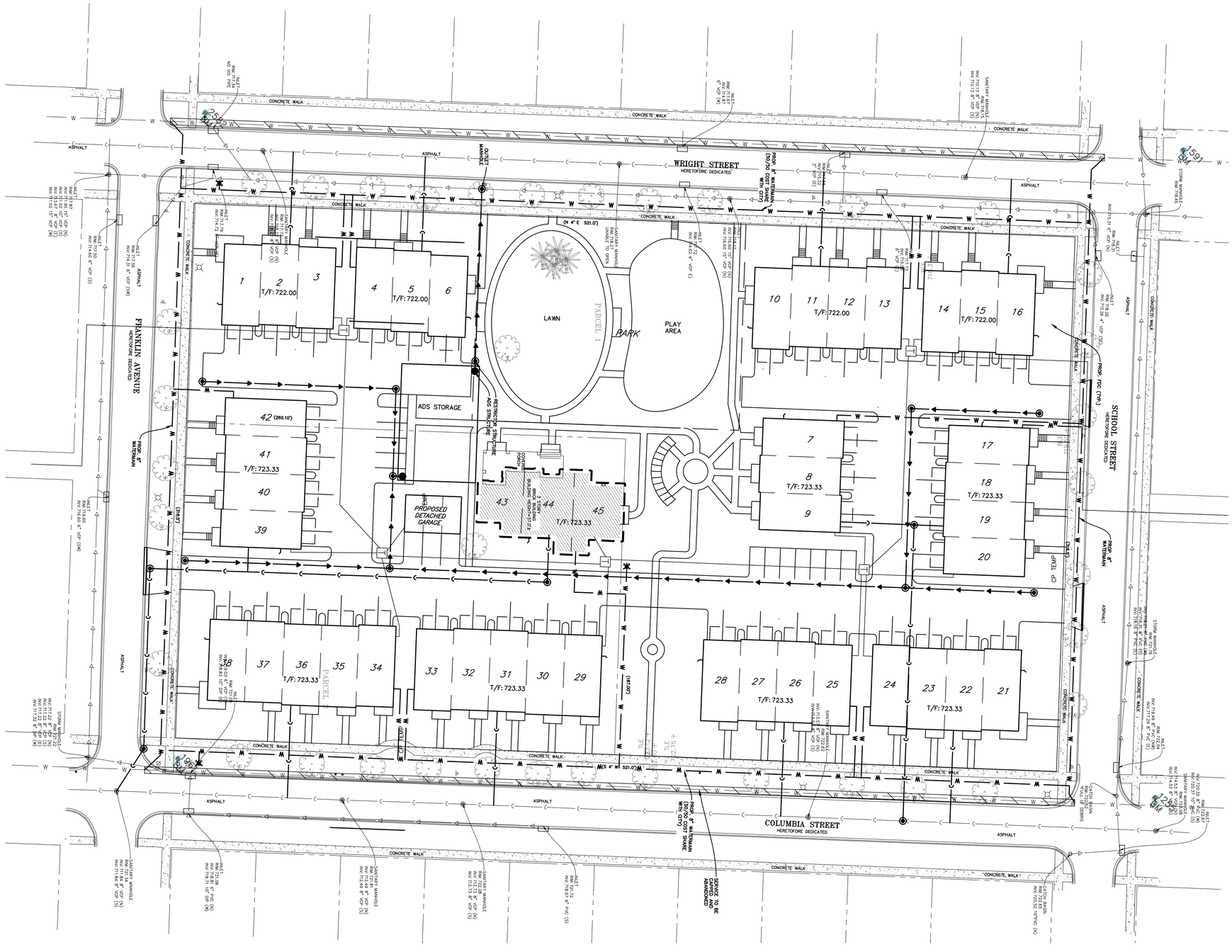

Scale: 1" = 30'

NOTES:

1. ELECTRICAL AND INTERNAL LIGHTING TO BE DESIGNED BY OTHERS. PARKWAY LIGHT POLES TO REMIAN.
2. WATERMAIN WITHIN PARKWAY TO BE DIRECTIONALLY BORED TO LIMIT DISTURBANCE OF EXISTING TREES.
3. PERIMETER SIDEWALK TO REMAIN. DISTURBED AREAS WILL BE REPLACED IN KIND.
4. PROPOSED WATERMAIN CONNECTIONS TO EXISTING MAIN SHALL REQUIRE SHUTDOWN. SERVICE TO EXISTING HOUSE WILL BE PAID FOR AND REPLACED BY THE CITY. COORDINATION WITH THE CITY AND HOMEOWNERS WILL BE REQUIRED.
5. DRIVEWAY ISLANDS WILL BE LANDSCAPED AND FLUSH WITH ADJACENT GROUND. NO CURB AND GUTTER.

PROPOSED LEGEND

= TO BE ABANDONED
= PROPOSED STORM SEWER (TO BE DESIGNED IN FINAL)
= PROPOSED WATERMAIN (MAINS TO BE 8" – C900) (SERVICES TO BE 2.5" – TYPE K COPPER)
= PROPOSED SANITARY SEWER (SERVICES 6" PVC(SDR26))
= PROPOSED CATCH BASIN/MANHOLE

EXISTING LEGEND

= EX. PROPERTY LINE
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ABBREVIATIONS

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DOC.	DOCUMENT
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FIP	FOUND IRON PIPE
FIR	FOUND IRON ROD
INV.	INVERT
N	NORTH
PVC	POLYVINYL CHLORIDE
R	RADIUS
R.C.P	REINFORCED CONCRETE PIPE
R.O.W.	RIGHT OF WAY
S	SOUTH
T/PIPE	TOP OF PIPE
VCP	VITREOUS CLAY PIPE
W	WEST
(XXX.XX)	RECORD INFORMATION
XXX.XX	MEASURED INFORMATION

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RAM WEST CAPITAL LLC
IN PARTNERSHIP WITH
DJK CUSTOM HOMES

TITLE:
UTILITY PLAN
HERITAGE PLACE
NAPERVILLE, ILLINOIS

SCALE: 1"=30'
DATE: 07/15/2020
JOB NO: W20052
SHEET 5 OF 8

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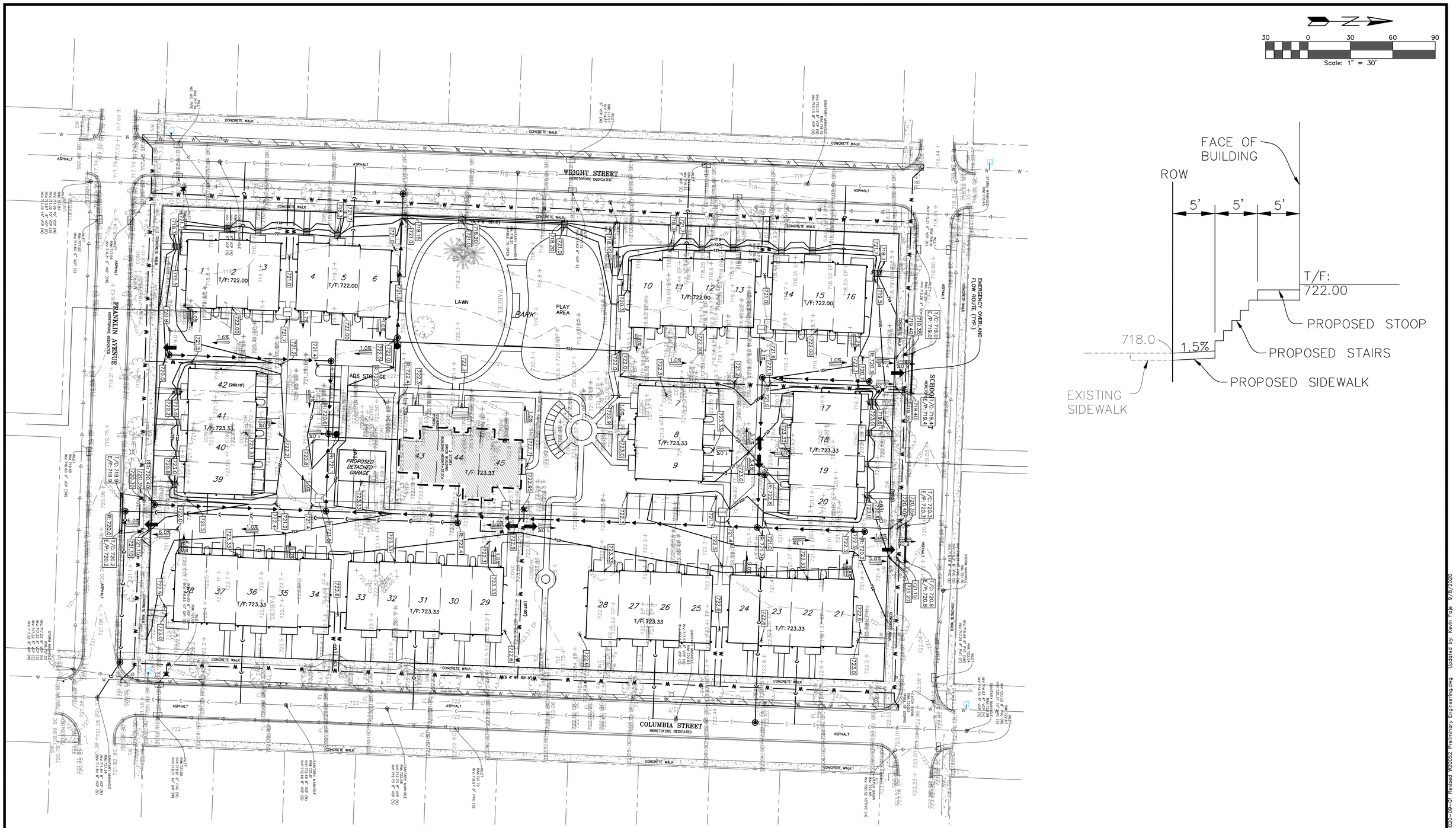

PROFESSIONAL DESIGN FIRM NUMBER: 184.001186

REVISIONS:					
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HERITAGE PLACE
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PROJECT INFORMATION	
ENGINEERED PRODUCT MANAGER	
ADS SALES REP	
PROJECT NO.	

ADVANCED DRAINAGE SYSTEMS, INC.

HERITAGE PLACE

NAPERVILLE, IL

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MC-3500 STORMTECH CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH MC-3500.
2. CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
3. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-18a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION SS.
4. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
5. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
6. CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
7. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 500 LBS/IN/IN. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
8. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
   - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
   - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
   - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF MC-3500 CHAMBER SYSTEM

1. STORMTECH MC-3500 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
   - STONESHOOTER LOCATED OFF THE CHAMBER BED.
   - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
   - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
6. MAINTAIN MINIMUM - 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
7. INLET AND OUTLET MANIFOLDS MUST BE INSERTED A MINIMUM OF 12" (300 mm) INTO CHAMBER END CAPS.
8. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE MEETING THE AASHTO M43 DESIGNATION OF #3 OR #4.
9. STONE MUST BE PLACED ON THE TOP CENTER OF THE CHAMBER TO ANCHOR THE CHAMBERS IN PLACE AND PRESERVE ROW SPACING.
10. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
11. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

1. STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
2. THE USE OF EQUIPMENT OVER MC-3500 CHAMBERS IS LIMITED:
   - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
   - NO RUBBER TIRED LOADER, DUMP TRUCK, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
   - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

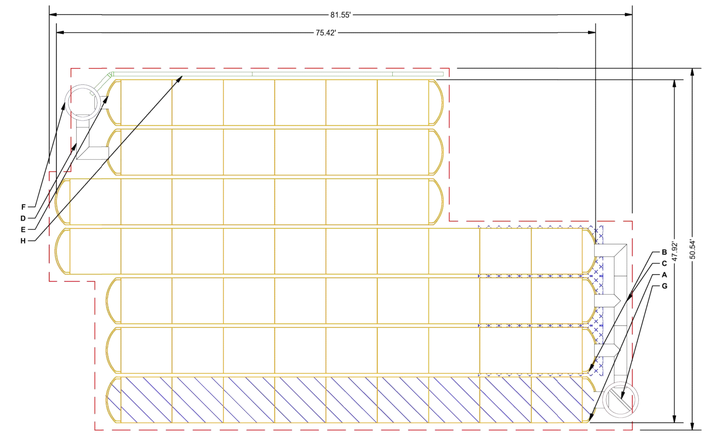
USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY USING THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

PROPOSED LAYOUT	
56	STORMTECH MC-3500 CHAMBERS
14	STORMTECH MC-3500 END CAPS
24	STONE ABOVE (in)
9	STONE BELOW (in)
36	STONE VOID
12028	INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED) (COVER STONE INCLUDED) (BASE STONE INCLUDED)
3399	SYSTEM AREA (SF)
264.2	SYSTEM PERIMETER (ft)

PROPOSED ELEVATIONS	
MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED):	726.50
MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC):	721.00
TOP OF STONE:	720.50
MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC):	720.00
MINIMUM ALLOWABLE GRADE (TOP OF RIGID CONCRETE PAVEMENT):	720.00
MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT):	720.00
TOP OF MC-3500 CHAMBER:	718.50
24" ISOLATOR ROW INVERT:	714.92
18" x 18" BOTTOM MANIFOLD INVERT:	714.90
18" x 18" BOTTOM MANIFOLD INVERT:	714.90
18" BOTTOM CONNECTION INVERT:	714.90
BOTTOM OF MC-3500 CHAMBER:	714.75
UNDERDRAIN INVERT:	714.00
BOTTOM OF STONE:	714.00

ITEM ON LAYOUT	PART TYPE	DESCRIPTION	INVERT* (*INVERT ABOVE BASE OF CHAMBER)	MAX FLOW
A	PREFABRICATED END CAP	24" BOTTOM CORED END CAP/TYP OF ALL 24" BOTTOM CONNECTIONS AND ISOLATOR ROWS	2.06"	
B	PREFABRICATED END CAP	18" BOTTOM CORED END CAP/TYP OF ALL 18" BOTTOM CONNECTIONS	1.78"	
C	MANIFOLD	18" x 18" BOTTOM MANIFOLD, ADS N-12	1.77"	
D	MANIFOLD	18" x 18" BOTTOM MANIFOLD, ADS N-12	1.77"	
E	PIPE CONNECTION	18" BOTTOM CONNECTION	1.77"	
F	CONCRETE STRUCTURE	OCS (DESIGN BY ENGINEER / PROVIDED BY OTHERS)		8.0 CFS OUT
G	CONCRETE STRUCTURE W/WEIR	(DESIGN BY ENGINEER / PROVIDED BY OTHERS)		16.5 CFS IN
H	UNDERDRAIN	6" ADS N-12 DUAL WALL PERFORATED HDPE UNDERDRAIN		



ISOLATOR ROW (SEE DETAIL)

PLACE MINIMUM 17.50' OF ADS GEOSYNTHETICS 315WTM WOVEN GEOTEXTILE OVER BEDDING STONE AND UNDERNEATH CHAMBER FEET FOR SCOUR PROTECTION AT ALL CHAMBER INLET ROWS

BED LIMITS

NOTES

- MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECH NOTE #6.32 FOR MANIFOLD SIZING GUIDANCE.
- DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
- THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.
- THIS CHAMBER SYSTEM WAS DESIGNED WITHOUT SITE-SPECIFIC INFORMATION ON SOIL CONDITIONS OR BEARING CAPACITY. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE SOIL AND PROVIDING THE BEARING CAPACITY OF THE INSITU SOILS. THE BASE STONE DEPTH MAY BE INCREASED OR DECREASED ONCE THIS INFORMATION IS PROVIDED.
- **NOT FOR CONSTRUCTION:** THIS LAYOUT IS FOR DIMENSIONAL PURPOSES ONLY TO PROVE CONCEPT & THE REQUIRED STORAGE VOLUME CAN BE ACHIEVED ON SITE.

HERITAGE PLACE
NAPERVILLE, IL
DATE: DRAWN: MV
PROJECT #: CHECKED: N/A

REV	DRW	CHK	DESCRIPTION

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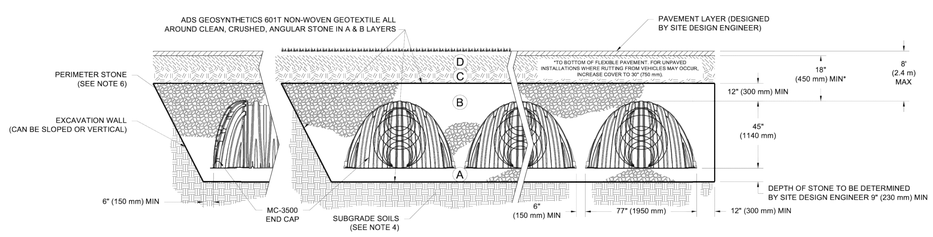
SHEET 2 OF 5

ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS

	MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	**FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145[1] A-1, A-2-4, A-3 OR AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 24" (600 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[1] 3, 4	NO COMPACTION REQUIRED.
A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[1] 3, 4	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3]

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.



NOTES:

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION SS.
2. MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 500 LBS/IN/IN. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

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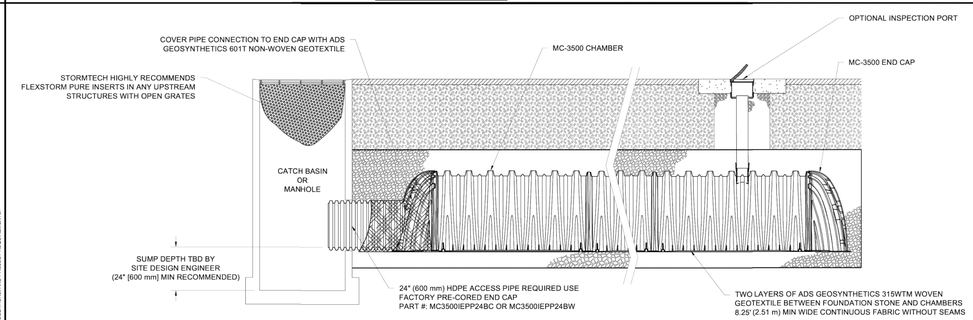
SHEET 3 OF 5



MC-3500 ISOLATOR ROW DETAIL
NTS

INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
  - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
  - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
  - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - A.4. LOWER A CAMERA INTO ISOLATOR ROW FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR ROWS
  - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW
  - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW THROUGH OUTLET PIPE
    - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
    - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

STEP 2) CLEAN OUT ISOLATOR ROW USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

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SHEET 4 OF 5

PROFESSIONAL DESIGN FIRM NUMBER: 184.001186

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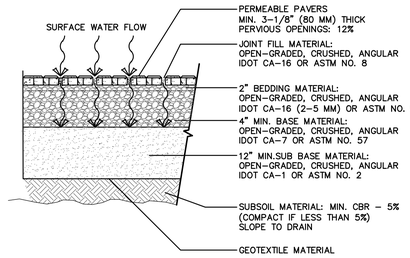


PERMEABLE PAVER DETAIL

NOT TO SCALE

SP-22. PERMEABLE PAVER PAVEMENT, FULL DEPTH

DESCRIPTION
PERMEABLE PAVER PAVEMENT shall consist of all materials, tools, equipment, cutting, cleanup and labor necessary to install the geo-technical fabric (needle-punched, non-woven), granular sub-base (CA-1), aggregate base course (CA-7), setting course (CA-16), permeable pavers, and crevice infill for permeable pavers as shown and called out for in plans and specifications.

RELATED SECTIONS
This work shall also conform to the following sections of the bid specifications proposal book:
1) Section 202 IDOT Standards and Specifications
2) Section 210 IDOT Standards and Specifications
3) Section 301 IDOT Standards and Specifications
4) Section 351 IDOT Standards and Specifications
5) Section 606 IDOT Standards and Specifications

PRODUCT HANDLING
1) Use all means necessary to protect materials before, during, after delivery to the job site, and to protect the installed work and materials of all other trades.
2) Deliver the materials to the job site and store in a safe area, out of the way of traffic, and shore up off the ground surface.
3) In the event of damage, immediately make all repairs and replacements necessary to the approval of the ENGINEER or OWNER and at no additional cost to the OWNER.

MATERIALS
The minimum material and physical properties set forth in ASTM -936, Standard Specification for Interlocking Concrete Paving Units. This includes the following requirements:

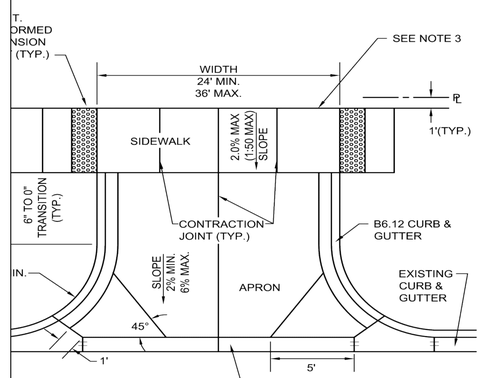
1) Colors & Finishes: Parking lot paver color shall be approved by the OWNER prior to installation, see Landscape Plans for detailed specifications.
2) Patterns: Field pattern shall be standard as provided by manufacturer with one row of soldier course pavers surrounding entire permeable paver area.
3) Dimensions: Field pavers shall measure approximately 10.25" x 10.25" x 3.25".
4) Pavers shall meet ADA compliance with no more than ¼" gap.
5) Average compressive strength 8,000 psi (55 MPa) with no individual unit under 7,000 psi (50 MPa).
6) Average absorption of 5% with no unit greater than 7% when tested according to ASTM C-140.
7) Resistance to 50 freeze-thaw cycles, when tested according to ASTM C-67, with no breakage greater than 1.0% loss in dry weight of any individual unit. This test method shall be conducted not more than 12 months prior to delivery of units.
8) Surface course crevice fill shall be CA-16 or granite chips.
9) Setting course shall be 2" of CA-16.
10) 4" Compacted Aggregate Base Course (CA-7) under setting bed.
11) 12" Compacted Granular Sub-base Material (CA-1) under compacted aggregate base course.
12) Geo-technical Fabric (needle-punched, non-woven) for Ground Stabilization under compacted granular sub-base.

DELIVERIES
Stockpile all materials sufficiently in advance of need to ensure their availability in a timely manner for this work.

CONSTRUCTION REQUIREMENTS
Install per manufacturer's recommendations and as detailed in the plans and specifications. Remove all debris and unsuitable materials from the jobsite upon completion. Clean and sweep paving surfaces when complete. Refill crevices as necessary after settlement period per manufacturer's recommendations.

SUBMITTALS
The permeable pavers must be approved by the Project Representative prior to installation. Submit samples of the permeable pavers, literature, and build a minimum 3'x3' mockup that includes all required colors, finishes, patterns and infill material. In addition CONTRACTOR must provide 2 CY of extra of crevice infill upon completion of the project for the OWNER to utilize for future needs. Delivery and stockpiling of the extra material to be coordinated with the Project Representative before final completion can be issued.

BASIS OF PAYMENT
This work shall be measured and paid for separately at the contract unit price per square foot of PERMEABLE PAVER PAVEMENT, FULL DEPTH, which shall be payment in full for all materials, equipment, tools and labor necessary to install the subbase course, base course, setting bed (CA-16), permeable pavers, crevice infill, perform necessary cuts and cleanup, and blend the new permeable pavement with the existing permeable pavement.

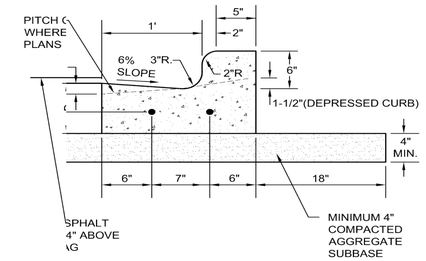


:
AGGREGATE SUB BASE SHALL BE MECHANICALLY COMPACTED.
SWALK SHALL CONTINUE THROUGH DRIVEWAYS.
SWALK THICKNESS ACROSS DRIVEWAYS SHALL BE A MINIMUM OF 8" PCC ON GGREGATE SUB BASE.
ECTABLE WARNINGS SHALL ONLY BE INSTALLED AT DRIVEWAYS WITH MANENT TRAFFIC CONTROL DEVICES.
SWALK CONSTRUCTION SHALL FOLLOW APPLICABLE IDOT STANDARDS.
SWALKS SHALL FOLLOW CURRENT ADA GUIDELINES.

City of Naperville
STANDARD DETAIL

TYPICAL COMMERCIAL DRIVEWAY DETAIL

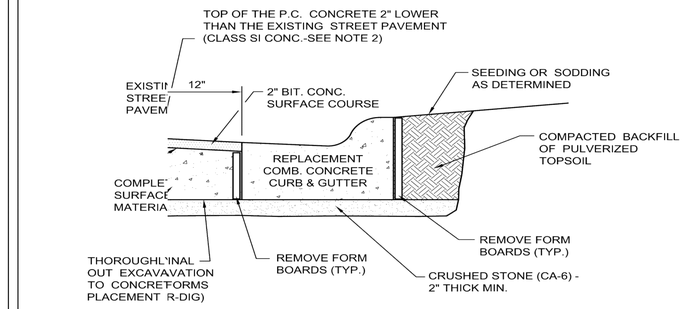
REVISED: 01/01/2013 | SHEET 1 OF 1 | PAVEMENT 5 | **590.05**



1. ED BITUMINOUS EXPANSION JOINT WITH TWO (2) NUMBER 6 OTH DOWEL BARS (3/4" DIA. X 18") WITH GREASE CAPS SHALL ERY 150', 10' EITHER SIDE OF DRAINAGE STRUCTURES, P.C.'S, S AND BACK OF CUL-DE-SACS. WHEN EXPANSION JOINTS ICTED ADJACENT TO EXISTING CURB & GUTTER THE EXISTING E DRILLED AND TWO (2) NUMBER 6 COATED SMOOTH DOWEL 8") GROUTED IN PLACE. GREASE CAPS SHALL BE PLACED ON HE NEW CURB AND GUTTER SHALL HAVE A PINCHED STOP OVIDE A MINIMUM 1" EXPANSION.
2. ROL JOINTS OR SAWCUTS SHALL BE MADE EVERY 15'.
3. LL BE MADE WITHIN TWENTY-FOUR (24) HOURS AND SEALED PPROVED JOINT SEALANT. JOINTS SHALL BE CLEAN AND DRY LICATION OF SEALANT.
4. GUTTER CONSTRUCTED OVER UTILITY TRENCHES, TWO (2) D REINFORCING BARS (NO. 4) SHALL BE PLACED IN THE CURB CENTERED OVER THE TRENCH.

B6.12 BARRIER CURB & GUTTER

REVISED: 01/01/2013 | SHEET 1 OF 1 | PAVEMENT 20 | **590.20**



AIR OF PAVEMENTS ADJACENT TO THE REPLACEMENT CONCRETE S INCLUDED IN THE COST OF THE NEW CURB AND GUTTER.

: SHALL BE POURED SEPARATELY FROM THE CURB ONCE THE FORM REMOVED.

City of Nap
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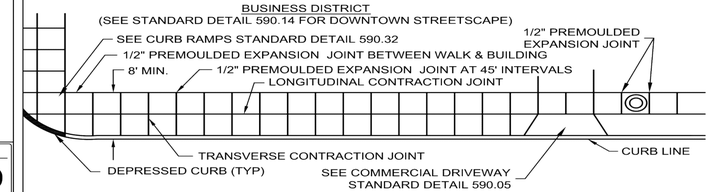
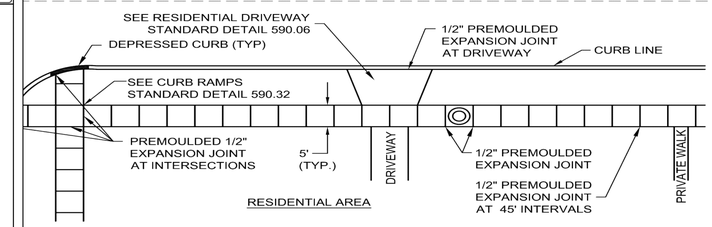
5/2015

CURB REPLACEMENT

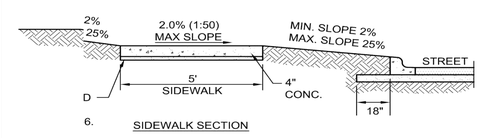
SHEET 1 OF 1 | PAVEMENT 24 | **590.24**



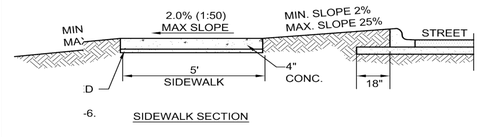


SIDEWALK CONSTRUCTION

REVISED: 01/01/2013 | SHEET 1 OF 1 | PAVEMENT 31 | **590.31**



6. SIDEWALK SECTION

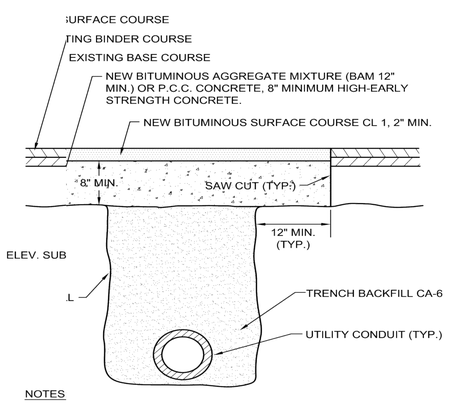


-6. SIDEWALK SECTION

NOTES:
1. CONCRIDOT CLASS SI.
2. MINIMU-ICKNESS SHALL BE 4".
3. SIDEWA ACROSS DRIVEWAYS SHALL BE AT A MINIMUM 6" FOR RESIDEAYS AND 8" FOR COMMERCIAL DRIVEWAYS.
4. MAXIMUAL SLOPE SHALL NOT EXCEED 5% (20:1). FOR ANY SLOPE IN EXCESEQUIREMENTS OF THE ILLINOIS ACCESSIBILITY CODE (LATEST EDITIONT.
5. MINIMUE SLOPE SHALL BE 1.0% (1:100). MAXIMUM TRANSVERSE SLOPE SHALL
6. A MINIGATE SUBBASE (CA-6) SHALL BE PROVIDED. (4" THROUGH COMMEAYS).
7. AGGREE SHALL BE MECHANICALLY COMPACTED.
8. ALL SID. BE PROMPTLY BACKFILLED AND PROTECTED FROM DAMAGE.
9. SIDEWATION SHALL FOLLOW APPLICABLE IDOT STANDARDS.
10. SIDEWALLOW CURRENT ADA GUIDELINES.

SIDEWALK

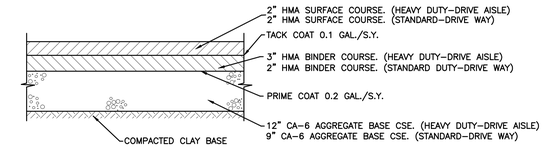
REVISED: 01/01/2013 | SHEET 1 OF 1 | PAVEMENT 30 | **590.30**



NOTES
1. THE TRE BACKFILLED WITH AGGREGATE (CA-6) AND COMPACTED TO 95% OF THROCTOR DENSITY. TRENCH SPOILS OR EXCAVATED MATERIAL SHALL BE DISE CONTRACTOR, AT HIS EXPENSE, AT DUMP SITES OR IN A SUITABLE FASHICD BY THE CITY ENGINEER.
2. PRIOR P.C.C. CONCRETE, THE EXPOSED EDGES OF ALL EXISTING PAVEMSAW CUT TO PROVIDE A SMOOTH, CLEAN EDGE, FREE OF LOOSE MATER
3. EXCAVBE PROTECTED BY BARRICADES WITH FLASHING LIGHTS. A 1" STEEL PLATE VIDED AND MAINTAINED BY THE CONTRACTOR AT LOCATIONS WHERES ARE LOCATED IN TRAVEL LANES UNTIL THE SURFACE RESTOIPLETE. THE PLATE SHALL BE PROTECTED FROM SLIDING AND PROVIDINOUS RAMPS.
4. TRENCACTED IN CONFORMANCE WITH ARTICLE 603.08(METHOD 3) OF THE IDOT SIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

UTILITY TRENCH PAVING SECTION (FLEXIBLE PAVEMENTS)

REVISED: 01/01/2013 | SHEET 1 OF 1 | PAVEMENT 13 | **590.13**



BITUMINOUS PAVEMENT DETAIL
NOT TO SCALE

NOTE: THE PAVEMENT DESIGN IS A RECOMMENDATION AND SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE SERVICES OF A SOILS ENGINEER TO CONFIRM PROPER SUBGRADE AND PAVEMENT DESIGN BASED ON SITE SPECIFIC CONDITIONS FOR PARKING LOT, CURBS, SIDEWALKS, BUILDING, ETC.

PROFESSIONAL DESIGN FIRM NUMBER: 184.001186

REVISIONS:					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
8/14/20	KF	CITY COMMENTS			
9/8/20	KF	CITY COMMENTS			

DRAWN BY: KF
CHECKED BY: NV
APPROVED BY: NV

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RAM WEST CAPITAL LLC
IN PARTNERSHIP WITH
DJK CUSTOM HOMES

TITLE:
DETAILS
HERITAGE PLACE
NAPERVILLE, ILLINOIS

SCALE: N.T.S.
DATE: 07/15/2020
JOB NO: W20052
SHEET 8 OF 8

F:\Work\Projects\Heritage Place\CADD\2020-09-01 Revised W20052 Preliminary Engineering.dwg Updated by: Kevin Fox 9/8/2020