**FOR** 

# MARKET MEADOWS SHOPPING CENTER

**ADOWS** 

shorewood DEVELOPMENT GROUP

**PROPOSED** 

**~~**►

**LEGEND** 

**DESCRIPTION** 

STORM SEWER WATER MAIN (WITH SIZE) SANITARY SEWER FORCE MAIN UNDERGROUND ELECTRIC OVERHEAD ELECTRIC UNDERGROUND TELEPHONE UNDERGROUND GAS

HIGH/NORMAL WATER LEVEL SILT FENCE RIGHT-OF-WAY CURB DEPRESSED CURB FOR RAMP/DRIVEWAY REVERSE PITCH CURB FENCE LINE GUARD RAIL SANITARY MANHOLE

> STORM MANHOLE STORM INLET STORM CATCH BASI

> > FIRE HYDRANT

GATE VALVE AND VAULT

STREET LIGHT

STREET LIGHT WITH MAST **TRANSFORMER** 

UTILITY POLE

SIGN

DRAINAGE DIRECTION

OVERFLOW ROUTE

SPOT GRADE

FINISHED FLOOR

TOP OF FOUNDATION

GROUND

EDGE OF PAVEMENT

BACK/TOP OF CURB

TOP OF SIDEWALK

TOP OF RETAINING WALL

BOTTOM OF RETAINING WALL RIM FOR STRUCTURES

RISER FOR SANITARY SERVICE

INVERT FOR SEWERS

**EXISTING** 

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<sub>1</sub>701.30

1227-1309 S. NAPER BOULEVARD NAPERVILLE, ILLINOIS SHOREWOOD DEVELOPMENT GROUP LLC

## **BENCHMARK AND LOCATIONS:**

## REFERENCE BENOTIMADIA #1. 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 6ALUMINUM ACCESS COVER. CITY OF NAPERVILLE SURVEY MONUMENT #526 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 SECURITYSLEEVE ENCLOSED IN SAND AND 6" PVC PIPE WITH BMAC 6ALUMINUM DATUM: NAVD88 ELEVATION = 681.48SITE BENCHMARKS:

ELEVATION = 707.44

SITE BENCHMARK #1:

SITE BENCHMARK #2: SOUTH BONNET BOLT ON FIRE HYDRANT NEAR THE SOUTHWEST CORNER OF THE INTERSECTION OF MARKET STREET AND NAPER

SOUTHWEST BONNET BOLT ON FIRE HYDRANT NEAR THE NORTHWEST CORNER OF THE INTERSECTION OF NAPER BOULEVARD AND 75TH

ELEVATION = 709.77

SITE BENCHMARK #3:

SOUTH EAST BONNET BOLT ON FIRE HYDRANT NORTH SIDE OF MARKET STREET NEAR NORTHWEST CORNER OF SITE. ELEVATION = 705.58

REVISIONS				
NO.	DESCRIPTION		DATE	
1	PERMIT SET		9/8/20	
2	CITY REVIEW		10/16/20	
3	CITY REVIEW		11/13/20	
4	CITY REVIEW		12/8/20	

## DRAWING INDEX

TITLE

SHEET

C1	COVER SHEET
C2	OVERALL SITE PLAN
C3	EXISTING CONDITIONS AND DEMOLITION PLAN
C4	DIMENSIONAL CONTROL AND PAVING PLAN
C5	GRADING PLAN
C6	UTILITY PLAN
C7	EROSION CONTROL PLAN
C8.0-C8.1	STORMWATER POLLUTION PREVENTION PLAN
C9.0 - C9.3	DETAILS
C10	GENERAL NOTES AND SPECIFICATIONS
<u>2</u> (C11)	CITY OF NAPERVILLE GENERAL NOTES AND SPECIFICATIONS
AT1	FIRETRUCK AUTOTURN EXHIBIT
L1.0-TP1.0	LANDSCAPE AND TREE REMOVAL/PRESERVATION PLANS (JARRARD DESIGN)

## CONTACTS

<u>CIVIL ENGINEER</u>	OWNER/DEVELOPER
JACOB & HEFNER ASSOCIATES, INC	SHOREWOOD DEVELOPME
1333 BUTTERFIELD ROAD, SUITE 300	790 ESTATE DRIVE, SUIT
DOWNERS GROVE, IL 60515	DEERFIELD, IL 60015
CONTACT: RYAN BLOCKER, P.E.	CONTACT: DAN ANGSPATT
RBLOCKER@JACOBANDHEFNER.COM	DAN@SHOREWOODDEVELO
(630) 652-4630	(224) 532-2403

**SURVEYOR** COMPASS SURVEYING LTD 2631 GINGER WOODS PARKWAY, SUITE 100 AURORA, IL 60502 CONTACT: DANIEL WALTER, P.L.S. DWALTER@CLSURVEYING.COM (630) 820-1000

MENT GROUP IITE 200 TT, P.E. \_OPMENTGROUP.COM

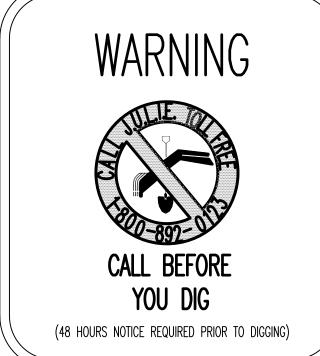
<u>ARCHITECT</u> INTERPLAN LLC ONE SOUTH 280 SUMMIT AVE., SUITE [ OAKBROOK TERRACE, IL 60181 CONTACT: BEN PASZKIET BPASZKIET@INTERPLANLLC.COM (630) 932-2336

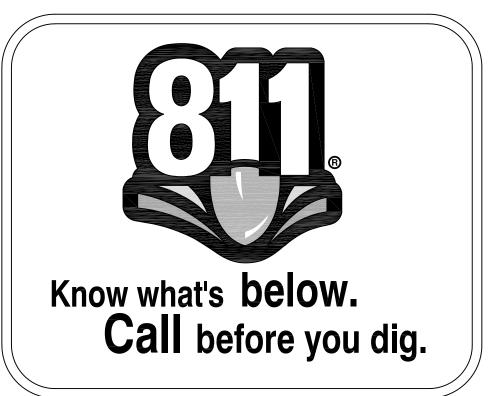
GEOTECHNICAL ENGINEER LANDSCAPE ARCHITECT CGMT, INC JARRARD DESIGN 60 MARTIN LANE 506 GREENFIELD AVENUE ELK GROVE VILLAGE, IL 60007 GLEN ELLYN, IL60137 CONTACT: PRATIK K. PATEL, P.E. CONTACT: DENNIS JARRARD DENNIS@JARRARDDESIGN.COM (630) 595-1111

TRAFFIC ENGINEER HR GREEN 420 N. FRONT STREET MCHENRY, IL 60050 CONTACT: JOE VAVRINA, P.E. (815) 385-1778

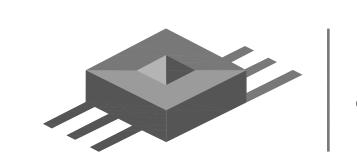
(248) 212-4920

12/8/20 RYAN J. BLOCKER RYAN J. BLOCKER RBLOCKER@JACOBANDHEFNER.COM 062-060791 ILLINOIS REGISTRATION NO. 062-060791 EXPIRES 11/30/2021 ENGINEER ONLY CERTIFIES SHEETS C1-AT1 THESE PLANS OR ANY PART THEREOF SHALL BE CONSIDERED VOID WITHOUT THE ORIGINAL SIGNATURE, IMPRESSED SEAL, EXPIRATION DATE OF SEAL OF THE ENGINEER AND MARKED "FOR CONSTRUCTION"





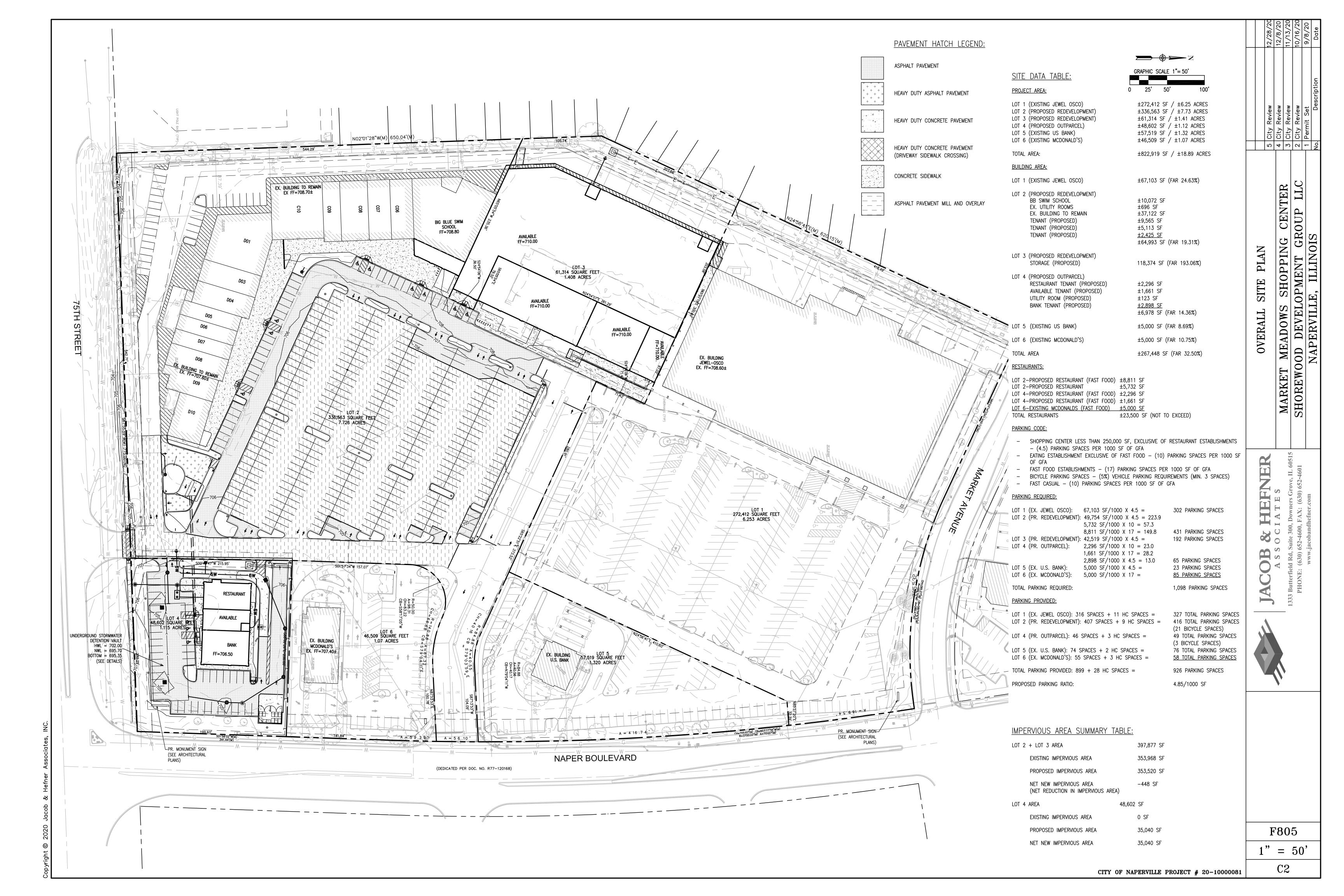
Municipality: Naperville County: DuPage Section: 29 Township: 38N Range: 10E

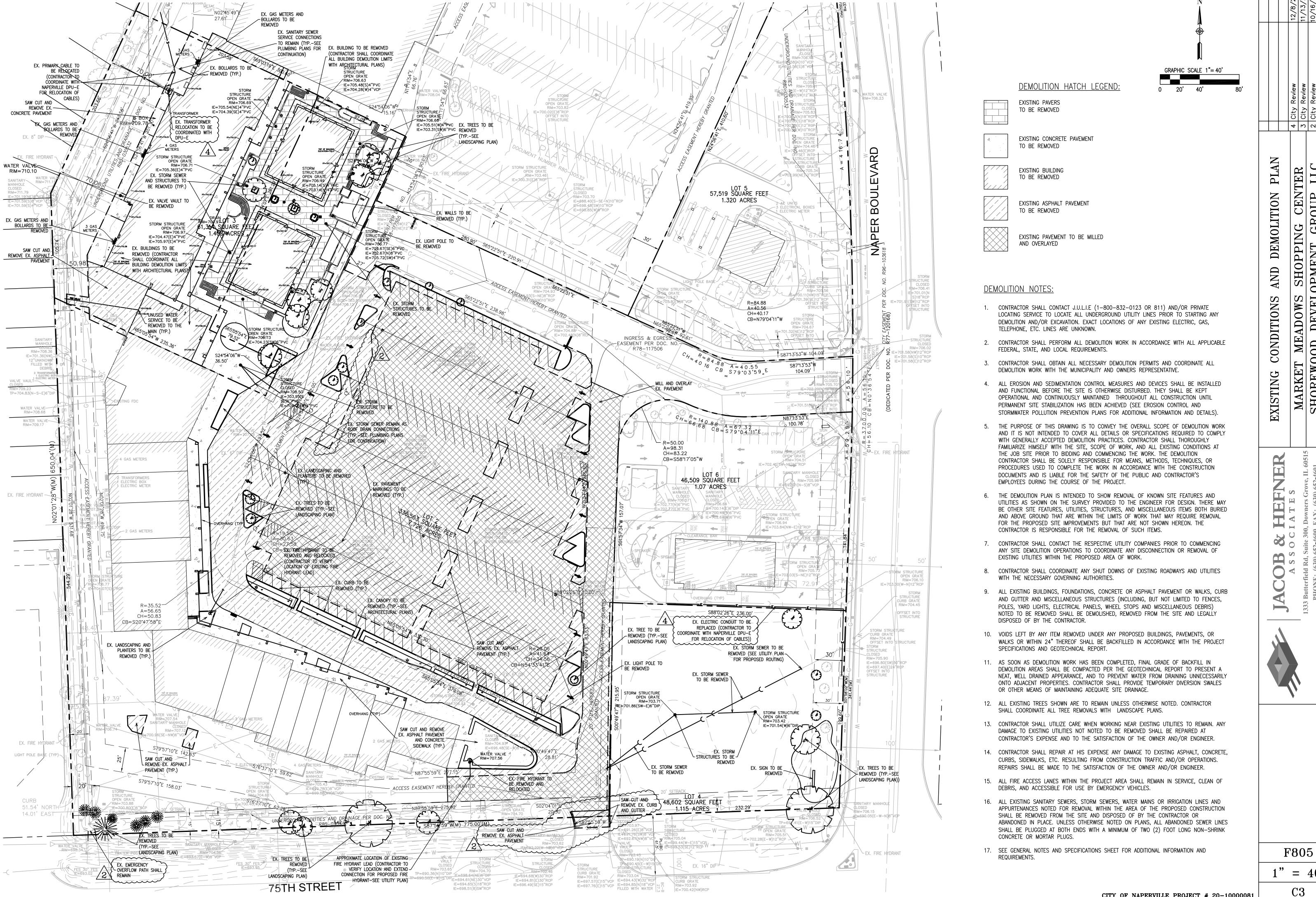


## JACOB & HEFNER ASSOCIATES

1333 Butterfield Rd, Suite 300, Downers Grove, IL 60515 PHONE: (630) 652-4600, FAX: (630) 652-4601 www.jacobandhefner.com

# FOR REVIEW PURPOSES ONLY

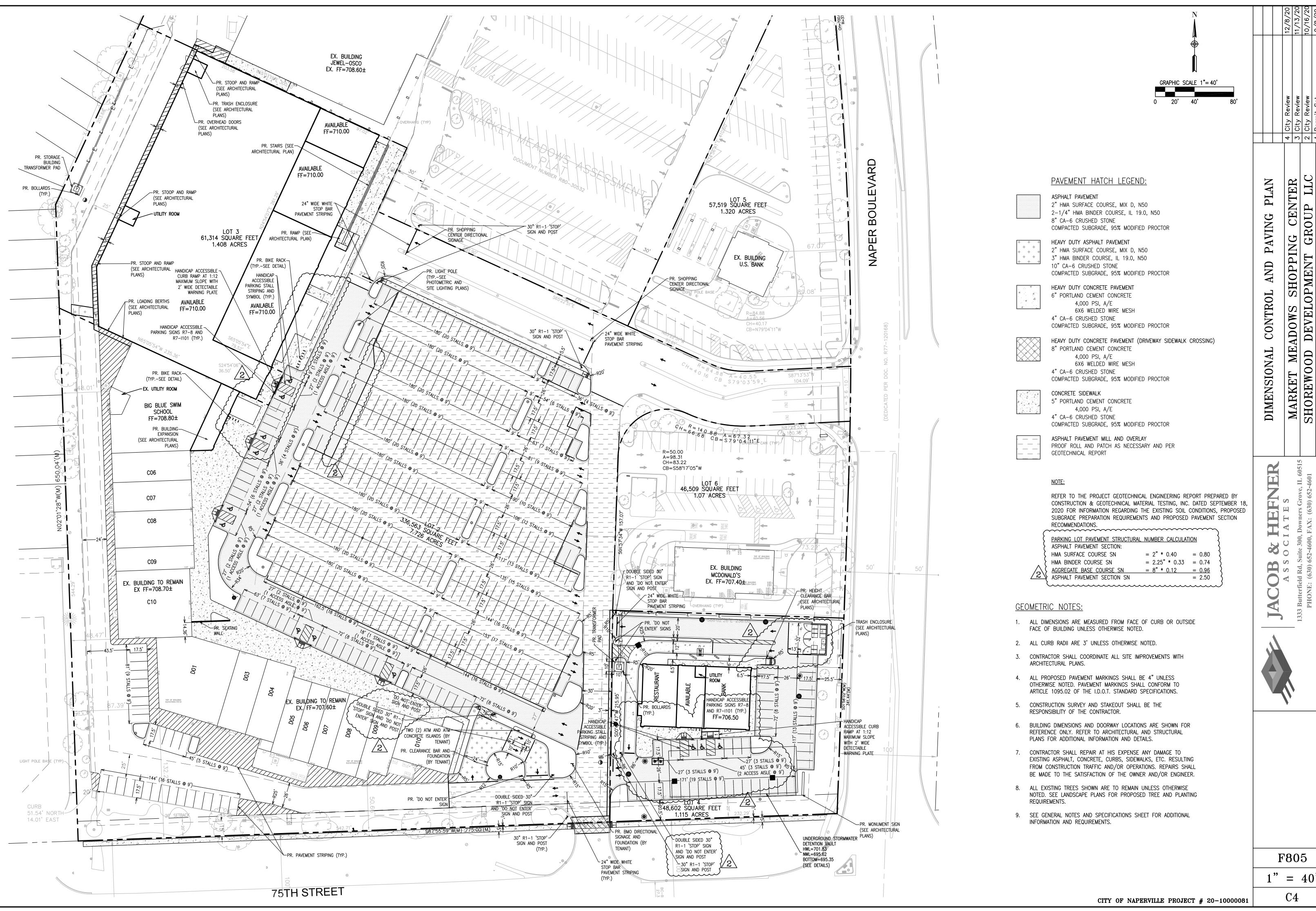


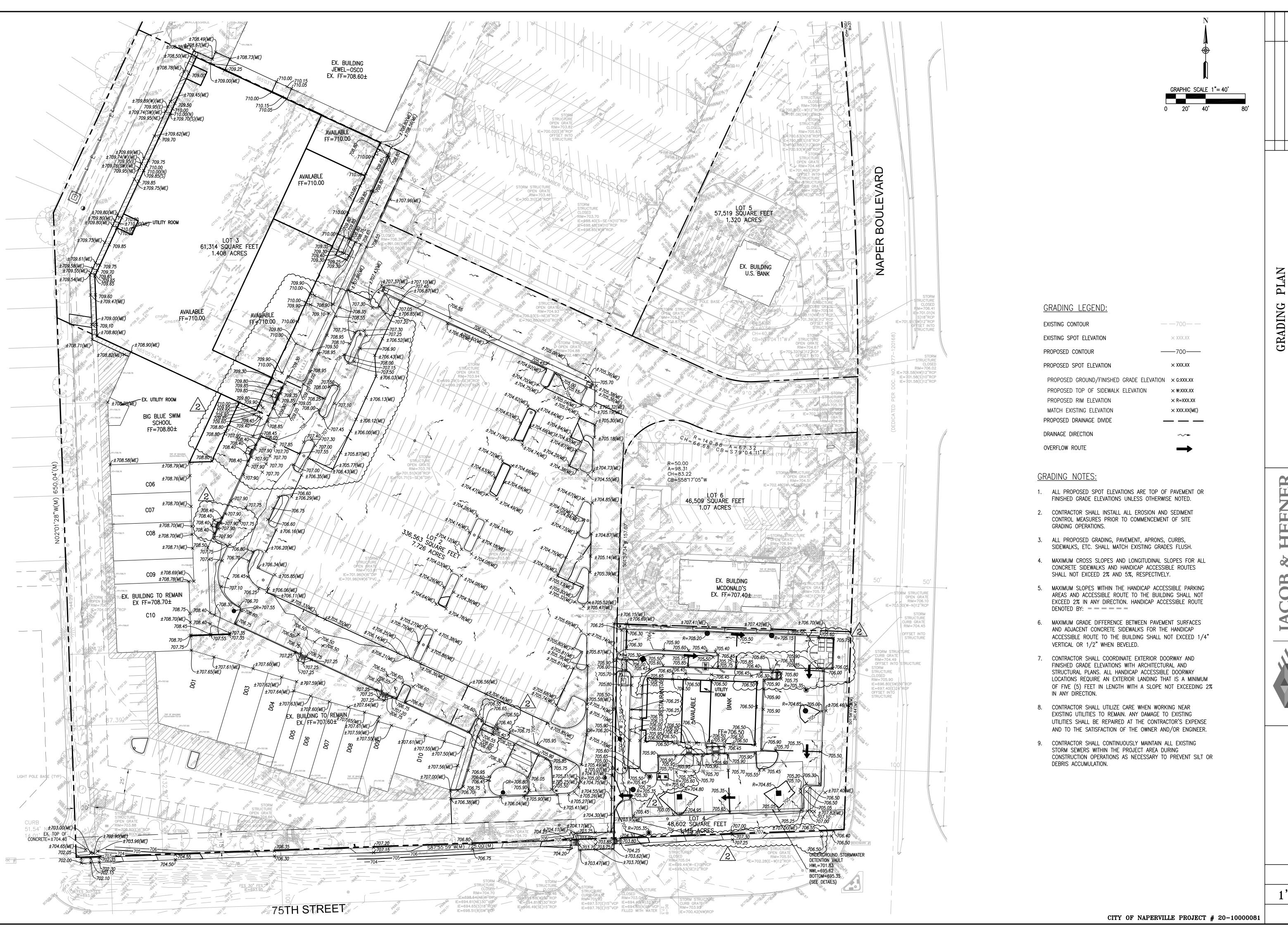


MEADOWS
DEVEI

= 40

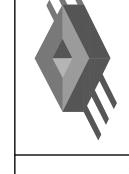
CITY OF NAPERVILLE PROJECT # 20-10000081





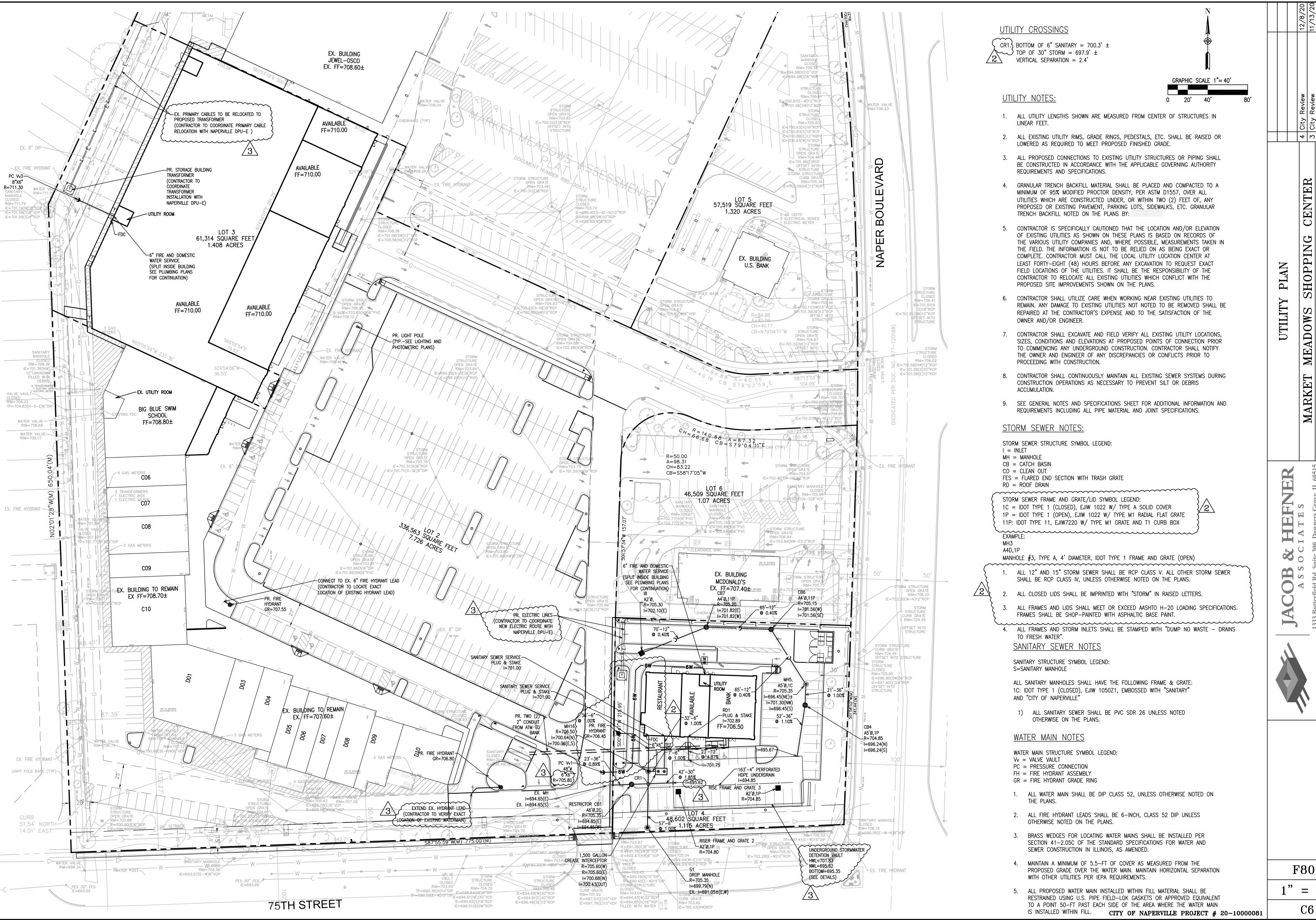
MEADOWS SHOPPING CENTER OD DEVELOPMENT GROUP LLC

MARKET SHOREWO



F805

1" = 40

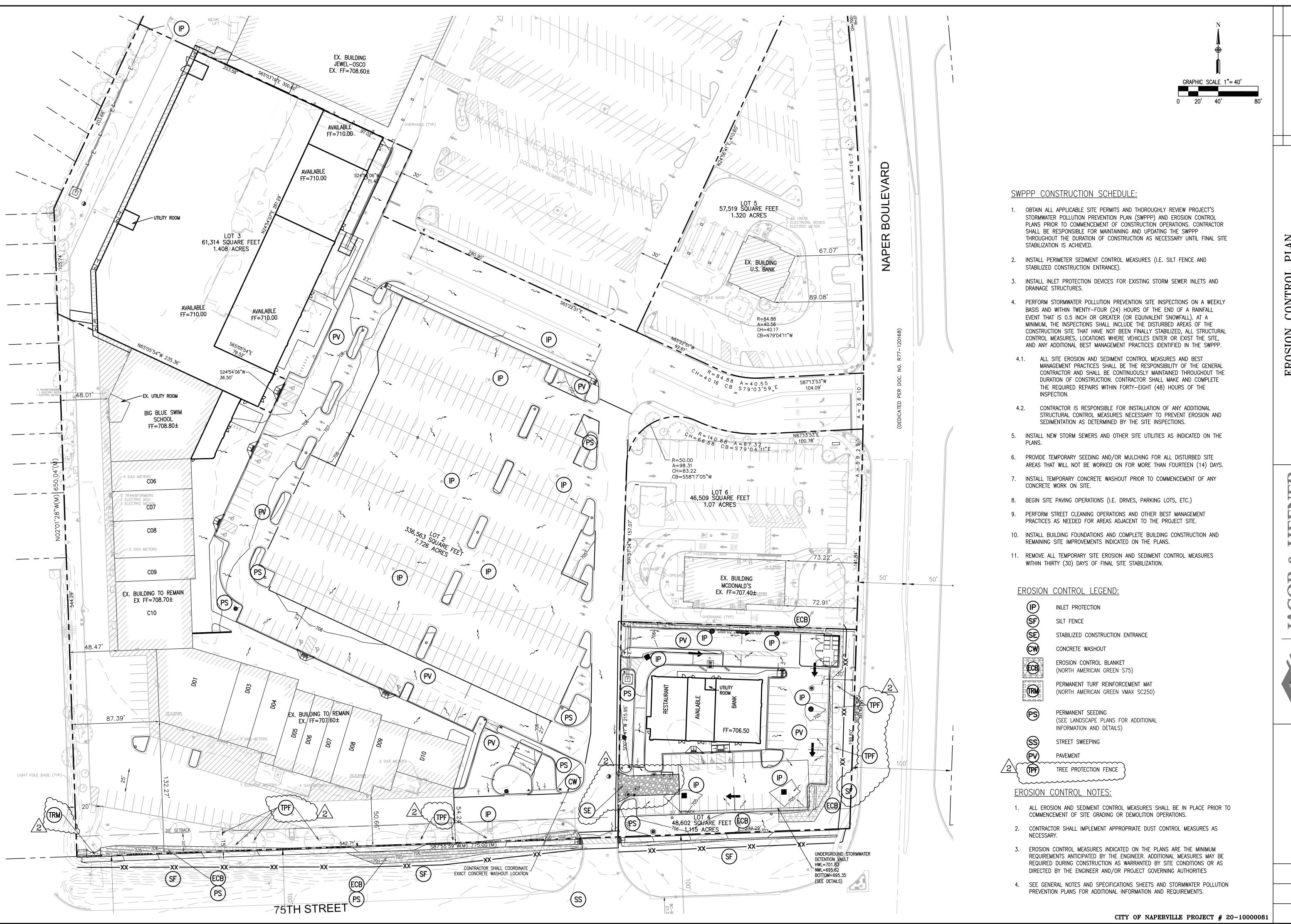


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MEADOWS SHOPPING CENTOD DEVELOPMENT GROUP
NAPERVILLE, ILLINOIS MARKET SHOREWO

F805

 $= 40^{\circ}$ 



MARKET SHOREWO

F805

1'=40'

CONTROL MEASURE GROUP	CONTROL MEASURE	APPLICABLE	SYMBOL	CONTROL MEASURE CHARACTERISTICS	TEMPORARY	PERMANENT	REQUIRED MAINTENANCE
	TEMPORARY SEEDING		TS	PROVIDES QUICK TEMPORARY COVER TO CONTROL EROSION WHEN PERMANENT SEEDING IS NOT DESIRED OR TIME OF YEAR IS INAPPROPRIATE	X		RESEED ANY FAILING AREAS
VEGETATIVE	PERMANENT SEEDING	X	PS	PROVIDES PERMANENT VEGETATIVE COVER TO CONTROL EROSION AND FILTERS SEDIMENT FROM WATER. MAY BE PART OF FINAL LANDSCAPE PLAN		X	RESEED ANY FAILING AREAS
SOIL COVER	DORMANT SEEDING		DS	SAME AS PERMANENT SEEDING EXCEPT IS DONE DURING DORMANT SEASON. HIGHER RATES OF SEED APPLICATION ARE REQUIRED	X	X	RESEED AS NEEDED
	SODDING		(SO)	QUICK PERMANENT VEGETATIVE COVER USED TO CONTROL EROSION AND ESTABLISH VEGETATIVE FILTER STRIP, CAN BE USED ON STEEP SLOPES OR IN DRAINAGE WAYS OR OTHER AREAS WHERE SEEDING MAY BE DIFFICULT	X	X	N/A
	MACHINE TRACKING		GC	PROVIDES SOIL ROUGHING TO PREVENT EROSION		X	N/A
NON	POLYMER		P	USED AS ADDED INSURANCE IN CONJUNCTION WITH TEMPORARY OR PERMANENT SEEDING. PROVIDES TEMPORARY COVER WHERE VEGETATION CANNOT BE ESTABLISHED	X	X	REAPPLY EVERY 1-1/2 MONTHS
VEGETATIVE SOIL COVER	AGGREGATE COVER		AG	PROVIDES SOIL COVER ON ROADS, PARKING LOTS AND OTHER AREAS WHERE VEGETATION CANNOT BE ESTABLISHED. PREVENTS MUD FROM BEING PICKED UP AND CARRIED OFF—SITE	X	X	CLEAN DIRT AND SEDIMENT FROM STONE AS NEEDED
	PAVING	X	PV	PROVIDES PERMANENT COVER ON ROADS, PARKING LOTS AND OTHER AREAS WHERE VEGETATION CANNOT BE ESTABLISHED		X	N/A
	RIDGE DIVERSION		RD	TYPICALLY USED ABOVE SLOPES TO COLLECT RUNOFF AND TRANSFER DOWNSTREAM	X	X	CLEAN OUT SILT WHEN HALF FULL
	CHANNEL DIVERSION		(1)	TYPICALLY USED TO DIVERT RUNOFF TO PREVENT EROSION	X	X	REPLACE PROTECTION AS NEEDED
DIVERSIONS	COMBINATION DIVERSION		(DC)	TYPICALLY USED ANYWHERE ON A SLOPE. SOIL TAKEN OUT OF A CHANNEL IS USED TO BUILD THE RIDGE	X	X	REPLACE PROTECTION AS NEEDED
	CURB AND GUTTER		CCG	SPECIAL CASE OF DIVERSION USED IN CONJUNCTION WITH A ROAD TO DIVERT RUNOFF FROM AN AREA NEEDING EROSION PROTECTION		X	N/A
	BENCHES		В	SPECIAL CASE OF DIVERSION CONSTRUCTED WHEN WORKING ON CUT SLOPES TO SHORTEN LENGTH OF SLOPE AND PROVIDE SLOPE STABILITY	X	X	N/A
	VEGETATIVE CHANNEL		VC	PROVIDES ADDITIONAL STABILITY TO CHANNEL AND USED WITH RELATIVELY LOW FLOW VELOCITIES	X	X	REDO ANY FAILING AREAS
WATERWAYS	LINED CHANNEL		(C)	USED WHEN VEGETATION IS INADEQUATE TO PROTECT A CHANNEL FROM HIGH FLOW VELOCITIES OR WHERE VEGETATION CANNOT BE ESTABLISHED	X	X	REPLACE PROTECTION AS NEEDED
ENCLOSED DRAINAGE	STORM SEWER	X	STM	CAN BE USED TO CONVEY SEDIMENT LADEN RUNOFF TO SEDIMENT BASIN OR IN CONJUNCTION WITH A WATERWAY	X	X	CLEAN OUT SEDIMENT AS NEEDED
	UNDER DRAIN	X	(B)	USED TO LOWER WATER TABLE AND INTERCEPT GROUNDWATER FOR BETTER VEGETATION GROWTH AND SLOPE STABILITY. USED TO CARRY BASE FLOW IN	X	X	N/A
	STRAIGHT PIPE SPILLWAY		(SPS)	WATERWAYS AND TO DEWATER SEDIMENT BASINS.  USED FOR RELATIVELY SMALL VERTICAL DROPS AND SMALL FLOWS OF WATER		X	CLEAN OUT CONSTRUCTION DEBRIS AS NEEDED
	DROP INLET PIPE SPILLWAY		DIS	SAME AS PIPE SPILLWAY EXCEPT LARGER FLOWS AND LARGE VERTICAL DROPS CAN BE ACCOMMODATED		X	CLEAN OUT CONSTRUCTION DEBRIS AS NEEDED
SPILLWAYS	WEIR SPILLWAY		(w)	USED FOR RELATIVELY SMALL VERTICAL DROPS AND FLOWS IN EXCESS OF THE STORM SEWER SYSTEM	X	X	CLEAN OUT CONSTRUCTION DEBRIS AS NEEDED
	BOX INLET WEIR SPILLWAY		BS	SAME AS WEIR SPILLWAY EXCEPT LARGER FLOWS CAN BE ACCOMMODATED DUE TO LOWER WEIR LENGTH	X	X	CLEAN OUT CONSTRUCTION DEBRIS AS NEEDED
OUTLETS	LINED APRON	+	(A)	PROTECTS DOWNSTREAM CHANNEL FROM HIGH VELOCITY OF FLOW DISCHARGING FROM FLARED END SECTIONS OR OTHER OUTLET STRUCTURES	X	X	REPAIR DISLODGED STONES AND EROSION UNDER RIP—RAP AS NEEDED
OED!! JENT	SEDIMENT BASIN		(SB)	USED TO COLLECT SMALLER PARTICLES AND TO DETAIN WATER WITH A CONTROLLED RELEASE	X	X	CLEAN OUT SEDIMENT WHEN HALF FULL
SEDIMENT BASINS	SEDIMENT TRAP		ST	USED TO COLLECT LARGER PARTICLES AND TO DETAIN WATER WITH A CONTROLLED RELEASE	X	X	CLEAN OUT SEDIMENT WHEN HALF FULL
0500.450.5	SILT FENCE	+	(SF)	USED TO FILTER SEDIMENT FROM RUNOFF	X	, ,	CLEAN OUT SEDIMENT WHEN HALF FULL AND REPAIR AS NEEDED
SEDIMENT FILTERS	VEGETATIVE FILTER	, ,	(VF)	USED ALONG DRAINAGE WAYS OR PROPERTY LINES TO FILTER SEDIMENT FROM RUNOFF	X	X	REDO ANY FAILING AREAS
	STABILIZED CONSTRUCTION ENTRANCE	+	(SE)	PREVENTS MUD AND SEDIMENT FROM BEING PICKED UP AND CARRIED OFF-SITE	X		SCRAPE MUD AND REPLACE STONE AS NEEDED
MUD AND DUST CONTROL	DUST CONTROL	X	(DT)	PREVENTS DUST FROM LEAVING CONSTRUCTION SITE	X		REAPPLY AS NEEDED
	EROSION CONTROL BLANKET	$\frac{1}{X}$	(ECB)	PROTECTS SOIL, PREVENTS SEED WASHOUT AND HELPS GROW VEGETATION	X		REPLACE AS NEEDED
	TURF REINFORCEMENT MAT		(TRM)	REINFORCES TURF IN CHANNELS, SHORELINES AND HIGH FLOW AREAS	/ \	X	REPLACE AS NEEDED
	CELLULAR CONFINEMENT		(CF)	USED FOR SOIL STABILIZATION	X	X	REPLACE AS NEEDED
EROSION CONTROL	GABIONS		(GA)	USED TO PREVENT EROSION IN HIGH FLOW AREAS	<u>/\</u>	<u> </u>	REPLACE AS NEEDED
	GEOTEXTILE FABRIC		(GF)	USED FOR EROSION AND SEDIMENT CONTROL, SOIL SEPARATION AND SOIL	<u> </u>	<u> </u>	REPLACE AS NEEDED
	GEOBLOCK POROUS PAVEMENT		(PP)	STABILIZATION  USED FOR FIRE LANE ACCESS OR VEGETATIVE PAVEMENT	\ \	\ \	REPLACE AS NEEDED
	INLET PROTECTION	<del> </del>	(P)	USED TO PREVENT SEDIMENT FROM ENTERING THE STORM SEWER SYSTEM	\\ \\ \	/\	REPLACE OR CLEAN WHEN CLOGGED
	SLOPE INTERRUPT	^	(SI)	USED TO BREAK UP RUNOFF FLOW ON A SLOPE	\ <u>\</u>		CLEAN OUT SEDIMENT WHEN HALF FULL
	DITCH CHECK		(DIC)	USED FOR SEDIMENT FLOW CONTROL IN SWALES AND CHANNELS	\ <u>\</u>	\ <u></u>	CLEAN OUT SEDIMENT WHEN HALF FULL
	FLOC LOG		(FL)	USED FOR SEDIMENT FLOW CONTROL IN SWALES AND CHANNELS  USED TO CLARIFY WATER THAT HAS SEDIMENT IN THE WATERY COLUMN			REPLACE WHEN HALF DISSOLVED
SEDIMENT CONTROL						\ \	REPLACE WHEN FABRIC IS TORN OR
	SILT CURTAIN		(sc)	USED FOR SEDIMENT CONTROL IN STREAMS, PONDS, ETC.	<u> </u>		HOLES BEGIN TO FORM  REPLACE WHEN HALF FULL, FABRIC IS
	PUMPING DISCHARGE BAG		(PB)	USED FOR PUMP DISCHARGE LINES	X		TORN OR HOLES BEGIN TO FORM  CLEAN OUT WHEN HALF FULL AND CLEAN
	CONCRETE WASHOUT	X	(cw)	USED TO WASH OUT CONCRETE TRUCKS	X	\ /	WASHOUT GRAVEL AREA AS NEEDED  CLEAN ONCE A WEEK OR AS NEEDED TO
	STREET SWEEPING	<u> </u> X	(ss)	USED TO PREVENT SILT BUILD UP IN STREETS	X	X	KEEP STREET CLEAN

#### SWPPP NOTES:

THIS PLAN HAS BEEN PREPARED TO COMPLY WITH THE PROVISIONS OF THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT NUMBER ILR10, ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY, WHICH AUTHORIZES STORMWATER DISCHARGES RESULTING FROM CONSTRUCTION SITE ACTIVITIES AND THE SOIL EROSION AND SEDIMENT CONTROL ORDINANCES AND REQUIREMENTS OF THE LOCAL GOVERNING AUTHORITIES.

#### 1. SITE DESCRIPTION

- A. THE FOLLOWING IS A DESCRIPTION OF THE PROPOSED CONSTRUCTION ACTIVITIES THAT ARE THE SUBJECT OF THIS PLAN:
- THE SITE IMPROVEMENTS ASSOCIATED WITH THE PROPOSED INDUSTRIAL DEVELOPMENT WILL INCLUDE THE FOLLOWING: DEMOLITION, MASS GRADING, PAVEMENT CONSTRUCTION, INSTALLATION OF UTILITIES INCLUDING STORM SEWERS, SANITARY SEWERS AND WATERMAIN AND SOIL EROSION AND SEDIMENTATION CONTROL MEASURES.
- B. THE FOLLOWING IS A DESCRIPTION OF THE INTENDED SEQUENCE OF MAJOR ACTIVITIES WHICH WILL DISTURB SOILS FOR MAJOR PORTIONS OF THE CONSTRUCTION SITE, SUCH AS GRUBBING, EXCAVATION, AND GRADING:
- THE SEQUENCE OF THE CONSTRUCTION ACTIVITIES MAY BE AS FOLLOWS: 1) INSTALL PERIMETER CONTROLS INCLUDING SILT FENCE AND STABILIZED CONSTRUCTION ENTRANCE, 2) SITE DEMOLITION, 3) MASS GRADING, 4) UNDERGROUND UTILITIES INSTALLATION, 5) BUILDING FOUNDATIONS, 6) FINE GRADING IN PAVEMENT AREAS AND 7) PAVEMENT AND BUILDING CONSTRUCTION. THE SOIL EROSION AND SEDIMENTATION CONTROL ITEMS WILL BE CONSTRUCTED AND MAINTAINED AS NEEDED DURING THE ABOVE CONSTRUCTION ACTIVITIES.
- C. THE TOTAL AREA OF THE CONSTRUCTION SITE IS ESTIMATED TO BE <u>8.00</u> ACRES.
- THE TOTAL AREA OF THE SITE THAT IS ESTIMATED TO BE DISTURBED BY EXCAVATION, GRADING, OR OTHER CONSTRUCTION ACTIVITIES IS  $\underline{4.35}$  ACRES.
- D. THE ESTIMATED RUNOFF COEFFICIENTS OF THE VARIOUS AREAS OF THE SITE AFTER CONSTRUCTION ACTIVITIES ARE COMPLETED ARE CONTAINED IN THE PROJECT DRAINAGE STUDY, TITLED <u>STORMWATER MANAGEMENT REPORT MARKET MEADOWS SHOPPING CENTER</u>, AS PREPARED BY JACOB & HEFNER ASSOCIATES. INC. WHICH IS HEREBY INCORPORATED BY REFERENCE IN THIS PLAN.
- THE ESTIMATED PROPOSED OVERALL SITE RUNOFF COEFFICIENT IS <u>0.80</u>.
- E. EXISTING DATA DESCRIBING SOILS OR QUALITY OF DISCHARGE (SEE SOILS REPORT IF AVAILABLE) POOR/FAIR/GOOD/NOT AVAILABLE: GOOD
- F. NAME OF RECEIVING WATER(S): <u>CITY OF NAPERVILLE SEWERS</u>

  NAME OF ILL TIMATE RECEIVING WATER(S): <u>DUBACE RIVER</u>
- NAME OF ULTIMATE RECEIVING WATER(S): <u>DUPAGE RIVER</u>
  G. EXISTING AREAS EXHIBITING WETLAND CHARACTERISTICS: <u>0.0 ACRES</u>

#### 2. CONTROLS

THIS SECTION OF THE PLAN ADDRESSES THE VARIOUS CONTROLS THAT WILL BE IMPLEMENTED FOR EACH OF THE MAJOR CONSTRUCTION ACTIVITIES DESCRIBED IN 1.B ABOVE. FOR EACH MEASURE DISCUSSED, THE CONTRACTOR(S) SHALL BE RESPONSIBLE FOR ITS IMPLEMENTATION AS INDICATED. EACH SUCH CONTRACTOR HAS SIGNED THE REQUIRED CERTIFICATION ON FORMS WHICH ARE ATTACHED TO, AND ARE A PART OF, THIS PLAN.

#### A. EROSION AND SEDIMENT CONTROLS

- (1) STABILIZATION PRACTICES: PROVIDED BELOW IS A DESCRIPTION OF INTERIM AND PERMANENT STABILIZATION PRACTICES, INCLUDING SITE—SPECIFIC SCHEDULING OF THE IMPLEMENTATION OF THE PRACTICES. SITE PLANS WILL ENSURE THAT EXISTING VEGETATION IS PRESERVED WHERE ATTAINABLE AND DISTURBED PORTIONS OF THE SITE WILL BE STABILIZED. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED ON ALL DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY WILL NOT OCCUR FOR A PERIOD OF 21 OR MORE CALENDAR DAYS.
- WHERE THE INITIATION OF STABILIZATION MEASURES BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASES IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BY INITIATED AS SOON AS PRACTICABLE THEREAFTER.
- THE FOLLOWING INTERIM AND PERMANENT STABILIZATION PRACTICES, AS A MINIMUM, WILL BE IMPLEMENTED TO STABILIZE THE DISTURBED AREA OF THE SITE:
- PERMANENT SEEDING
   SILT FENCE
   VEGETATIVE FILTER
- 4. STABILIZED CONSTRUCTION ENTRANCE5. BARRIER FILTER
- (II) STRUCTURAL PRACTICES: PROVIDED BELOW IS A DESCRIPTION OF STRUCTURAL PRACTICES THAT WILL BE IMPLEMENTED, TO THE DEGREE ATTAINABLE, TO DIVERT FLOWS FROM EXPOSED SOILS, STORE FLOWS OR OTHERWISE LIMIT RUNOFF AND THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE. THE INSTALLATION OF THESE DEVICES MAY BE SUBJECT TO SECTION 404 OF THE CLEAN WATER ACT.
- 1. DETENTION/RETENTION POND(S)
- STORM SEWER SYSTEM
   RIP-RAP OUTLET PROTECTION
   PERMANENT SEEDING
- (III) DUST CONTROL: DUST CONTROL SHALL BE PROVIDED PER STANDARD 825 OF ILLINOIS URBAN MANUAL. THE FOLLOWING DUST CONTROL METHODS CAN BE USED:
- IRRIGATION
   SPRAY ON ADHESIVE
- 3. VEGETATIVE COVER
  4. MULCHING

#### B. STORMWATER MANAGEMENT

- (I) PROVIDED BELOW IS A DESCRIPTION OF MEASURES THAT WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS TO CONTROL POLLUTANTS IN STORMWATER DISCHARGES THAT WILL OCCUR AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED. THE INSTALLATION OF THESE DEVICES MAY BE SUBJECT TO SECTION 404 OF THE CLEAN WATER ACT.
- THE PRACTICES SELECTED FOR IMPLEMENTATION WERE DETERMINED ON THE BASIS OF THE TECHNICAL GUIDANCE CONTAINED IN IEPA'S STANDARD SPECIFICATIONS FOR SOIL EROSION AND SEDIMENTATION CONTROL, AND OTHER ORDINANCES LISTED IN THE SPECIFICATIONS.
- THE STORMWATER POLLUTANT CONTROL MEASURES SHALL INCLUDE:
- 1. SILT FENCE 2. BARRIER FILTERS
- 3. STORM SEWER SYSTEM
  4. DETENTION/RETENTION POND(S)
- (II) VELOCITY DISSIPATION DEVICES WILL BE PLACED AT DISCHARGE LOCATIONS AND ALONG THE LENGTH OF ANY OUTFALL CHANNEL AS NECESSARY TO PROVIDE A NON-EROSIVE VELOCITY FLOW FROM THE STRUCTURE TO A WATER COURSE SO THAT THE NATURAL PHYSICAL AND BIOLOGICAL CHARACTERISTICS AND FUNCTIONS ARE MAINTAINED AND PROTECTED (E.G., MAINTENANCE OF HYDROLOGIC CONDITIONS, SUCH AS THE HYDROPERIOD AND HYDRODYNAMICS PRESENT PRIOR TO THE INITIATION OF CONSTRUCTION ACTIVITIES).
- STORMWATER MANAGEMENT CONTROL INCLUDES:
- RIP-RAP FOR OUTLET PROTECTION
   DITCH CHECKS

#### C. OTHER CONTROLS

- ) WASTE DISPOSAL: THE SOLID WASTE MATERIALS INCLUDING TRASH, CONSTRUCTION DEBRIS, EXCESS CONSTRUCTION MATERIALS, MACHINERY, TOOLS AND OTHER ITEMS WILL BE COLLECTED AND DISPOSED OF OFF-SITE BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE TO ACQUIRE ANY PERMIT REQUIRED FOR SUCH DISPOSAL. BURNING ON THE SITE WILL NOT BE PERMITTED. NO SOLID MATERIALS, INCLUDING BUILDING MATERIALS, SHALL BE DISCHARGED INTO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
- (II) THE PROVISIONS OF THIS PLAN SHALL ENSURE AND DEMONSTRATE COMPLIANCE WITH APPLICABLE STATE AND/OR LOCAL WASTE DISPOSAL, SANITARY SEWER OR SEPTIC SYSTEM REGULATIONS.
- ANY AND ALL SANITARY SEWAGE SHALL BE DISCHARGED TO THE EXISTING AND/OR PROPOSED SANITARY SEWER SYSTEM CONSTRUCTED PER IEPA AND LOCAL STANDARDS.

### D. APPROVED STATE OR LOCAL PLANS

(I) THE MANAGEMENT PRACTICES, CONTROLS, AND OTHER PROVISIONS CONTAINED IN THIS PLAN ARE AT LEAST AS PROTECTIVE AS THE REQUIREMENTS CONTAINED IN THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY'S STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL DATED OCTOBER 1987, ILLINOIS PROCEDURES AND STANDARDS FOR URBAN SOIL EROSION AND SEDIMENTATION PLAN, AND THE MUNICIPAL SUBDIVISION ORDINANCE. REQUIREMENTS SPECIFIED IN SEDIMENT AND EROSION CONTROL SITE PLANS, STORMWATER MANAGEMENT SITE PLANS OR SITE PERMITS APPROVED BY LOCAL OFFICIALS THAT ARE APPLICABLE TO PROTECTING SURFACE WATER RESOURCES ARE, UPON SUBMITTAL OF AN NOI, TO BE AUTHORIZED TO DISCHARGE UNDER THIS PERMIT, INCORPORATED BY REFERENCE AND ARE ENFORCEABLE UNDER THIS PERMIT EVEN IF THEY ARE NOT SPECIFICALLY INCLUDED IN THE PLAN.

#### 3. MAINTENANCE

- THE FOLLOWING IS A DESCRIPTION OF PROCEDURES THAT WILL BE USED TO MAINTAIN, IN GOOD AND EFFECTIVE OPERATING CONDITIONS, VEGETATION, EROSION AND SEDIMENT CONTROL MEASURES AND OTHER PROTECTIVE MEASURES IDENTIFIED IN THIS PLAN AND THE STANDARD SPECIFICATIONS.
- A. STABILIZED CONSTRUCTION ENTRANCE: THE ENTRANCE SHALL BE MAINTAINED TO PREVENT TRACKING OF SEDIMENT ONTO PUBLIC STREETS. THIS WILL BE DONE BY TOP DRESSING WITH ADDITIONAL STONES, REMOVING AND REPLACING TOP LAYER OF STONES OR WASHING THE ENTRANCE. THE SEDIMENT WASHED ON THE PUBLIC RIGHT-OF-WAY WILL BE REMOVED IMMEDIATELY.
- B. VEGETATIVE EROSION CONTROL MEASURES: THE VEGETATIVE GROWTH OF TEMPORARY AND PERMANENT SEEDING, SODDING, VEGETATIVE CHANNELS, VEGETATIVE FILTER, ETC. SHALL BE MAINTAINED PERIODICALLY AND SUPPLIED WITH ADEQUATE WATERING AND FERTILIZER. THE VEGETATIVE COVER SHALL BE REMOVED AND RESEEDED AS NECESSARY.
- C. SEDIMENTATION BASINS/TRAPS: SEDIMENT SHALL BE REMOVED WHEN 40-50 PERCENT OF THE TOTAL ORIGINAL CAPACITY OF THE SEDIMENT BASIN/TRAP IS FILLED WITH SEDIMENT. IN NO CASE SHALL THE SEDIMENT BE BUILT UP TO MORE THAN 1 FOOT BELOW THE CREST ELEVATION. AT THIS STAGE, THE BASIN SHALL BE CLEANED OUT TO RESTORE ITS ORIGINAL VOLUME.
- D. SILT FENCE: THE DAMAGED SILT FENCE SHALL BE RESTORED TO MEET THE STANDARDS OR REMOVED AND REPLACED AS NEEDED.
- E. STRAW BALE BARRIER FILTERS: THE STRAW BALE BARRIER FILTER SHALL BE INSPECTED FREQUENTLY AND SHALL BE REPAIRED OR REMOVED AND REPLACED AS NEEDED.
- F. RIP-RAP OUTLET PROTECTION: RIP-RAP OUTLET PROTECTION SHALL BE INSPECTED AFTER HIGH FLOWS FOR ANY SCOUR BENEATH THE RIP-RAP OR FOR STONES THAT HAVE BEEN DISLODGED. IT SHALL BE REPAIRED IMMEDIATELY AS NEEDED.

#### 4. INSPECTIONS

- THE OWNER OR OWNER'S REPRESENTATIVE SHALL PROVIDE QUALIFIED PERSONNEL TO INSPECT DISTURBED AREAS OF THE CONSTRUCTION SITE WHICH HAVE NOT BEEN FINALLY STABILIZED, STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE. SUCH INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT THAT IS 0.5 INCHES OR GREATER OR EQUIVALENT SNOWFALL.
- A. DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF SITE SEDIMENT TRACKING.
- B. BASED ON THE RESULTS OF THE INSPECTION, THE DESCRIPTION OF POTENTIAL POLLUTANT SOURCES IDENTIFIED IN SECTION 1 ABOVE AND POLLUTION PREVENTION MEASURES IDENTIFIED IN SECTION 2 ABOVE SHALL BE REVISED AS APPROPRIATE AS SOON AS PRACTICABLE AFTER SUCH INSPECTION. ANY CHANGES TO THIS PLAN RESULTING FROM THE REQUIRED INSPECTIONS SHALL BE IMPLEMENTED WITHIN SEVEN (7) CALENDAR DAYS FOLLOWING THE INSPECTION.
- C. A REPORT SUMMARIZING THE SCOPE OF THE INSPECTION, NAME(S) AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION, THE DATE(S) OF THE INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THIS STORMWATER POLLUTION PREVENTION PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH SECTION 4.B. SHALL BE MADE AND RETAINED AS PART OF THE PLAN FOR AT LEAST THREE (3) YEARS AFTER THE DATE OF THE INSPECTION. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART VI.G OF THE GENERAL NPDES PERMIT.
- D. IF ANY VIOLATION OF THE PROVISIONS OF THIS PLAN IS IDENTIFIED DURING THE CONDUCT OF THE CONSTRUCTION WORK COVERED BY THIS PLAN, THE RESIDENT ENGINEER OR RESIDENT TECHNICIAN SHALL COMPLETE AND FILE AN "INCIDENCE OF NONCOMPLIANCE" (ION) REPORT FOR THE IDENTIFIED VIOLATION. THE RESIDENT ENGINEER OR RESIDENT TECHNICIAN SHALL USE FORMS PROVIDED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY AND SHALL INCLUDE SPECIFIC INFORMATION ON THE CAUSE OF NONCOMPLIANCE, ACTIONS WHICH WERE TAKEN TO PREVENT ANY FURTHER CAUSES OF NONCOMPLIANCE, AND A STATEMENT DETAILING ANY ENVIRONMENTAL IMPACT WHICH MAY HAVE RESULTED FROM THE NONCOMPLIANCE. ALL REPORTS OF NONCOMPLIANCE SHALL BE SIGNED BY A RESPONSIBLE AUTHORITY IN ACCORDANCE WITH PART VI. G OF THE GENERAL NPDES PERMIT. THE REPORT OF NONCOMPLIANCE SHALL BE MAILED TO THE FOLLOWING ADDRESS:

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF WATER POLLUTION CONTROL ATTN: COMPLIANCE ASSURANCE SECTION 1024 NORTH GRAND AVENUE, EAST SPRINGFIELD, IL 62794

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF WATER POLLUTION CONTROL ATTN: COMPLIANCE ASSURANCE SECTION POST OFFICE BOX 19276 SPRINGFIELD, IL 62794—9276

KENTUCKY BLUEGRASS 90 LBS/ACRE MIXED

WITH PERENNIAL RYEGRASS 30 LBS/ACRE

LBS/ACRE + 2 TONS STRAW MULCH/ACRE

B. KENTUCKY BLUEGRASS 135 LBS/ACRE

MIXED WITH PERENNIAL RYEGRASS 45

#### 5. NON-STORMWATER DISCHARGE

- EXCEPT FOR FLOWS FROM FIRE FIGHTING ACTIVITIES, SOURCES OF NON-STORMWATER THAT MAY BE COMBINED WITH STORMWATER DISCHARGES ASSOCIATED WITH THE CONSTRUCTION ACTIVITY ADDRESSED IN THIS PLAN ARE DESCRIBED BELOW:
- WATER MAIN FLUSHING
   FIRE HYDRANT FLUSHING
- WATERING FOR DUST CONTROL
   IRRIGATION DRAINAGE FOR VEGETATIVE GROWTH FOR SEEDING, ETC.
- THE FIRE HYDRANT AND WATER MAIN SHALL NOT BE FLUSHED DIRECTLY ONTO ANY EXPOSED PAVEMENT AREA OR SUBGRADE. HOSES SHALL BE USED TO DIRECT THE FLOW INTO THE STORM SEWER SYSTEM.

#### NPDES GENERAL CONTRACTOR CERTIFICATION

THIS CERTIFICATION STATEMENT IS A PART OF THE STORM WATER POLLUTION PREVENTION PLAN FOR THE PROJECT DESCRIBED BELOW, IN ACCORDANCE WITH NPDES GENERAL PERMIT NO. ILR10 AS ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY:

PROJECT TITLE:	MARKET MEADOWS	SHOPPING CENTER		
PROJECT LOCATION:	NAPERVILLE	DUPAGE	ILLINOIS	
	MUNICIPALITY	COUNTY	STATE	

CONTRACTOR:

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE READ AND UNDERSTAND THE TERMS AND CONDITIONS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT NO. ILR10 THAT AUTHORIZES STORMWATER DISCHARGES RESULTING FROM CONSTRUCTION ACTIVITIES AND THE PROJECT STORMWATER POLLUTION PREVENTION PLAN (SWPPP).

SIGNATURE DATE

<b>NPDES</b>	SUBCONTRACTOR	<b>CERTIFICATION</b>

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE READ AND UNDERSTAND THE TERMS AND CONDITIONS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT NO. ILR10 AND THE PROJECT STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AND AGREE TO FOLLOW THE BEST MANAGEMENT PRACTICES DESCRIBED THEREIN FOR ANY WORK PERFORMED ON SITE

SUBCONTRACTOR:	
SCOPE OF WORK:	
 Signature	
SUBCONTRACTOR:	
SCOPE OF WORK:	
SIGNATURE	DATE
SUBCONTRACTOR:	-
SCOPE OF WORK:	
SIGNATURE	 Date
SUBCONTRACTOR:	
SCOPE OF WORK:	
SIGNATURE	DATE
SUBCONTRACTOR:	
SCOPE OF WORK:	
 Signature	 DATE

EROSION/SEDIMENT CON	E	INSTALLATION SEQUENCE				MAINTENANCE FREQUENCY						
TEMPORARY DIVERSION SWALE AND SILT TRAPS STONE STABILIZED CONSTRUCTION ENTRANCE			PRIOR TO CLEARING AND GRADING					AS NEEDED				
			PRIOR TO	CLEARING A	ND GRADING	<b>;</b>		AS NEEDED				
SILT FENCE			PRIOR TO	CLEARING A	ND GRADING	}		WEEKLY,	AFTER STOR	RM EVENTS	AND AS NE	EDED
EXISTING INLET PROTECTION			PRIOR TO	CLEARING A	ND GRADING	3		WEEKLY,	AFTER STOR	RM EVENTS	AND AS NE	EDED
TREE PROTECTION			PRIOR TO	CLEARING A	ND GRADING	}		WEEKLY,	AFTER STOR	RM EVENTS	AND AS NE	EDED
TEMPORARY DIVERSIONS			ALONG WIT	TH ROUGH (	GRADING			WEEKLY, AFTER STORM EVENTS AND AS NEEDED				EDED
TEMPORARY SEEDING			AFTER ROL	JGH GRADIN	G			WATER AS NEEDED				
PERMANENT SEEDING, SOD, LAN	IDSCAPING		AFTER FINISH GRADING				WATER AS NEEDED					
EROSION CONTROL MATTING		AFTER FINISH GRADING				WEEKLY, AFTER STORM EVENTS AND AS NEEDED						
INLET PROTECTION		AFTER EACH INLET IS CONSTRUCTED				WEEKLY, AFTER STORM EVENTS AND AS NEEDED						
REMOVAL OF EROSION/SEDIMEN	T CONTROL MEAS	SURES	AFTER ALL DISTURBED AREAS ARE STABILIZED				N/A					
					NG CHA	<u> </u>	Ι		Ι		1	
STABILIZATION TYPE	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC
PERMANENT SEEDING			Α			- * -	-*-		-			
DORMANT SEEDING	В —		-								В ——	-
TEMPORARY SEEDING			c —			-	D		-			
SODDING			E ** —						-			
MULCHING												
MULLHING	F <del> </del>		1	i	i e	1	<b>T</b>		i		1	<del>, ,</del>

C. SPRING OATS 100 LBS/ACRE

F. STRAW MULCH 2 TONS/ACRE

E. SOD

D. WHEAT OR CEREAL RYE 150 LBS/ACRE

F805

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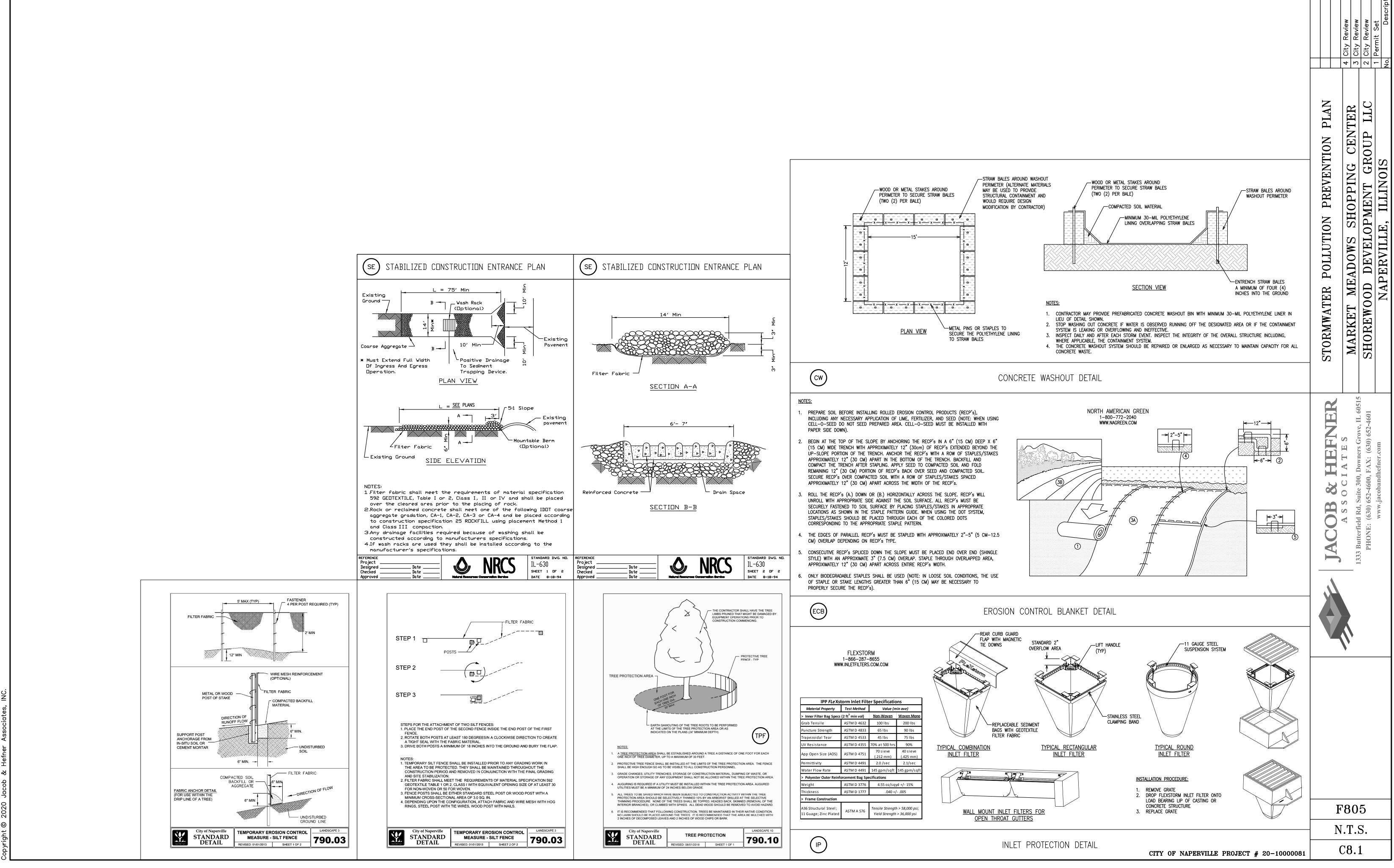
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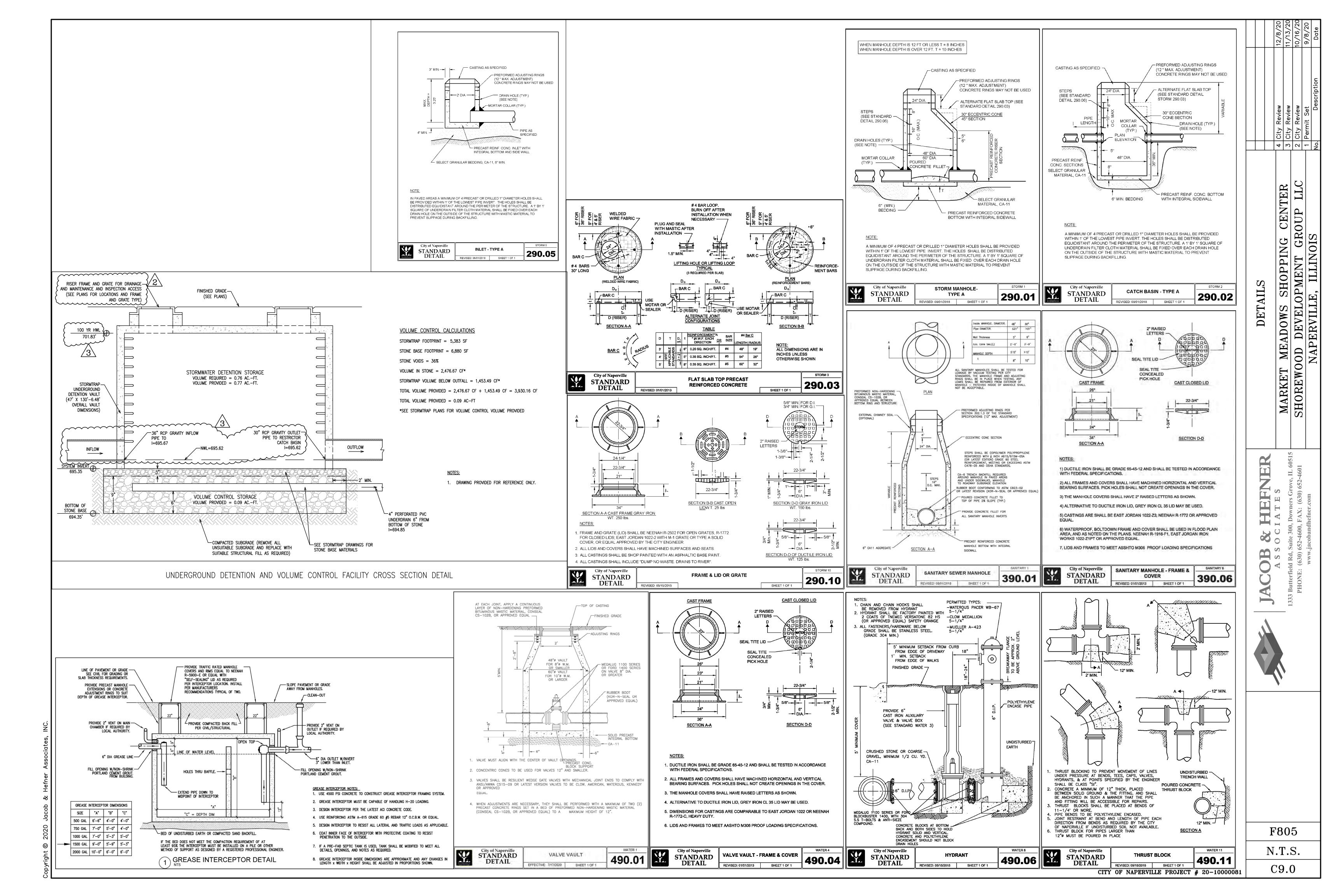
CITY OF NAPERVILLE PROJECT # 20-10000081

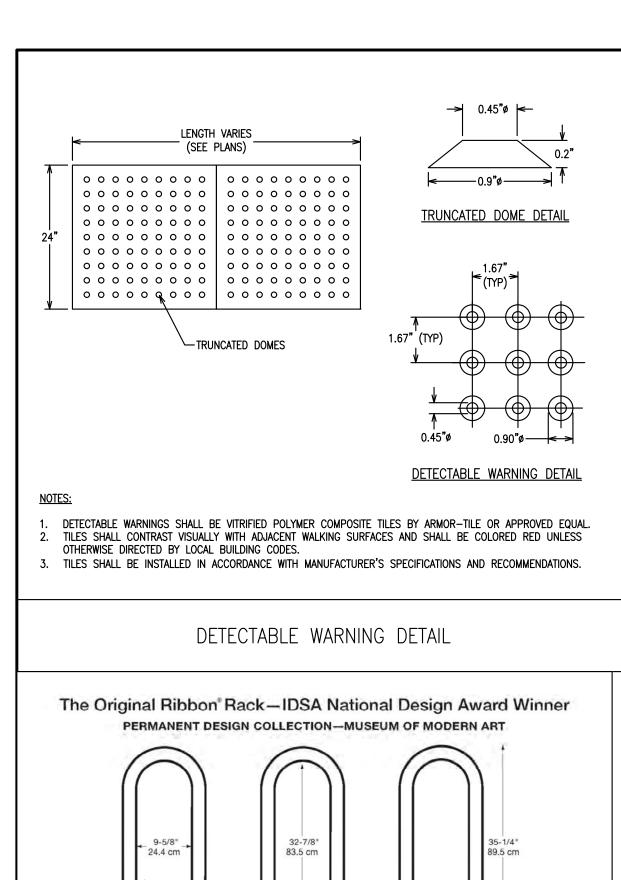
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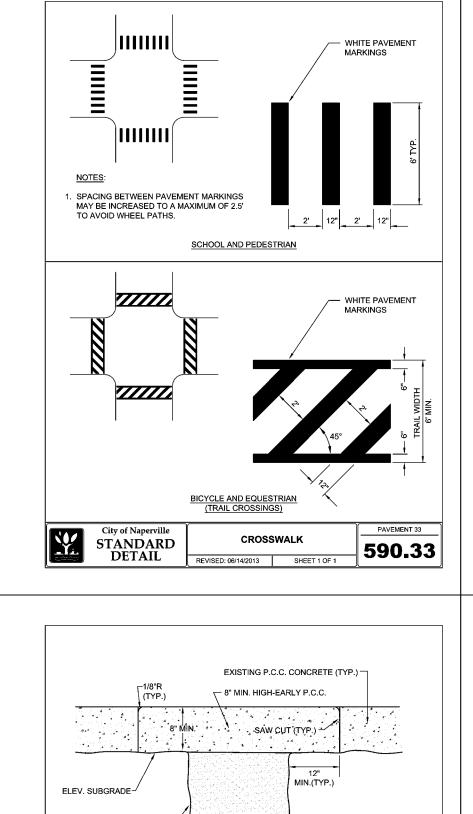
\*\* IRRIGATION NEEDED FOR 2 TO 3 WEEKS

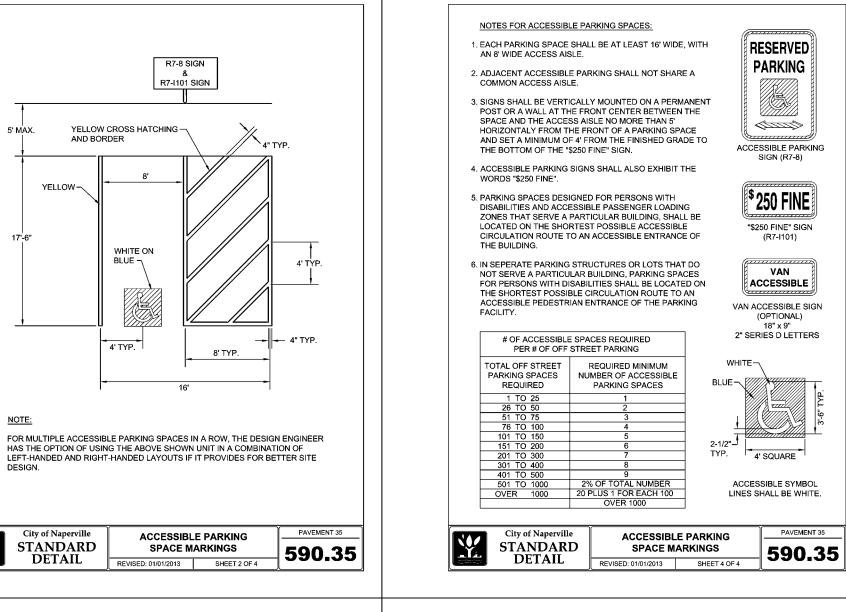
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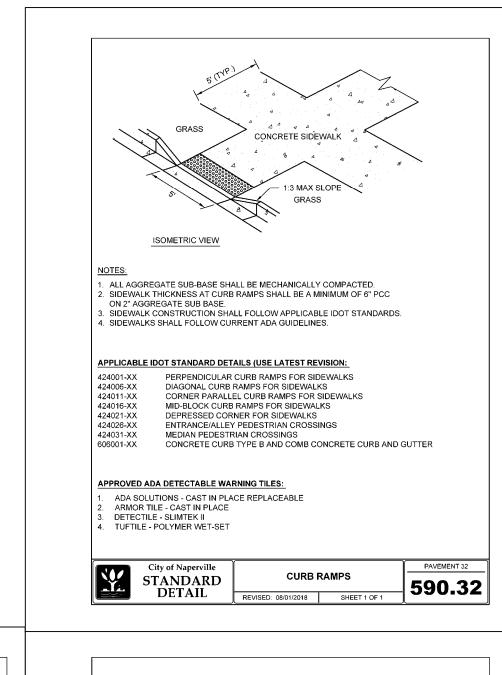


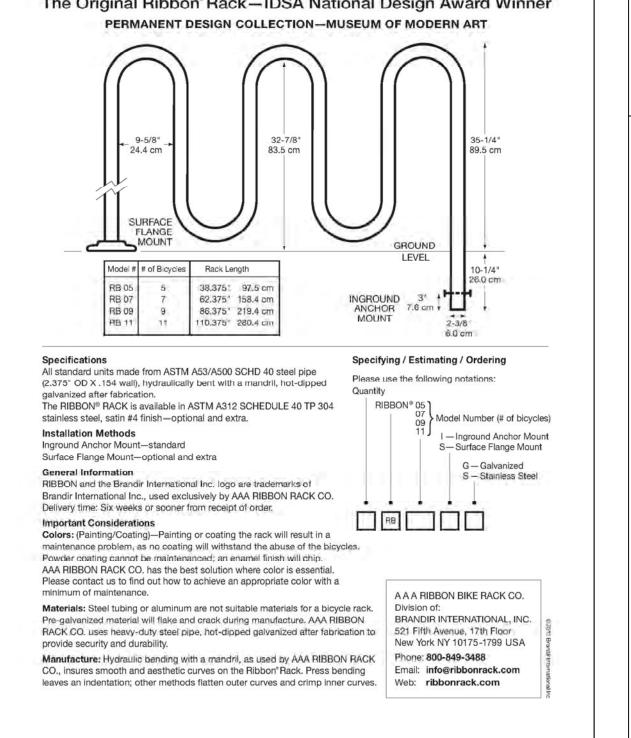


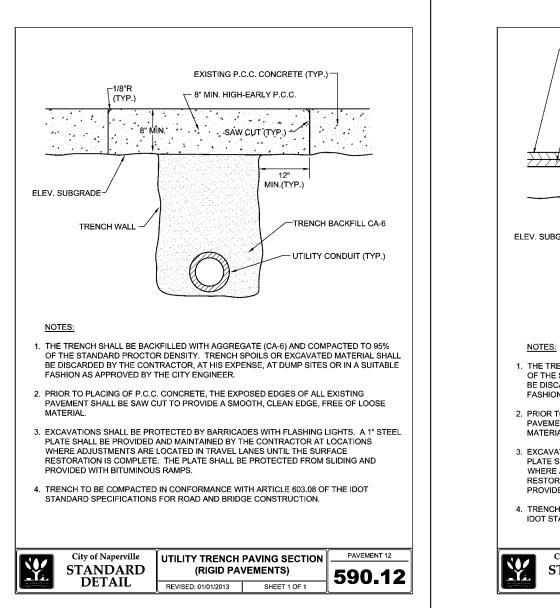


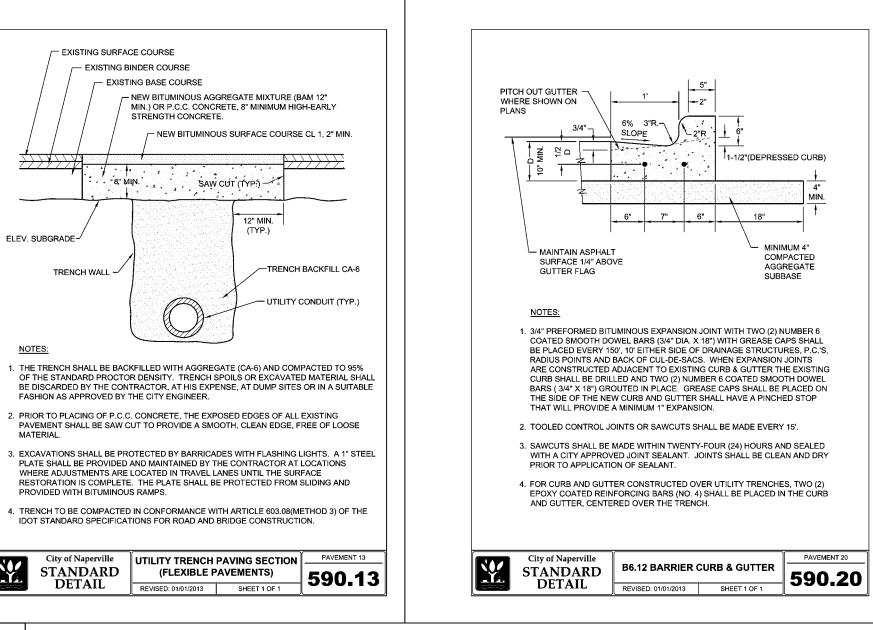


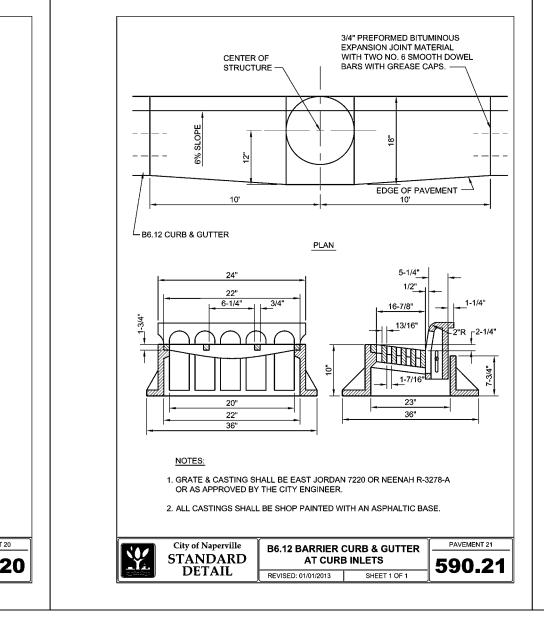




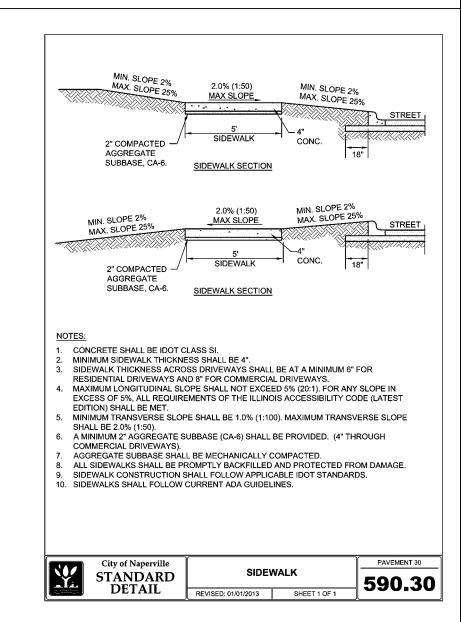


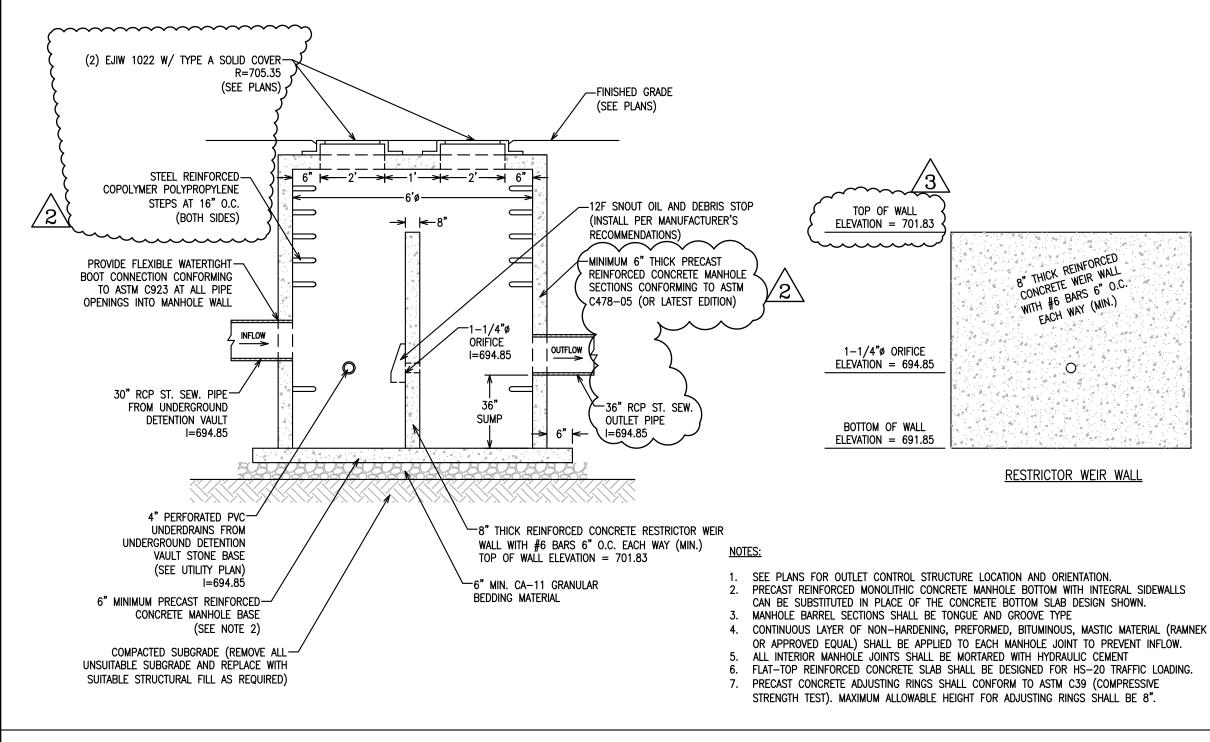


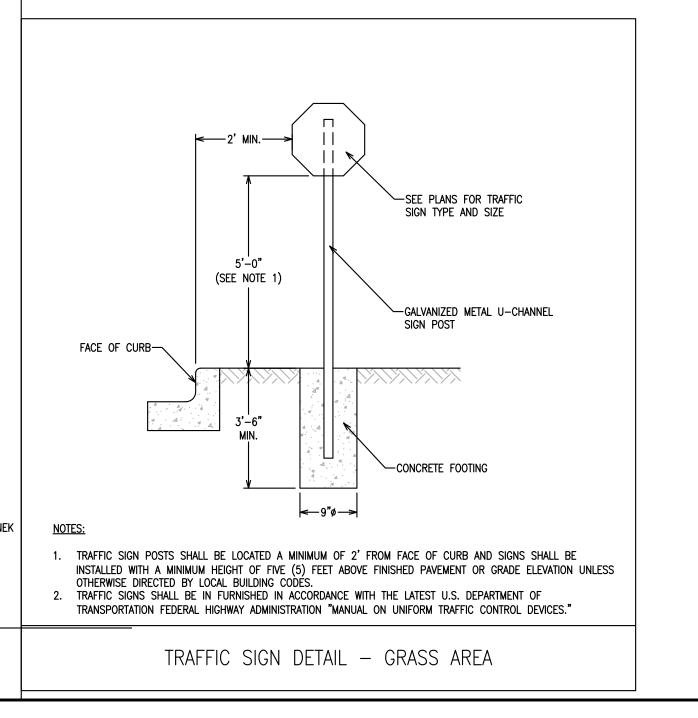




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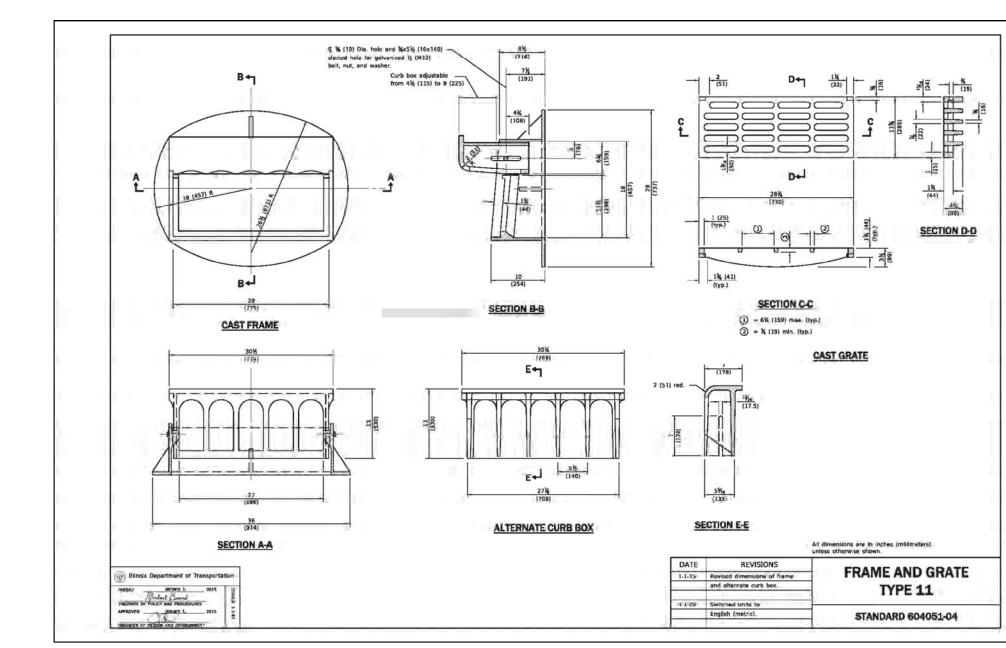
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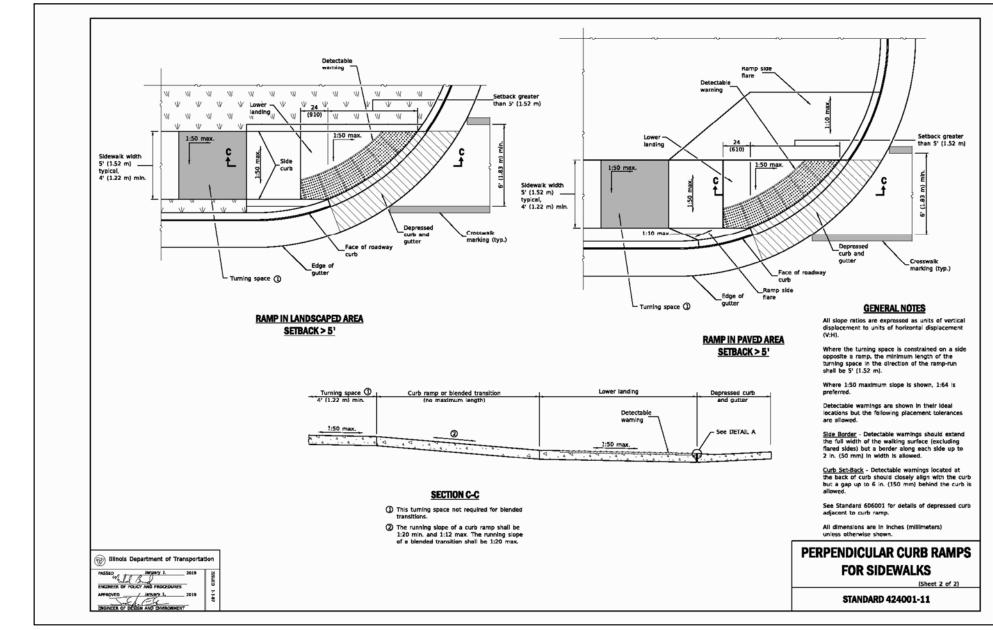
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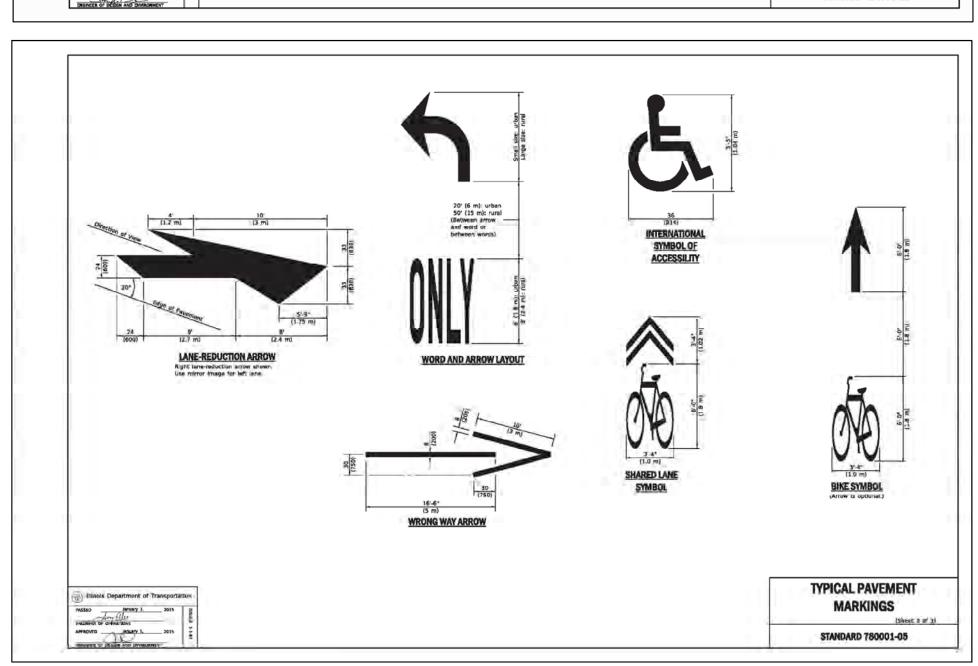
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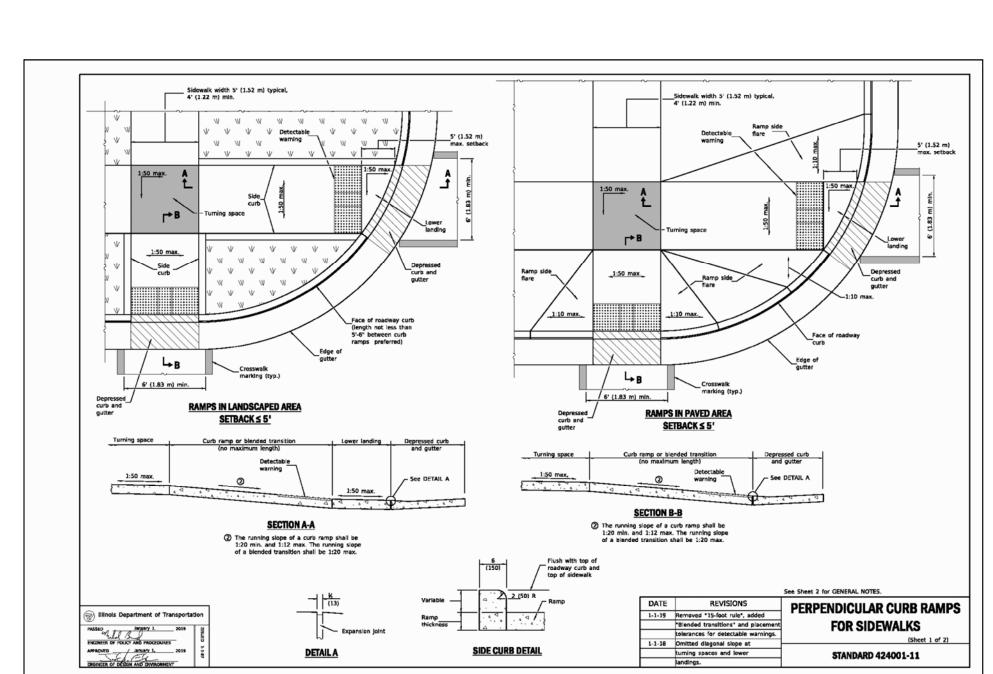
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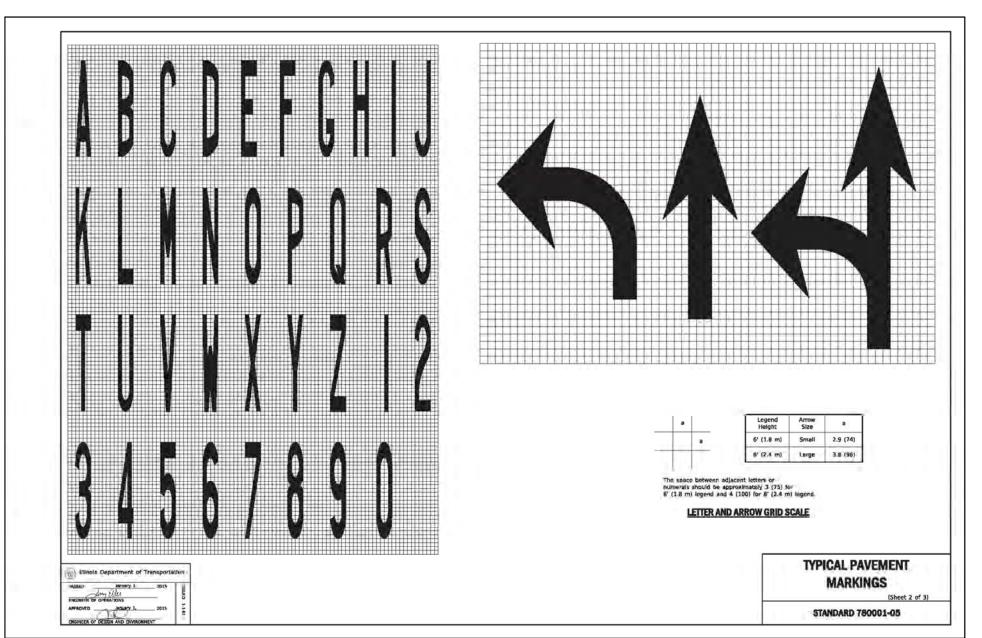
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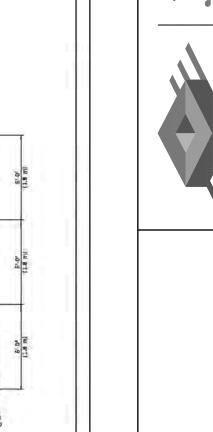












4 City Review
3 City Review
2 City Review
1 Permit Set

MARKET MEADOWS SHOPPING CENTER SHOREWOOD DEVELOPMENT GROUP LLC NAPERVILLE, ILLINOIS

DETAILS

HEFNE

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F805

N.T.S. C9.2

CITY OF NAPERVILLE PROJECT # 20-10000081

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(Transportation

PASSED SECURITY 1, 2015

ENGINEET DY CHEAT DONS

APPROVED AND OVEROMENT

DIGHTER OF OCCUPY AND OVEROMENT

LANE AND EDGE LINES

On multi-lane roads, the stop lines shall extend across all approach lanes and separate RXR symbols shall be placed adjacent to each other in each lane.

When the pavement marking symbol is used, a portion of the symbol should be located directly adjacent to the Advance Warning Sign (W10-1) as placed by Table 2C-4, Condition 8 of the MUTCD.

PAVEMENT MARKINGS AT

RAILROAD-HIGHWAY GRADE CROSSING

All dimensions are in inches (millimeters) unless otherwise shown:

TYPICAL PAVEMENT

MARKINGS

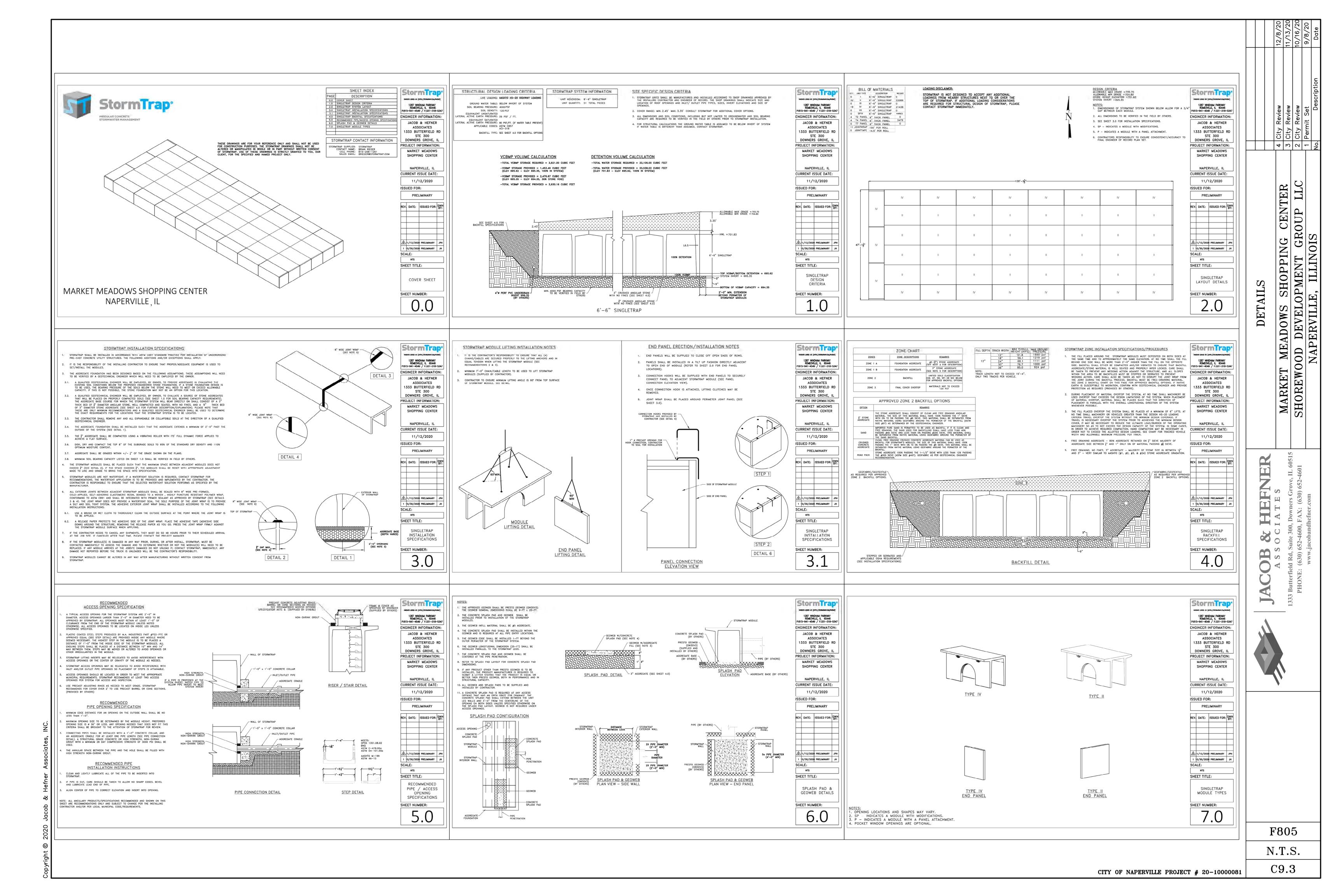
STANDARD 780001-05

(Sheet 1 of 3)

DATE REVISIONS

1-1-15 Added symbols, Revised blke symbol. Revised note for stop line at RR crossing.

1-1-14 Added blke symbol. Renamed "LANE DROP ARROW" detail to LANE-REDUCTION ARROW".



**GENERAL NOTES** 

THE MUNICIPALITY. IN CASE OF CONFLICT, THE MORE STRINGENT CODE SHALL TAKE PRECEDENCE.

ON THE PLANS.

BUT ARE CONSIDERED A PART OF THIS CONTRACT.

MUNICIPALITY FOR UTILITY LOCATIONS.

6. NOTIFICATION OF COMMENCING CONSTRUCTION

CONTRACTOR'S COST.

VARY FROM PLAN GRADE.

OWNER AND MUNICIPALITY.

WHATEVER NATURE DURING THAT PERIOD.

SUSPENSION OF WORK TO BE BORNE BY CONTRACTOR.

SHALL ACCESS BE DENIED TO PROPERTIES SURROUNDING THE SITE.

AND BRIDGE CONSTRUCTION, LATEST EDITION BY ILLINOIS DEPARTMENT OF TRANSPORTATION AND ALL

AMENDMENTS THERETO AND IN ACCORDANCE WITH THE LATEST EDITION OF THE SUBDIVISION REGULATIONS OF

ALL STORM SEWER, SANITARY SEWER AND WATER MAIN CONSTRUCTION SHALL CONFORM TO THE STANDARD

SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION, AND IN

ACCORDANCE WITH THE CURRENT SUBDIVISION REGULATIONS OF THE MUNICIPALITY UNLESS OTHERWISE NOTED

STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS,

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING THE UTILITY COMPANIES LOCATE THEIR FACILITIES IN

5. NO CONSTRUCTION PLAN SHALL BE USED FOR CONSTRUCTION UNLESS SPECIFICALLY MARKED "FOR

CONSTRUCTION PLANS, AND SUBSEQUENT DETAILS ARE ALL TO BE CONSIDERED AS PART OF THE CONTRACT.

INCIDENTAL ITEMS OR ACCESSORIES NECESSARY TO COMPLETE THIS WORK MAY NOT BE SPECIFICALLY NOTED

THE FIELD PRIOR TO CONSTRUCTION AND SHALL ALSO BE RESPONSIBLE FOR THE MAINTENANCE AND

PRESERVATION OF THESE FACILITIES. THE ENGINEER DOES NOT WARRANT THE LOCATION OF ANY EXISTING

UTILITIES SHOWN ON THE PLAN. THE CONTRACTOR SHALL CALL J.U.L.I.E. AT 1-800-892-0123, AND THE

CONSTRUCTION." PRIOR TO COMMENCEMENT OF CONSTRUCTION THE CONTRACTOR SHALL VERIFY ALL

DIMENSIONS AND CONDITIONS AFFECTING THE WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE. IN

ADDITION, THE CONTRACTOR MUST VERIFY THE ENGINEER'S LINE AND GRADE STAKES. IF THERE ARE ANY

DISCREPANCIES WITH WHAT IS SHOWN ON THE CONSTRUCTION PLANS, HE MUST IMMEDIATELY REPORT SAME

to engineer before doing any work. Otherwise the contractor assumes full responsibility. If

THE EVENT OF DISAGREEMENT BETWEEN THE CONSTRUCTION PLANS, SPECIFICATIONS AND/OR SPECIAL

DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTION FROM THE ENGINEER PRIOR TO PROCEEDING

WITH ANY PART OF THE WORK AFFECTED BY OMISSIONS OR DISCREPANCIES. FAILING TO SECURE SUCH

INSTRUCTION. THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS OWN RISK AND EXPENSE.

IN THE EVENT OF ANY DOUBT OR QUESTIONS ARISING WITH RESPECT TO THE TRUE MEANING OF THE

CONSTRUCTION PLANS OR SPECIFICATIONS, THE DECISION OF THE ENGINEER SHALL BE FINAL AND

THE CONTRACTOR SHALL NOTIFY THE OWNER AND/OR HIS REPRESENTATIVE AND THE AFFECTED

GOVERNMENTAL AGENCIES IN WRITING AT LEAST THREE FULL WORKING DAYS PRIOR TO COMMENCEMENT

OF CONSTRUCTION. IN ADDITION, THE CONTRACTOR SHALL NOTIFY AS NECESSARY, ALL TESTING

TO BE UNABLE TO VISIT SITE AND PERFORM TESTING WILL CAUSE CONTRACTOR TO SUSPEND OPERATION

(PERTAINING TO TESTING) UNTIL TESTING AGENCY CAN SCHEDULE TESTING OPERATIONS. COST OF

AGENCIES, EITHER MUNICIPALITY'S OR THE OWNER'S, SUFFICIENTLY IN ADVANCE OF CONSTRUCTION.

6.2. FAILURE OF CONTRACTOR TO ALLOW PROPER NOTIFICATION TIME WHICH RESULTS IN TESTING COMPANIES

7. ALL CONTRACTORS SHALL KEEP ACCESS AVAILABLE AT ALL TIMES FOR ALL TYPES OF TRAFFIC. AT NO TIME

8. ALL PROPOSED ELEVATIONS SHOWN ON THE PLANS ARE FINISHED SURFACE ELEVATIONS, UNLESS OTHERWISE

9. THE CONTRACTOR SHALL PRESERVE ALL CONSTRUCTION STAKES UNTIL THEY ARE NO LONGER NEEDED. ANY

10. ALL FRAMES AND LIDS FOR STORM AND SANITARY SEWER STRUCTURES ARE TO BE ADJUSTED TO MEET FINAL

FINISH GRADE. THIS ADJUSTMENT IS TO BE MADE BY THE SEWER CONTRACTOR AND THE COST IS TO BE

CONSIDERED INCIDENTAL. THESE ADJUSTMENTS TO FINISHED GRADE WILL NOT ALLEVIATE THE CONTRACTOR

FROM ANY ADDITIONAL ADJUSTMENTS AS REQUIRED BY THE COUNTY UPON FINAL INSPECTION OF THE

PROJECT. FINAL GRADES TO BE DETERMINED BY THE COUNTY AT THE TIME OF FINAL INSPECTION AND MAY

OPERATIONS AND NOT NOTED FOR DISPOSAL SHALL BE REMOVED AND RESET BY THE CONTRACTOR AT HIS

OWN EXPENSE AS DIRECTED BY THE ENGINEER. ANY DAMAGE TO THESE ITEMS SHALL BE REPAIRED OR

REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE TO THE SATISFACTION OF THE OWNER. ANY SIGNS

GUTTER, CULVERTS, ETC. SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR AT HIS OWN EXPENSE. HE

STORM SEWER SYSTEM OR SHALL BE RESTORED TO PROPER OPERATING CONDITION. A RECORD OF THE

LOCATION OF ALL FIELD TILE OR DRAIN PIPE ENCOUNTERED SHALL BE KEPT BY THE CONTRACTOR AND

TURNED OVER TO THE ENGINEER UPON COMPLETION OF THE PROJECT. THE COST OF THIS WORK SHALL BE

CONSIDERED AS INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED BY

4. ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE GUARANTEED BY THE CONTRACTOR AND HIS

SURETY FOR A PERIOD OF 12 MONTHS FROM THE DATE OF FINAL ACCEPTANCE OF THE PROJECT. THE

CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL DEFECTS IN MATERIALS AND WORKMANSHIP OF

OR HIS REPRESENTATIVE. FINAL PAYMENT WILL BE MADE AFTER ALL THE CONTRACTOR'S WORK HAS BEEN

FURNISH A LABOR, MATERIAL AND PERFORMANCE BOND AND INSURANCE IN THE AMOUNT REQUIRED BY THE

MUNICIPALITY GUARANTEEING COMPLETION OF THE WORK. THE UNDERWRITER SHALL BE ACCEPTABLE TO THE

RIGHTS-OF-WAY ARE SHOWN ON THE PLANS ACCORDING TO KNOWN AVAILABLE RECORDS. THE CONTRACTOR

SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION IN THE FIFLD OF THESE UTILITY LINES AND

THEIR PROTECTION FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS. IF EXISTING UTILITY LINES OF ANY

NATURE ARE ENCOUNTERED WHICH CONFLICT WITH LOCATIONS OF THE NEW CONSTRUCTION, JACOB AND

HEFNER ASSOCIATES, INC. IS RESPONSIBLE TO RESOLVE THE CONFLICT. JACOB AND HEFNER ASSOCIATES,

18. OWNER SHALL OBTAIN EASEMENTS AND PERMITS NECESSARY TO FACILITATE CONSTRUCTION OF THE

19. THE CONTRACTORS SHALL PLAN THEIR WORK BASED ON THEIR OWN BORINGS, EXPLORATIONS AND

20. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR SAFETY ON THE JOB IN ACCORDANCE WITH OSHA

21. THE CONTRACTOR SHALL COLLECT AND REMOVE ALL CONSTRUCTION DEBRIS, EXCESS MATERIALS, TRASH, OIL

AND GREASE RESIDUE, MACHINERY, TOOLS, STAKES OR LATH SET BY SURVEYORS FOR CONSTRUCTION, AND

OTHER MISCELLANEOUS ITEMS WHICH WERE NOT PRESENT PRIOR TO PROJECT COMMENCEMENT AT NO

ADDITIONAL EXPENSE TO THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ANY AND

ALL PERMITS NECESSARY FOR THE HAULING AND DISPOSAL REQUIRED FOR CLEAN—UP AS DIRECTED BY THE

AND THE SAFE MANAGEMENT OF TRAFFIC AND PEDESTRIANS WITHIN THE AREA OF CONSTRUCTION. ALL SUCH

DEVICES AND THEIR INSTALLATION SHALL CONFORM TO THE ILLINOIS MANUAL OF UNIFORM TRAFFIC CONTROL

DEVICES FOR STREET AND HIGHWAYS, LATEST EDITION AND IN CONFORMANCE WITH REGULATIONS OF THE

22. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROVIDE PROPER BARRICADING, WARNING DEVICES

23. NO UNDERGROUND WORK SHALL BE COVERED UNTIL IT HAS BEEN APPROVED BY THE COUNTY. APPROVAL TO PROCEED MUST BE OBTAINED FROM THE COUNTY PRIOR TO INSTALLING PAVEMENT BASE, BINDER, SURFACE

24. ALL EXISTING UTILITIES OR IMPROVEMENTS, INCLUDING WALKS, CURBS, PAVEMENT AND PARKWAYS DAMAGED

25. AT THE CLOSE OF EACH WORKING DAY AND AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL

26. TREES NOT MARKED FOR REMOVAL SHALL BE CONSIDERED AS DESIGNATED TO BE SAVED AND SHALL BE

27. LIMB PRUNING SHALL BE PERFORMED UNDER THE SUPERVISION OF AN APPROVED LANDSCAPE ARCHITECT

28. ALL LIMBS, BRANCHES, AND OTHER DEBRIS RESULTING FROM THIS WORK SHALL BE DISPOSED OF OFF-SITE

29. ALL CUTS OVER ONE-INCH IN DIAMETER SHALL BE MADE FLUSH WITH THE NEXT LARGE BRANCH. WOUNDS

30. ANY DEWATERING OF SEWER AND WATER TRENCHES AS WELL AS TEMPORARY SHEETING OR BRACING THAT

MAY BE REQUIRED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL NOT BE CONSIDERED.

EXTRA WORK. IN THE EVENT THAT SOFT MATERIALS WITH UNCONFINED COMPRESSIVE STRENGTH LESS THAN

0.5 TSF ARE ENCOUNTERED IN SEWER AND WATER MAIN CONSTRUCTION, THE CONTRACTOR SHALL (UPON

APPROVAL OF THE OWNER AND/OR ENGINEER) OVER-EXCAVATE TO A DEPTH OF AT LEAST ONE (1) FOOT

BELOW THE BOTTOM OF THE PIPE AND BACKFILL WITH COMPACTED CRUSHED STONE, PROPERLY FORMED TO

1. CONTRACTOR SHALL RECORD VIDEO OF THE WORK AREA PRIOR TO CONSTRUCTION FOR THE PURPOSE OF

AND SHALL BE UNDERTAKEN IN A TIMELY FASHION SO AS NOT TO INTERFERE WITH CONSTRUCTION.

OR REMOVED DURING CONSTRUCTION SHALL BE PROMPTLY RESTORED TO THEIR RESPECTIVE ORIGINAL

OBSERVATIONS TO DETERMINE SOIL CONDITIONS AT THE LOCATION OF THE PROPOSED WORK.

PROPOSED UTILITIES. THE CONTRACTOR, HOWEVER, SHALL FURNISH ALL REQUIRED BONDS AND EVIDENCE OF

15. BEFORE ACCEPTANCE BY THE OWNER AND FINAL PAYMENT, ALL WORK SHALL BE INSPECTED BY THE OWNER

16. UPON AWARDING OF THE CONTRACT AND WHEN REQUIRED BY THE MUNICIPALITY, THE CONTRACTOR SHALL

17. EASEMENTS FOR THE EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE, AND UTILITIES WITHIN PUBLIC

11. ANY EXISTING SIGNS, LIGHT STANDARDS AND UTILITY POLES WHICH INTERFERE WITH CONSTRUCTION

12. REMOVAL OF SPECIFIED ITEMS, INCLUDING BUT NOT LIMITED TO, PAVEMENT, SIDEWALK, CURB. CURB AND

13. ALL FIELD TILE ENCOUNTERED DURING CONSTRUCTION OPERATIONS SHALL BE CONNECTED TO THE PROPOSED

NOT REQUIRED TO BE RESET, SHALL BE DELIVERED TO THE RESPECTIVE OWNERS.

IS RESPONSIBLE FOR ANY PERMIT REQUIRED FOR SUCH DISPOSAL.

APPROVED AND ACCEPTED BY THE OWNER AND MUNICIPALITY.

INC. IS NOT RESPONSIBLE FOR THE COST OF CONSTRUCTION.

ENGINEER OR OWNER. BURNING ON THE SITE IS NOT PERMITTED.

AND PRIOR TO POURING ANY CONCRETE AFTER FORMS HAVE BEEN SET.

DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS.

OVER ONE-INCH IN DIAMETER SHALL BE PAINTED WITH AN APPROVED TREE PAINT.

PROTECTED UNDER THE PROVISIONS OF ARTICLE 201.05 OF THE STANDARD SPECIFICATIONS.

INSURANCE NECESSARY TO SECURE THESE PERMITS.

REGULATIONS.

MUNICIPALITY OR D.O.T.

BY THE CONTRACTOR AT HIS OWN EXPENSE.

FIT THE BOTTOM OF THE PIPE.

DOCUMENTING EXISTING CONDITIONS.

STAKES DESTROYED OR DISTURBED BY THE CONTRACTOR PRIOR TO THEIR USE SHALL BE RESET AT

MATERIAL SHALL CONSIST OF CRUSHED GRAVEL CONFORMING TO IDOT GRADATION CA-6.

CONSTRUCTION WATER AT HIS EXPENSE.

GRASS ACCEPTABLE TO THE ENGINEER HAS BEEN DEVELOPED.

BE PREPARED BY A LICENSED PROFESSIONAL LAND SURVEYOR.

32. TRENCH BACKFILL WILL BE REQUIRED TO THE FULL DEPTH ABOVE ALL UNDERGROUND UTILITIES WITHIN TWO

33. WHERE SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER, EXISTING DRAINAGE STRUCTURES AND

34. HYDRANTS SHALL NOT BE FLUSHED DIRECTLY ONTO THE ROAD SUBGRADES. WHEREVER POSSIBLE, HOSES

35. AFTER THE STORM SEWER SYSTEM HAS BEEN CONSTRUCTED THE CONTRACTOR SHALL PLACE EROSION

CONTROL AT LOCATIONS SHOWN ON THE PLANS OR AS SELECTED IN THE FIELD BY THE ENGINEER. INLET

INSTALLATION IS COMPLETE. THE PURPOSE OF THE EROSION CONTROL WILL BE TO MINIMIZE THE AMOUNT OF

36. EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH ILLINOIS URBAN MANUAL AND

37. UPON PROJECT COMPLETION, THE CONTRACTOR SHALL PROVIDE FINAL RECORD DRAWINGS TO THE OWNER

SHALL BE MAINTAINED BY THE CONTRACTOR AND SHALL REMAIN IN PLACE UNTIL A SUITABLE GROWTH OF

AND FNGINFER FOR REVIEW PRIOR TO ANY REQUEST FOR FINAL INSPECTION. AT A MINIMUM. THE RECORD

DRAWINGS SHALL INDICATE THE FINAL LOCATION AND LAYOUT OF ALL SITE IMPROVEMENTS, INCLUDING BUT

NOT LIMITED TO, VERIFICATION OF ALL BUILDING PAD AND TOP OF FOUNDATION ELEVATIONS, UTILITY RIM AND

INVERT ELEVATIONS, SPOT GRADE ELEVATIONS, LOCATIONS OF ALL WATER SERVICE B-BOXES, SANITARY

SEWER SERVICES. AND STORM SEWER SERVICES AND SHALL INCORPORATE ALL FIELD DESIGN CHANGES

APPROVED BY THE OWNER, ENGINEER AND/OR PROJECT GOVERNING AUTHORITY. RECORD DRAWINGS SHALL

PROTECTION (INLET BASKETS) SHALL BE INSTALLED IN EACH STRUCTURE AS SOON AS THE STRUCTURE

SILTATION, WHICH NORMALLY WOULD ENTER THE STORM SEWER SYSTEM FROM ADJACENT AND/OR UPSTREAM

FEET OF PROPOSED OR EXISTING PAVEMENTS, UTILITIES, BUILDINGS, AND SIDEWALKS, THE TRENCH BACKFILL

SHALL BE DONE IN ACCORDANCE WITH IDOT STANDARD SPECIFICATIONS. THE TRENCH BACKFILL AND BEDDING

SYSTEMS SHALL BE CLEANED OF DEBRIS AND PATCHED AS NECESSARY TO ASSURE INTEGRITY OF THE

SHALL BE USED TO DIRECT THE WATER INTO STORM SEWERS. DAMAGE TO THE ROAD SUBGRADE OR LOT

AREAS DUE TO EXCESSIVE WATER SATURATION AND/OR FROSION FROM HYDRANT FLUSHING OR FROM LEAKS

IN THE WATER DISTRIBUTION SYSTEM. WILL BE THE RESPONSIBILITY OF THE CONTRACTOR FLUSHING OR USING

THE HYDRANT TO MAKE ALL NECESSARY REPAIRS AT HIS EXPENSE. THE CONTRACTOR SHALL PROVIDE ALL

A. PRIOR TO THE CONSTRUCTION OF CURB AND GUTTER AND PLACEMENT OF THE BASE MATERIAL. THE

B. THE CURBS SHALL BE BACKFILLED AFTER CONSTRUCTION AND PRIOR TO THE PLACEMENT OF THE BASE

D. DEPRESSED CURBS FOR DRIVEWAYS AND HANDICAPPED RAMPS SHALL BE INSTALLED PER THE PLANS

A. THE PAVEMENT MATERIALS SHALL BE AS DETAILED ON THE ENGINEERING PLANS. DEPTHS SPECIFIED

A. REPAIR ANY BASE COURSE AND BINDER COURSE FAILURES PRIOR TO THE INSTALLATION OF THE FINAL

B. SWEEP CLEAN THE BINDER COURSE PRIOR TO THE INSTALLATION OF THE FINAL BITUMINOUS CONCRETE

D. PROVIDE CONSTRUCTION, EXPANSION AND CONTRACTION JOINTS FOR CURB AND GUTTER AND P.C.C.

E. REMOVE ALL EXCESS MATERIALS AND DEBRIS. DISPOSE OF MATERIALS OFF-SITE AT NO ADDITIONAL COST

A. PRIOR TO THE PLACEMENT OF THE BASE COURSE. THE SUBGRADE MUST BE PROOF ROLLED AND

B. PRIOR TO PLACEMENT OF THE BITUMINOUS CONCRETE SURFACE COURSE, THE CONTRACTOR SHALL

C. FINAL ACCEPTANCE OF THE TOTAL PAVEMENT INSTALLATION SHALL BE SUBJECT TO THE TESTING AND

A. CURB AND GUTTER AND BASE COURSE SHALL BE MEASURED IN THE FIELD BY THE CONTRACTOR. THE

B. WHEN REQUESTED BY THE OWNER, DOCUMENTATION FOR THE INSTALLED BASE COURSE, BITUMINOUS

7. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROVIDE PROPER BARRICADING. WARNING DEVICES

AND SAFE TRAFFIC MANAGEMENT WITHIN THE AREA OF CONSTRUCTION. ALL SUCH DEVICES AND THEIR

INSTALLATION SHALL CONFORM TO THE ILLINOIS "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR

STREETS AND HIGHWAYS," LATEST EDITION. THIS SHALL BE IN ACCORDANCE WITH THE SUBDIVISION CONTROL

A. AS MANY LONGITUDINAL JOINTS AS PRACTICAL SHALL BE CLOSED AT THE END OF EACH DAY OF PAVING.

JOINT CONSTRUCTION COMPLETION THE CONTRACTOR SHALL PERFORM THE FOLLOWING.

2. APPLY TACK COAT TO THE REHEATED JOINT PRIOR TO ASPHALT PLACEMENT.

1. HEAT THE COLD SIDE JOINT TO 200°F EITHER BY MEANS OF A HAND TORCH OR AN

INFRARED HEATER. THE CONTRACTOR SHALL AVOID BURNING THE ASPHALT DURING REHEATING.

A TACK COAT SHALL BE APPLIED TO THE "COLD" SIDE OF THE LONGITUDINAL JOINT PRIOR TO THE

CONCRETE BINDER AND SURFACE COURSE, SHALL BE SUBMITTED TO THE ENGINEER FOR VERIFICATION

AS REQUIRED BY THE MUNICIPALITY. WHERE DIRECTED, THE CONTRACTOR SHALL OBTAIN SPECIMENS OF

THE BITUMINOUS CONCRETE WITH A CORE DRILL TO CONFIRM THE PLAN THICKNESS. DEFICIENCIES IN

THICKNESS SHALL BE ADJUSTED BY THE METHOD DESCRIBED IN THE "STANDARD SPECIFICATIONS FOR

QUANTITIES SHALL BE SUBMITTED TO THE ENGINEER FOR VERIFICATION WHEN REQUESTED BY THE

OBTAIN SPECIMENS OF THE BINDER COURSE WITH A CORE DRILL WHERE DIRECTED AND AS REQUIRED.

THICKNESS VERIFICATION WILL BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND

INSPECTED FOR UNSUITABLE LOCATIONS. IF UNSUITABLE SUBGRADE IS ENCOUNTERED, IT SHALL BE

REMOVED AND REPLACED WITH GRANULAR MATERIAL APPROVED BY THE OWNER OR HIS REPRESENTATIVE.

SURFACE COURSE. ANY DAMAGE TO THE BINDER COURSE SHALL BE REPAIRED BY THE CONTRACTORS AT

A. THE TYPE OF THE CURB AND GUTTER SHALL BE AS DETAILED ON THE ENGINEERING PLANS.

C. THE STONE COST UNDER THE CURB AND GUTTER SHALL BE CONSIDERED INCIDENTAL.

SHALL BE CONSIDERED THE MINIMUM COMPACTED THICKNESS.

SIDEWALK PER IDOT STANDARDS AND MUNICIPAL STANDARDS.

THE SUBGRADE SHALL HAVE A MINIMUM IBR VALUE OF 3.0.

TWO FEET BEYOND THE BACK OF CURB.

2. CURB AND GUTTER

PAVEMENT

4. GENERAL

AND IDOT STANDARDS.

THE PAVING CONTRACTOR SHALL:

to the owner.

TESTING AND FINAL ACCEPTANCE

BRIDGE CONSTRUCTION."

6. METHOD OF MEASUREMENT

VERIFICATION REQUIREMENTS CITED ABOVE.

ROAD AND BRIDGE CONSTRUCTION."

PLACEMENT OF THE HOT SIDE MAT.

9. LONGITUDINAL JOINT DENSITY SPECIFICATIONS

ORDINANCE OF THE MUNICIPALITY.

LONGITUDINAL JOINT CONSTRUCTION

BITUMINOUS CONCRETE SURFACE COURSE.

NO ADDITIONAL COST TO THE OWNER.

STREETS SHALL BE FINE GRADED TO WITHIN 0.05 FEET OF FINAL SUBGRADE ELEVATION, TO A POINT

THE JOINTS SHALL BE PUSH-ON JOINTS CONFORMING TO ANSI A-21.11 (AWWA C-111) AND ALL RETAINING GLANDS SHALL BE SET SCREW OR MEGA-LUG TYPE. WATER MAIN FITTINGS SHALL BE OF DUCTILE IRON WITH CEMENT MORTAR LINING AND SEAL COATING WITH PUSH-ON JOINTS, CONFORMING TO

THRUST BLOCKING OR RESTRAINED JOINTS SHALL BE INSTALLED ON ALL WATER MAINS AT ALL BENDS, TEES, ELBOWS, ETC.

4. DISTRIBUTION SYSTEM VALVES SHALL BE RESILIENT SEAT VALVE, CONFORMING TO AWWA C-509, LATEST STANDARDS AND SHALL BE APPROVED BY THE MUNICIPALITY. EACH VALVE SHALL BE INSTALLED IN A VALVE VAULT OR BOX OF SIZE SHOWN ON THE PLANS. THE LIDS SHALL BE NEENAH R-1713-B OR APPROVED EQUAL. LETTERING ON THE CAST IRON FRAME AND LID SHALL INDICATE "WATER" AND THE MUNICIPALITY NAME.

ALL WATER MAINS SHALL BE PRESSURE TESTED, FLUSHED AND DISINFECTED IN ACCORDANCE WITH AWWA

7. FIRE HYDRANTS SHALL BE INSTALLED WITH AN AUXILIARY VALVE WITH CAST IRON VALVE BOX. FIRE

OR BETWEEN THE CURB STOP AND THE BUILDING.

11. WATER SERVICE BOXES SHALL BE OF SUFFICIENT LENGTH TO PERMIT THE TOP TO BE INSTALLED FLUSH WITH THE FINISHED GRADE. EACH SERVICE BOX SHALL BE PROVIDED WITH A CAP WITH THE WORD

a) WATER MAINS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR

b) water mains may be laid closer than 10 feet to a sewer line when: 1) LOCAL CONDITIONS PREVENT A LATERAL SEPARATION OF 10 FEET 2) THE WATER MAIN INVERT IS AT LEAST 18 INCHES ABOVE THE CROWN OF THE SEWER

3) THE WATER MAIN IS IN A SEPARATE TRENCH. c) BOTH THE WATER MAIN AND DRAIN OR SEWER SHALL BE CONSTRUCTED OF PIPE EQUIVALENT TO WATER MAIN STANDARDS OF CONSTRUCTION WHEN IT IS IMPOSSIBLE TO MEET CONDITION

(a) OR (b) ABOVE. THE DRAIN OR SEWER SHALL BE PRESSURE TESTED TO THE MAXIMUM EXPECTED SURCHARGE HEAD BEFORE BACKFILLING.

a) A WATER MAIN SHALL BE LAID SO THAT ITS INVERT IS 18 INCHES ABOVE THE CROWN OF THE DRAIN OR SEWER. WHENEVER WATER MAINS CROSS STORM SEWERS. SANITARY SEWERS OR SEWER SERVICE CONNECTIONS. THE VERTICAL SEPARATION SHALL BE MAINTAINED FOR THAT PORTION OF THE WATER MAIN LOCATED WITHIN 10 FEET HORIZONTALLY OF ANY SEWER OR BE CROSSED WITH JOINTS EQUIDISTANT FROM THE SEWER OR DRAIN.

b) IF IT IS IMPOSSIBLE TO OBTAIN THE PROPER VERTICAL SEPARATION AS DESCRIBED IN (a) OR THE WATER MAIN PASSES UNDER A SEWER OR DRAIN, THEN ONE OF THE FOLLOWING METHODS SHALL BE FOLLOWED:

PLANS AND AS PER THE SPECIAL CROSSING DETAIL SHOWN ON THE DETAIL SHEET. c) A VERTICAL SEPARATION OF 18 INCHES BETWEEN THE INVERT OF THE SEWER OR DRAIN AND THE CROWN OF THE WATER MAIN SHALL BE MAINTAINED WHERE A WATER MAIN CROSSES UNDER SEWER. SUPPORT THE SEWER OR DRAIN LINES TO PREVENT SETTLING AND BREAKING

d) CONSTRUCTION SHALL EXTEND ON EACH SIDE OF THE CROSSING UNTIL THE NORMAL DISTANCE

MATERIAL SHALL BE IN CONFORMANCE WITH THE MUNICIPAL REGULATIONS. ANSI A21.10 (AWWA C-110).

5. A MINIMUM DEPTH OF COVER OF 6' SHALL BE MAINTAINED OVER THE WATER LINES.

SPECIFICATIONS. EACH VALVE SECTION SHALL BE PRESSURE TESTED FOR A MINIMUM OF FOUR HOURS. THE ONLY ALLOWABLE LEAKAGE IS AS PREDETERMINED BY THE STANDARD SPECIFICATIONS FOR SEWER AND WATER MAIN CONSTRUCTION IN ILLINOIS. AT NO TIME IS THERE TO BE ANY VISIBLE LEAKAGE FROM

HYDRANTS SHALL CONFORM TO MEET ALL REQUIREMENTS DESCRIBED IN THE SUBDIVISION CONTROL ORDINANCE OF THE MUNICIPALITY. THE HYDRANT SHALL FACE THE ROADWAY. THE FIRE HYDRANTS SHALL BE PAINTED PER THE MUNICIPALITY. THE VALVE BOX LID SHALL HAVE WORD "WATER" EMBOSSED ON THE

8. MAXIMUM DEFLECTION AT PIPE JOINTS SHALL BE IN ACCORDANCE WITH CURRENT MANUFACTURER'S RECOMMENDATIONS AND AWWA SPECIFICATIONS.

9. BEDDING FOR ALL NEW WATER MAINS SHALL CONSIST OF A MINIMUM OF FOUR INCHES OF COMPACTED CRUSHED GRAVEL OR STONE.

10. WATER SERVICE LINES 2" IN DIAMETER OR SMALLER SHALL BE TYPE 'K' COPPER TUBING CONFORMING TO ASTM B88-58. NO COUPLINGS SHALL BE PERMITTED BETWEEN THE CORPORATION AND CURB STOPS

"WATER" CAST IN THE TOP.

12. IEPA WATER MAIN PROTECTION

A. WATER MAINS:

PROPOSED DRAIN, STORM SEWER, SANITARY SEWER OR SEWER SERVICES CONNECTION.

DRAIN CROSSED. A LENGTH OF WATER MAIN PIPE SHALL BE CENTERED OVER THE SEWER TO

1) THE STORM DRAIN SHALL BE CONSTRUCTED OF "O" RING JOINTS AND SANITARY SEWER

SHALL BE CONSTRUCTED WITH PIPE EQUIVALENT TO WATER MAIN STANDARDS. 2) THE WATER MAIN MAY BE ENCASED IN A WATERTIGHT CARRIER PIPE AS INDICATED ON THE

FROM THE WATER MAIN TO THE SEWER OR DRAIN LINE IS AT LEAST 10 FEET.

## **EARTHWORK**

## 1. TOPSOIL EXCAVATION

A. TOPSOIL, ORGANIC MATERIAL, OR ANY OTHER UNSUITABLE MATERIALS SHALL BE REMOVED FROM AREAS REQUIRING STRUCTURAL FILL.

B. PLACEMENT OF EXCAVATED MATERIAL SHALL BE DESIGNATED BY THE OWNER FOR FUTURE USE WITHIN AREAS TO BE LANDSCAPED OR AS FILL IN THE AREAS NOT REQUIRING STRUCTURAL FILL MATERIAL.

C. EXCESS MATERIALS NOT UTILIZED AS FILL OR NOT STOCKPILED FOR FUTURE LANDSCAPING, SHALL BE COMPLETELY REMOVED FROM THE CONSTRUCTION SITE AND DISPOSED OF OFF-SITE BY THE

#### EARTH EXCAVATION

A. EXCAVATION OF EARTH AND OTHER MATERIALS, WHICH ARE SUITABLE FOR USE AS STRUCTURAL FILL SHALL BE WITHIN A TOLERANCE OF 0.05 FEET FOR PADS AND PAVEMENT, AT 0.1 FEET +/- OF THE PLAN SUBGRADE ELEVATIONS. THE +/- TOLERANCE WITHIN PAVEMENT AREAS UTILIZING EARTH MATERIALS SHALL "BALANCE" AS PART OF THE FINE GRADING OPERATION.

B. PLACEMENT OF EARTH AND OTHER SUITABLE MATERIALS SHALL BE PLACED WITHIN THOSE AREAS REQUIRING STRUCTURAL FILL TO ACHIEVE THE PLAN SUBGRADE ELEVATIONS WITHIN A TOLERANCE OF 0.1 FEET +/-. THE FILL MATERIAL SHALL BE PLACED IN LOOSE LIFTS, NOT EXCEED EIGHT INCHES IN THICKNESS. THE WATER CONTENT SHALL BE ADJUSTED IN ORDER TO ACHIEVE THE REQUIRED. COMPACTION. EARTH MATERIAL MAY BE PLACED WITHIN THOSE AREAS OF THE SITE NOT REQUIRING STRUCTURAL FILL. WITHIN THE PLAN SUBGRADE ELEVATION. IN AREAS REQUIRING STRUCTURAL FILL. THE EARTH MATERIAL SHALL NOT BE PLACED OVER TOPSOIL OR OTHER UNSUITABLE MATERIALS. THE STRUCTURAL SUBGRADE AREA SHALL EXTEND TO THE ZONE OF INFLUENCE IN ALL FILL AREAS.

C. COMPACTION OF THE EARTH AND OTHER SUITABLE MATERIALS SHALL BE TO A MINIMUM OF 95% OF THE MODIFIED PROCTOR DRY DENSITY. THIS INCLUDES AREAS WITHIN PROPOSED PAVEMENT AND BUILDING PAD LOCATIONS, SIDEWALKS, ETC. IN NON-STRUCTURAL FILL AREAS, 90% TO 95% OF THE MODIFIED PROCTOR DRY DENSITY IS REQUIRED

### UNSUITABLE MATERIAL

B. LONGITUDINAL JOINT CONSTRUCTION SHALL BE COMPLETED BEFORE THE "COLD" SIDE OF THE JOINT FALLS BELOW 200°F. A. UNSUITABLE MATERIAL SHALL BE CONSIDERED AS MATERIAL THAT IS NOT SUITABLE FOR THE SUPPORT OF PAVEMENT AND BUILDING CONSTRUCTION. IF IT IS ENCOUNTERED BELOW NORMAL TOPSOIL DEPTHS C. IN THE FVENT THE TEMPERATURE OF THE "COLD" SIDE OF A JOINT FALLS BELOW 200'F PRIOR TO AND THE PROPOSED SUBGRADE ELEVATION, IT SHALL BE REMOVED AND REPLACED WITH SELECT

#### TO WHAT EXTENT, SHALL BE MADE BY A SOILS ENGINEER WITH THE CONCURRENCE OF THE OWNER. 4. THE GRADING CONTRACTORS RESPONSIBILITIES

A. MAINTAIN POSITIVE DRAINAGE AT ALL TIMES DURING THE COURSE OF CONSTRUCTION AND PREVENT STORM WATER FROM RUNNING INTO OR STANDING IN EXCAVATED AREAS.

GRANULAR MATERIAL APPROVED BY THE SOILS ENGINEER. THE DECISION TO REMOVE SAID MATERIAL AND

B. SPREAD AND COMPACT UNIFORMLY ALL EXCESS TRENCH SPOIL, AS SPECIFIED, AFTER COMPLETION OF THE UNDERGROUND IMPROVEMENTS.

C. SCARIFY AND COMPACT THE UPPER 12 INCHES OF THE SUITABLE SUBGRADE MATERIAL, AS SPECIFIED, IN ALL AREAS THAT MAY BE SOFT DUE TO EXCESS MOISTURE CONTENT. THIS APPLIES TO CUT AREAS AS WELL AS FILL AREAS.

D. PROVIDE ADDITIONAL WATER TO DRY MATERIAL TO ADJUST THE MOISTURE CONTENT FOR THE PURPOSE OF ACHIEVING THE SPECIFIED COMPACTION.

E. BACKFILL THE CURB AND GUTTER AFTER CONSTRUCTION AND PRIOR TO THE PLACEMENT OF THE BASE

F. ACCOUNTABLE FOR IMPLEMENTATION OF THE "SOIL EROSION AND SEDIMENTATION CONTROL MEASURES" AS DESCRIBED ON THE PLANS. ALL CONTRACTORS SHALL COMPLY WITH THE SWPPP AND NPDES REQUIREMENTS.

G. PERFORM LIME STABILIZATION OF THE SUBGRADE MATERIAL IF REQUIRED BY THE SOILS ENGINEER.

#### 5. TESTING AND FINAL ACCEPTANCE

COURSE MATERIAL.

A. THE CONTRACTOR SHALL PROVIDE, AS A MINIMUM, A TANDEM AXLE TRUCK LOADED TO 14 TONS FOR PROOF ROLLING THE PAVEMENT SUBGRADE. PROOF ROLLING SHALL BE PERFORMED PRIOR TO THE PLACEMENT OF THE CURB AND GUTTER AND BASE MATERIAL. THIS SHALL BE WITNESSED AND APPROVED BY THE MUNICIPAL ENGINEER AND OWNER.

B. ANY UNSUITABLE AREA ENCOUNTERED AS A RESULT OF PROOF ROLLING, SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL APPROVED BY THE SOILS CONSULTANT. PROOF ROLLING SHALL BE PERFORMED UNTIL THE SUBGRADE IS APPROVED BY THE MUNICIPAL ENGINEER, OWNER AND SOILS

C. THE WORK AREAS SHALL BE POSITIVELY DRAINED DURING CONSTRUCTION. FINAL GRADES SHALL BE PROTECTED AGAINST DAMAGE FROM EROSION, SEDIMENTATION AND TRAFFIC.

#### D. THE CONTRACTOR SHALL OFFSET SURFACE COURSE JOINTS FROM BINDER COURSE JOINTS, WHEREVER PRACTICABLE

A. COMPLETED LONGITUDINAL JOINTS SHALL BE ASSESSED BASED ON SECTION 1030 OF THE STANDARD SPECIFICATIONS AND THE "HOT MIX ASPHALT - DENSITY TESTING OF LONGITUDINAL JOINTS" (BDE) AS

LONGITUDINAL JOINT DENSITY TESTING SHALL BE PERFORMED AT EACH RANDOM DENSITY TEST LOCATION. LONGITUDINAL JOINT TESTING SHALL BE LOCATED AT A DISTANCE EQUAL TO THE LIFT THICKNESS OR A MINIMUM OF TWO INCHES FROM EACH PAVEMENT EDGE; I.E. FOR A FOUR INCH LIFT, THE NEAR EDGE OF THE DENSITY GAUGE OR CORE BARREL SHALL BE WITHIN FOUR INCHES FROM THE EDGE OF PAVEMENT. LONGITUDINAL JOINT DENSITY TESTING SHALL BE PERFORMED USING EITHER A CORRELATED NUCLEAR GAUGE OR CORES.

1. CONFINED EDGE: EACH CONFINED EDGE DENSITY TEST SHALL BE REPRESENTED BY A ONE MINUTE NUCLEAR DENSITY READING OR A CORE DENSITY. THE TESTING SHALL BE INCLUDED IN THE AVERAGE OF DENSITY READINGS OR CORE DENSITIES TAKEN ACROSS THE MAT, WHICH REPRESENTS THE

2. UNCONFINED EDGE: EACH UNCONFINED EDGE JOINT DENSITY TEST SHALL BE REPRESENTED BY AN AVERAGE OF THREE, ONE MINUTE DENSITY READINGS OR A SINGLE CORE DENSITY AT THE GIVEN DENSITY TEST LOCATION. THE TESTING SHALL MEET THE DENSITY REQUIREMENTS SPECIFIED HEREIN. THE THREE, ONE MINUTE READINGS SHALL BE SPACED TEN FEET APART LONGITUDINALLY ALONG THE UNCONFINED PAVEMENT EDGE AND CENTERED AT THE RANDOM DENSITY TEST LOCATION.

#### DENSITY CONTROL LIMITS TABLE

XTURE COMPOSITION	PARAMETER	INDIVIDUAL TEST (INCLUDES CONFINED EDGES)	UNCONFINED EDGE JOINT DENSITY MINIMUM
IL-9.5, IL12.5	Ndesign >= 90	92.0-96.0%	90%
-9.5, IL9.5L, IL-12.5	Ndesign < 90	92.5-97.4%	90%
IL-19.0, IL-25.0	Ndesign >= 90	93.0-96.0%	90%
9.0, IL-19.0L, IL-25.0	Ndesign < 90	93.0-97.4%	90%
SMA	Ndesign = 50 & 80	93.5-97.4%	91%
ALL OTHER	Ndesign = 30	93.0-97.4%	90%

#### SOIL EROSION AND SEDIMENT CONTROL

**SANITARY SEWER** 

UNLESS NOTED OTHERWISE, ALL SANITARY SEWER SHALL BE RING-TITE PVC (POLYVINYL CHLORIDE) PLASTIC

PIPE. ALL PIPE SHALL CONFORM TO ASTM D-3034 WITH ELASTOMERIC RUBBER RING GASKÉT JOINTS

CONFORMING TO ASTM D3212. THE STANDARD DIMENSION RATIO (SDR) FOR SANITARY PIPE SHALL BE 26.

WHERE SPECIFIED, PVC SDR 21 SANITARY SEWER SHALL BE RING-TITE PVC (POLYVINYL CHLORIDE) PLASTIC

PIPE, CONFORMING TO ASTM D-2241 WITH ELASTOMERIC RUBBER RING GASKET JOINTS CONFORMING TO

ASTM D3139. THE PVC DR18 SANITARY SEWER SHALL CONFORM TO AWWA C900/C905, WITH RUBBER

WHERE SANITARY SEWER PIPE IS NOTED AS PVC C900, THE PIPE SHALL BE IN ACCORDANCE WITH AMERICAN

4. ALL FLOOR DRAINS SHALL CONNECT TO THE SANITARY SEWER. CONNECTIONS TO EXISTING SANITARY SEWER

5. ALL UNSUITABLE MATERIAL SHALL BE REMOVED BELOW THE PROPOSED SANITARY SEWER AND REPLACED WITH

PIPE BEDDING SHALL CONSIST OF A MINIMUM OF FOUR INCHES OF COMPACTED CRUSHED GRAVEL OR

STONE FOR ALL SANITARY SEWERS. SANITARY SEWER PIPE SHALL HAVE TAMPED CRUSHED GRAVEL OR STONE

COVER ABOVE THE TOP OF PIPE, TO A MINIMUM OF 12 INCHES. THE BEDDING AND TRENCH BACKFILL

8. WATER MAINS SHALL BE SEPARATED FROM SANITARY SEWERS AND STORM SEWERS IN ACCORDANCE WITH

10. THE TESTING OF THE PIPE STRAIGHTNESS AND FIELD TESTING, SHALL BE IN ACCORDANCE WITH THE

11. SANITARY SEWER MANHOLES SHALL BE FOUR FOOT INNER DIAMETER, PRECAST REINFORCED CONCRETE RINGS OR MONOLITHIC CONCRETE, CONFORMING TO ASTM C 478. THE STRUCTURE SHALL HAVE AN ECCENTRIC CONE

12. ALL SANITARY SEWER MANHOLE LIDS SHALL BE NEENAH R-1772-B OR APPROVED EQUAL. THE LIDS SHALL

13. ALL MANHOLE JOINTS SHALL BE SEALED WITH "O" RING JOINTS. NO MORE THAN EIGHT INCHES OF PRECAST

14. DROP MANHOLE ASSEMBLIES SHALL BE PROVIDED AT THE JUNCTION OF SANITARY SEWERS WHERE THE

15. INSPECTION OF MANHOLES: ALL MANHOLES SHALL BE THOROUGHLY CLEANED OF DIRT AND DEBRIS. ALL

16. TESTING FOR ACCEPTANCE OF SANITARY SEWERS AND MANHOLES, INCLUDING SERVICE LINES, SHALL INCLUDE

17. TELEVISION TESTING OF ALL SANITARY SEWERS SHALL BE TELEVISED. A COPY OF THE RECORDING AND A

THE LOCATION OF TELEVISION INSPECTION SHALL BE DESIGNATED BY THE MUNICIPAL ENGINEER.

LOW PRESSURE AIR TEST AND DEFLECTION TEST PER STANDARD SPECIFICATIONS AND SUBDIVISION

ACCEPTANCE. ALL SANITARY MANHOLES SHALL BE VACUUM TESTED FOR LEAKAGE IN ACCORDANCE WITH

WRITTEN REPORT SHALL BE SUBMITTED TO THE MUNICIPALITY FOR APPROVAL. THE REPORT SHALL INCLUDE

FROM THE MANHOLE NUMBER SPECIFIED ON THE APPROVED PLANS. ALL COSTS SHALL BE INCIDENTAL TO

THE WORK. TESTING SHALL BE WITNESSED AND APPROVED BY THE MUNICIPALITY BEFORE FINAL ACCEPTANCE.

18. IF THE SANITARY SEWER INSTALLATION FAILS TO MEET THE TEST REQUIREMENTS SPECIFIED. THE CONTRACTOR

19. THE CERTIFICATION CONTRACTOR SHALL SUBMIT CERTIFIED COPIES OF ALL REPORTS OF THE TESTS

CONDUCTED BY AN INDEPENDENT LABORATORY BEFORE INSTALLATION OF PVC PLASTIC PIPE, TESTS SHALL

BE CONDUCTED IN ACCORDANCE WITH THE STANDARD METHOD OF TESTING FOR "EXTERNAL LOADING

PROPERTIES OF PLASTIC PIPE BY PARALLEL PLATE LOADING," ASTM STANDARD D-2412. TESTS SHALL ALSO

BE CONDUCTED IN ACCORDANCE WITH ASTM D-3212, TO DEMONSTRATE JOINT PERFORMANCE AT 5%

MAXIMUM DIAMETRIC DEFLECTION OF THE SPIGOT, AS SPECIFIED IN ASTM D-3212 SPECIFICATIONS.

SHALL DETERMINE THE CAUSE OR CAUSES OF THE DEFECT. AT HIS OWN EXPENSE, THE CONTRACTOR SHALL

REPAIR OR REPLACE ALL MATERIALS AND WORKMANSHIP AS NECESSARY TO COMPLY WITH THE TEST

STUB LOCATIONS, A DESCRIPTION OF ALL DEFECTS, WATER LEVEL, LEAKS AND IDENTIFICATION OF LENGTH

regulations of the municipality. The tests shall be approved by the municipality before

DROP ASSEMBLY SHALL BE CAST IN CONCRETE MONOLITHICALLY WITH THE MANHOLE BARREL.

VISIBLE LEAKAGE SHALL BE ELIMINATED BEFORE FINAL INSPECTION AND ACCEPTANCE.

INSTALLED, LINING UP WITH THE MANHOLE STEPS. ALL MANHOLE STEPS SHALL BE NEENAH R-1981-I AT 16

HAVE RECESSED (CONCEALED) PICK HOLE AND BE SELF SEALING WITH "O" RING GASKET. THE LIDS SHALL

CONCRETE ADJUSTING RINGS SHALL BE USED TO ADJUST FRAME ELEVATIONS. ALL MANHOLES SHALL HAVE

DIFFERENCE IN INVERT GRADES EXCEEDS TWO FEET OR AT LOCATIONS SHOWN ON THE PLANS. THE ENTIRE

MATERIAL SHALL CONFORM TO IDOT GRADATION CA-11 AND INSTALLED PER ASTM D-2321 CLASS I.

WATER WORKS ASSOCIATION (AWWA) C900 WITH WATERTIGHT, PRESSURE RATED JOINTS CONFORMING TO ASTM

GASKET JOINTS CONFORMING TO AWWA C900/C905.

3. CONNECTING SEWER PIPE OF DISSIMILAR MATERIAL IS NOT PERMITTED.

SYSTEM SHALL NOT BE COMPLETED UNTIL AUTHORIZED BY THE MUNICIPALITY.

6. COST FOR PIPE BEDDING SHALL BE MERGED WITH THE UNIT PRICE BID FOR THE SEWER.

COMPACTED CRUSHED GRAVEL, CONFORMING TO ASTM D-2321, CL I.

IEPA REQUIREMENTS AS SPECIFIED IN THE "WATER MAIN" SECTION.

MISSION COUPLING TYPE FITTINGS FOR PIPE CONNECTIONS.

MUNICIPAL STANDARDS AND ASTM C 1244-02.

DEVELOPMENT CODE OF THE MUNICIPALITY.

INCHES ON-CENTER.

9. NO WATER LINE SHALL BE PLACED IN THE SAME TRENCH AS A SEWER LINE.

HAVE THE WORD "SANITARY" AND THE MUNICIPALITY NAME EMBOSSED ON THE LID.

- THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE PROVISIONS OF THE SUBDIVISION CONTROL ORDINANCE OF THE MUNICIPALITY, AND THE ILLINOIS URBAN MANUAL.
- BEFORE STARTING CLEARING AND SITE GRADING WORK, A CONSTRUCTION ENTRANCE AND SILT FENCE SHALL BE INSTALLED AS SHOWN ON THE PLANS.
- THE CONSTRUCTION ENTRANCE TO THE SITE SHALL BE STABILIZED WITH GRAVEL PRIOR TO BEGINNING ANY WORK ON THE SITE. THE ENTRANCE SHALL BE MAINTAINED PERIODICALLY FOR ITS EFFECTIVENESS TO REMOVE DIRT WHICH COULD LEAVE THE SITE BY CONSTRUCTION VEHICLES.
- 4. SILT FILTER FENCE SHALL BE PLACED AS SHOWN ON THE PLANS AND AS DIRECTED BY THE MUNICIPALITY'S ENGINEERING INSPECTOR TO PREVENT SEDIMENT FROM LEAVING THE SITE.
- STAKED SILT FENCE SHALL BE INSTALLED AND MAINTAINED AROUND THE INLETS AND CATCH BASINS AS SHOWN ON THE PLANS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION AND MAINTENANCE OF ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES. THE CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES WEEKLY AND AFTER ANY STORM EVENT IN
- EXCESS OF 1/2". AN INSPECTION REPORT SHALL BE FILLED OUT EACH TIME AND SHALL BE KEPT IN A BINDER AT JOB SITE AT ALL TIMES ALONG WITH NOI, NPDES PERMIT & SWPPP PLAN.
- 8. AT THE COMPLETION OF THE PROJECT, ALL STORM SEWER PIPES AND STRUCTURES SHALL BE CLEANED AND FREE OF DIRT AND DEBRIS. THE SEDIMENTATION SHALL BE REMOVED FROM THE STORM SEWER SYSTEM AND SHALL NOT BE WASHED OUT IN THE STORM SEWER SYSTEM. 9. THE TEMPORARY EROSION CONTROL MEASURES SHALL BE IN PLACE EFFECTIVELY UNTIL ALL THE PERMANENT
- EROSION CONTROL ITEMS ARE FULLY FUNCTIONAL. 10. THE GUARANTEE PERIOD SHALL START AFTER ALL THE PERMANENT EROSION CONTROL MEASURES ARE FULLY

11. A. STOCKPILES OF ANY KIND SHALL NOT BE PLACED IN SPECIAL MANAGEMENT AREAS.

FUNCTIONAL AND ACCEPTABLE TO OWNER OR HIS REPRESENTATIVE.

- B. IF A STOCKPILE IS TO REMAIN IN PLACE FOR MORE THAN SEVEN DAYS, THEN SEDIMENT AND EROSION CONTROL SHALL BE PROVIDED FOR SUCH STOCKPILE.
- 12. IF THE VOLUME, VELOCITY, SEDIMENT LOAD, OR PEAK FLOW RATES OF STORM WATER RUNOFF ARE TEMPORARILY INCREASED DURING CONSTRUCTION, THEN PROPERTIES AND SPECIAL MANAGEMENT AREAS DOWNSTREAM FROM SUCH DEVELOPMENT SITES SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION.
- 13. STORM SEWER INLETS SHALL BE PROTECTED WITH SEDIMENT TRAPPING OR FILTER CONTROL DEVICES DURING
- 14. THE SURFACE OF STRIPPED AREAS SHALL BE PERMANENTLY OR TEMPORARILY PROTECTED FROM SOIL EROSION WITHIN 7 DAYS AFTER FINAL GRADE IS REACHED UNLESS A ½" OR GREATER RAINFALL EVENT IS FORECAST PRIOR TO 7 DAYS. IN THAT CASE THE PROPER SOIL PROTECTION SHALL BE INSTALLED IMMEDIATELY. STRIPPED AREAS NOT AT FINAL GRADE THAT WILL REMAIN UNDISTURBED FOR MORE THAN 7 DAYS AFTER INITIAL DISTURBANCE SHALL BE PROTECTED FROM EROSION UNLESS GRADING ACTIVITIES ARE RESUMED WITHIN 14 DAYS FROM WHEN ACTIVITIES CEASED. TEMPORARY COVER SHALL BE MAINTAINED CONTINUOUSLY UNTIL PERMANENT COVER IS ESTABLISHED.
- 15. WATER PUMPED OR OTHERWISE DISCHARGED FROM THE SITE DURING CONSTRUCTION DEWATERING, IRRIGATION, OR FIRE HYDRANT FLUSHING SHALL BE FILTERED PRIOR TO LEAVING PROJECT SITE.
- 16. GRAVELED ROADS, ACCESS DRIVES, PARKING AREAS OF SUFFICIENT WIDTH AND LENGTH, AND VEHICLE WASHDOWN FACILITIES IF NECESSARY, SHALL BE PROVIDED TO PREVENT THE DEPOSIT OF SOIL FROM BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS. ANY SOIL REACHING A PUBLIC OR PRIVATE ROADWAY SHALL BE REMOVED CONTINUOUSLY
- 17. ALL CONTRACTORS SHALL COMPLY WITH SWPPP PLAN AND NPDES REQUIREMENT & SHALL SIGN SWPPP ON FILE WITH OWNER OR GENERAL CONTRACTOR.

## STORM SEWER

ALL STORM SEWER SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, IN ADDITION TO THE SUBDIVISION CONTROL ORDINANCE

2. UNLESS OTHERWISE NOTED ON THE PLANS, ALL STORM SEWERS SHALL BE REINFORCED CONCRETE CULVERT PIPE (RCP), ASTM C 76, WITH "O" RING RUBBER GASKET JOINTS CONFORMING TO ASTM C-443.

3. HDPE STORM SEWER PIPE SHALL BE HIGH DENSITY POLYETHYLENE PIPE PER ASTM F2306 WITH WATERTIGHT JOINTS CONFORMING TO ASTM D3212.

4. ALL STORM SEWER UNDERDRAIN PIPE SHALL BE PERFORATED ADS N-12 OR APPROVED EQUAL. 5. ALL DOWNSPOUT AND FOOTING DRAINS SHALL BE DISCHARGED TO THE STORM SEWER SYSTEM OR ONTO THE

6. MANHOLE, CATCH BASIN AND INLET BOTTOMS SHALL BE PRECAST CONCRETE SECTIONAL UNITS OR MONOLITHIC CONCRETE. MANHOLES AND CATCH BASINS SHALL BE FOUR FEET IN DIAMETER UNLESS OTHERWISE SPECIFIED ON THE PLANS. MANHOLE JOINTS SHALL BE "O" RING GASKET JOINTS. A MAXIMUM OF SIX INCHES OF ADJUSTING RINGS SHALL BE USED TO ADJUST FRAME ELEVATIONS. THE ADJUSTING RINGS SHALL BE SET WITHIN A FULL MORTAR BED.

7. ALL STORM SEWERS SHALL BE INSTALLED ON TYPE "A" BEDDING, 1/4 TO 3/4 INCH IN SIZE, WITH A MINIMUM THICKNESS EQUAL TO 1/4 OF THE OUTSIDE DIAMETER OF THE SEWER PIPE. BUT NOT LESS THAN FOUR INCHES. USING BLOCKS OF ANY KIND FOR GRADE IS NOT PERMITTED. THE GRANULAR MATERIAL FOR BEDDING AND TRENCH BACKFILL MATERIAL SHALL CONFORM TO IDOT GRADATION CA-6. THE GRANULAR MATERIAL FOR BEDDING AND INITIAL BACKFILL OF FLEXIBLE PIPE SHALL BE NON—ANGULAR GRAVEL MATERIAL CONFORMING TO ASTM D-2321, CLASS I. THE COST OF BEDDING MATERIAL SHALL BE MERGED WITH THE UNIT PRICE BID FOR THE SEWER. THE BEDDING MATERIALS SHALL BE COMPACTED TO 95% OF THE MODIFIED

8. THE FRAME AND GRATE OR CLOSED LID TYPE SHALL BE AS SPECIFIED ON THE UTILITY PLAN. THE MANHOLE LIDS SHALL BE A MACHINE SURFACED, NON-ROCKING DESIGN. ALL CASTINGS SHALL BE EMBOSSED WITH A FISH IMAGE AND "DUMP NO WASTE-DRAINS TO WATERWAYS" MESSAGE. THE CLOSED LIDS SHALL HAVE THE WORD "STORM" AND THE MUNICIPALITY NAME EMBOSSED ON THE LID. THE JOINT BETWEEN THE CONCRETE SECTION AND FRAME SHALL BE SEALED WITH A MASTIC COMPOUND.

9. ALL STORM SEWERS SHALL BE THOROUGHLY CLEANED PRIOR TO FINAL INSPECTION AND TESTING.

10. AFTER THE STORM SEWER STRUCTURE HAS BEEN CONSTRUCTED. THE CONTRACTOR SHALL PLACE EROSION CONTROL AT LOCATIONS SHOWN ON THE PLANS OR AS SELECTED IN THE FIELD BY THE ENGINEER. THE PURPOSE OF THE EROSION CONTROL WILL BE TO MINIMIZE THE AMOUNT OF SILTATION NORMALLY ENTERING THE STORM SEWER SYSTEM FROM ADJECENT AND/OR UPSTREAM DRAINAGE AREAS.

IN THE EVENT OF A CONFLICT BETWEEN THE CITY OF NAPERVILLE GENERAL NOTES AND SPECIFICATIONS ON SHEET C11 AND THOSE LISTED ON THIS SHEET, THE CITY OF NAPERVILLE SPECIFICATIONS SHALL TAKE PRECEDENCE.

CITY OF NAPERVILLE PROJECT # 20-10000081

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	CITY OF NAPERVILLE GENERAL NOTES		CI1 GEOME
1. 2. 3. 4. 5. 6.	THE OWNER OR HIS/HER/THEIR REPRESENTATIVE IS RESPONSIBLE TO OBTAIN ANY AND ALL PERMITS REQUIRED BY APPLICABLE GOVERNMENTAL AGENCIES.  ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF NAPERVILLE DESIGN MANUAL AND STANDARD SPECIFICATIONS (CURRENT EDITION) AND WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (CURRENT EDITION).  ALL CONTRACTORS DOING WORK IN THE PUBLIC RIGHT—OF—WAY MUST BE LICENSED (WHEN APPLICABLE) TO MAKE PUBLIC IMPROVEMENTS WITHIN THE NAPERVILLE CORPORATE LIMITS.  THE CONTRACTOR/DEVELOPER ASSUMES ALL RESPONSIBILITY AND LIABILITY FOR ANY ACTION RESULTING FROM THEIR WORK WITHIN THE PUBLIC RIGHT—OF—WAY.  THE CONTRACTOR/DEVELOPER SHALL INDEMNIFY AND HOLD HARMLESS THE CITY OF NAPERVILLE.  PRIOR TO COMMENCEMENT OF ANY OFF—SITE CONSTRUCTION, THE CONTRACTOR SHALL SECURE WRITTEN AUTHORIZATION THAT ALL OFF—SITE EASEMENTS HAVE BEEN SECURED AND THAT PERMISSION HAS BEEN GRANTED TO ENTER ONTO PRIVATE PROPERTY.  THE CONTRACTOR AND THEIR ON—SITE REPRESENTATIVES WILL BE REQUIRED TO ATTEND A PRE—CONSTRUCTION MEETING WITH THE CITY OF NAPERVILLE PRIOR TO ANY WORK BEING STARTED. A PRE—CONSTRUCTION MEETING WITH THE CITY OF NAPERVILLE DEVELOPMENT REVIEW TEAM AND THE REQUIRED SURETY HAS BEEN APPROVED BY THE CITY OF NAPERVILLE DEVELOPMENT REVIEW TEAM AND THE REQUIRED SURETY HAS BEEN APPROVED BY THE CITY OF NAPERVILLE DEVELOPMENT REVIEW TEAM AND THE REQUIRED SURETY HAS BEEN APPROVED BY THE CITY OF NAPERVILLE DEVELOPMENT REVIEW TEAM AND THE REQUIRED SURETY HAS BEEN POSTED.	1. 2. 3. 4.	THE DEVELOPER AND CONTRACTOR SPROPERTY, CURB AND GUTTER AND EXISTING, FROM ANY AND ALL DAMAGE TO ANY NEW OR EXISTING IMPROVEMENT IS SATISFACTORY TO THE CITY ENGING THE CONTRACTOR AND/OR DEVELOPE ANY WORK ON PRIVATE PROPERTY NEALL BEAR THE SOLE RESPONSIBIL UNDER CONTRACTS THEY INITIATE.  THE CONTRACTOR/DEVELOPER WILL ISIDEWALK, DRIVEWAY) ON THE PROPENSIBLE OF THE CONTRACTOR OF THE PROPENSIBLE O
8.	A MINIMUM OF 48 HOURS NOTICE SHALL BE GIVEN TO THE CITY OF NAPERVILLE TED BUSINESS GROUP (630-420-6100 OPTION 1) PRIOR TO STARTING WORK OR RESTARTING WORK AFTER SOME ABSENCE OF WORK FOR ANY REASON.  IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ADEQUATELY IDENTIFY AND LOCATE ALL EXISTING UTILITIES		CIT TRAFFIC CON
10. 11. 12.	PRIOR TO EXCAVATION. BEFORE STARTING CONSTRUCTION, THE CONTRACTOR SHALL CONTACT JULIE FOR THE LOCATION OF ANY AND ALL UTILITIES. THE TOLL—FREE NUMBER IS 800—892— 0123. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ANY PRIVATE FACILITIES OR NON—JULIE MEMBER FACILITIES.  THE CONTRACTOR CAN SCHEDULE ALL NECESSARY SITE INSPECTIONS WITH THE CITY OF NAPERVILLE BY CALLING (630) 420—6100 OPTION 1 BETWEEN THE HOURS OF 8:00AM AND 4:00PM (CLOSED 1:00PM TO 2:00PM DAILY) ON WEEKDAYS WHEN THE CITY IS OPEN FOR BUSINESS. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE THE SITE PERMIT NUMBER FOR THE PROJECT IN ORDER TO SCHEDULE THE INSPECTION(S).  RECORD DRAWINGS ARE REQUIRED TO BE SUBMITTED AND APPROVED BY THE CITY OF NAPERVILLE PRIOR TO FINAL OCCUPANCY BEING GRANTED.  FINAL ACCEPTANCE OF PUBLIC IMPROVEMENTS SHALL BE GRANTED ONLY AFTER A FINAL INSPECTION HAS BEEN COMPLETED AND HAS REVEALED THAT ALL IMPROVEMENTS HAVE BEEN SATISFACTORILY COMPLETED IN ACCORDANCE WITH THE NAPERVILLE STANDARD SPECIFICATIONS. UTILITIES ARE NOT CONSIDERED ACCEPTED UNTIL THEY ARE FORMALLY ACCEPTED BY THE CITY COUNCIL AS REQUIRED IN ACCORDANCE WITH THE NAPERVILLE MUNICIPAL CODE.  TRAFFIC SIGNALS AND THEIR ASSOCIATED EQUIPMENT UNDER THE JURISDICTION OF DUPAGE COUNTY ARE NOT INCLUDED IN THE JULIE SYSTEM. THE CONTRACTOR SHALL CONTACT DUPAGE COUNTY DOT AND IDOT DIRECTLY REGARDING THE LOCATION OF TRAFFIC SIGNALS (CABLING AND ASSOCIATED SYSTEM) UNDER DUPAGE COUNTY OR IDOT JURISDICTION.	2.	ALL DEVELOPERS AND CONTRACTORS ACTIVITIES IN ACCORDANCE WITH PAF EDITION. TRAFFIC CONTROL MUST B BUT IS NOT LIMITED TO, ROAD CLOS CLOSURES, NARROW LANES, AND CO TRAFFIC CONTROL SET-UPS MAY BE PROVIDING POSITIVE GUIDANCE TO M A REPRESENTATIVE OF THE DEVELOP REACHED 24 HOURS A DAY AND ON PEDESTRIANS MUST BE PROVIDED WI A RESULT OF CONSTRUCTION ACTIVIT THE WORK ZONE. SAID PEDESTRIAN CITY IN WRITING, PRIOR TO THE CON THE CONTRACTOR SHALL EMPLOY TH PLANS, SPECIFICATIONS AND THE MA VEHICLES, AND PEDESTRIANS IS PRE CONTROL DEVICES SHALL BE TO THE
	CITY OF NAPERVILLE STORM SEWER NOTES	4.	ANY TEMPORARY OPEN HOLES SHOU STANDARDS.
1. 2. 3.	NO CONNECTION TO AN EXISTING PUBLIC STORM SEWER MAY BE MADE WITHOUT PERMISSION OF THE CITY ENGINEER.  THE CONTRACTOR SHALL REPAIR ANY EXISTING FIELD DRAINAGE TILE DAMAGED DURING CONSTRUCTION AND PROPERLY REROUTE AND/OR CONNECT SAID TILE TO THE NEAREST STORM SEWER OUTLET. ALL LOCATIONS OF ENCOUNTERED FIELD DRAINAGE TILE SHALL BE PROPERLY INDICATED ON THE CONTRACTOR'S RECORD DRAWINGS.  THE FOLLOWING MATERIALS ARE PERMITTED FOR STORM SEWER AND PIPE CULVERTS. WHERE A PARTICULAR MATERIAL IS SPECIFIED IN THE PLANS OR SPECIAL PROVISIONS, NO OTHER KIND OF MATERIAL WILL BE PERMITTED:  3.a. REINFORCED CONCRETE PIPE (RCP) — REINFORCED CONCRETE PIPE SHALL CONFORM TO ASTM	<ul><li>5.</li><li>6.</li><li>7.</li></ul>	LANE CLOSURES ON ARTERIAL ROADY HOURS OF 6 AM — 9 AM AND 3 PI CITY ENGINEER. LANE CLOSURES ON UNLESS OTHERWISE PERMITTED BY T MINOR ARTERIAL ROADWAYS AS DESIGN ANY WORK THAT IMPACTS A TRAFFIC TRAFFIC CONTROL.  AT THE END OF EACH DAY OF WORL HOLES MUST BE PLATED OR COLD F
	DESIGNATION C 76, CLASSES Î, II, ÎII, IV OR V. BITUMINOUS JOINTS SHALL CONFORM TO ASTM DESIGNATIONS C 14 OR C 76 AS MAY BE APPLICABLE. BITUMINOUS MATERIAL SHALL CONSIST OF A HOMOGENEOUS BLEND OF BITUMEN, INERT FILLER, AND SUITABLE SOLVENT APPROVED BY THE CITY ENGINEER. RUBBER GASKET JOINTS SHALL CONFORM TO ASTM C 433. REINFORCED CONCRETE PIPE SHALL ALSO BE PERMITTED AS ROUND, ELLIPTICAL, OR BOX SHAPED OR AS REINFORCED CONCRETE ARCH CULVERT.  3.b. HIGH DENSITY POLYTHELYNE PIPE (HDPE) — HIGH—DENSITY POLYETHYLENE (HDPE) PIPE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 252 AND M 294. PIPE AND FITTINGS SHALL BE MADE FROM VIRGIN PE COMPOUNDS WHICH CONFORM TO THE REQUIREMENTS OF CELL CLASS 324420C AS DEFINED AND DESCRIBED IN ASTM D 3350. RUBBER GASKET JOINTS SHALL BE USED.	1.	THE CONTRACTOR SHALL MAINTAIN P PREVENT STORM WATER FROM RUNN  DURING EXTENDED DRY PERIODS, TH
4.	BEDDING, OTHER THAN CONCRETE EMBEDMENT, SHALL CONSIST OF GRAVEL, CRUSHED GRAVEL, OR CRUSHED STONE 1/4 INCH TO 1 INCH IN SIZE. AS A MINIMUM, THE MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF IDOT STANDARD SPECIFICATIONS. THE GRADATION SHALL CONFORM TO GRADATION CA-7 OR CA-11 OF THE STANDARD SPECIFICATIONS.	3.	BLOWING OF SOIL FROM THE SITE.  DURING CONSTRUCTION, A STABILIZED DIRT ONTO THE PUBLIC STREETS. I'CLEAN OF DIRT AND DEBRIS. ANY
<ul><li>5.</li><li>6.</li></ul>	BACKFILL MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF IDOT STANDARD SPECIFICATIONS. THE GRADATION SHALL CONFORM TO GRADATION CA—6 OF THE STANDARD SPECIFICATIONS. BACKFILL MATERIAL SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY.  JOINTS CONNECTING DISSIMILAR PIPE MATERIALS SHALL BE MADE WITH SEWER CLAMP NON—SHEAR TYPE COUPLINGS; CASCADE CSS, ROMAC LSS, FERNCO, INC. SHEAR RING, OR APPROVED EQUAL. WHEN AVAILABLE, A STANDARD JOINT WITH A TRANSITION GASKET MAY BE USED. THE NAME OF THE MANUFACTURER, CLASS, AND DATE OF ISSUE SHALL BE CLEARLY IDENTIFIED ON ALL SECTIONS OF PIPE. THE CONTRACTOR SHALL ALSO SUBMIT BILLS OF LADING, OR OTHER QUALITY ASSURANCE DOCUMENTATION WHEN REQUESTED BY THE CITY ENGINEER. ALL NUTS AND BOLTS FOR COUPLINGS SHALL BE STAINLESS STEEL.	<ul><li>4.</li><li>5.</li><li>6.</li></ul>	SAME DAY. IF THE AMOUNT TRACKE FREQUENTLY.  ALL EROSION CONTROL MEASURES S DISTURBANCE ACTIVITIES. ALL EROSION COAPPROVED BY THE CITY ENGINEER.  ALL OPEN GRATE STRUCTURES SHALEROSION CONTROL PLANS. INLET B.
7.	MANHOLES FOR STORM SEWERS SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48 INCHES AND SHALL BE CONSTRUCTED OF PRECAST CONCRETE UNITS IN ACCORDANCE WITH ASTM C478-05 (OR LATEST EDITION) AND SHALL CONFORM TO THE CITY OF NAPERVILLE STANDARD DETAIL. ALL MANHOLES SHALL BE WATER-TIGHT. ALL VISIBLE LEAKS SHALL BE SEALED IN A MANNER ACCEPTABLE TO THE CITY ENGINEER.	7. 8.	STOCKPILES NOT BEING DISTURBED I ALL EROSION CONTROL MEASURES S FREQUENTLY AS NECESSARY TO MAIN
8.	MANHOLES SHALL BE FURNISHED WITH A SELF—SEALING FRAME AND SOLID COVER (EAST JORDAN IRON WORKS 1022 WITH TYPE A SOLID COVER, OR APPROVED EQUAL) WITH THE WORD "STORM" IMPRINTED ON THE COVER IN RAISED LETTERS. ALL FRAMES AND LIDS SHALL MEET OR EXCEED AASHTO H—20 LOADING SPECIFICATIONS. FRAMES SHALL BE SHOP PAINTED WITH ASPHALTIC BASE PAINT. BOTH THE MANHOLE FRAME AND COVER SHALL HAVE MACHINED HORIZONTAL AND VERTICAL BEARING SURFACES. INVERTED MANHOLE FRAMES ARE NOT ALLOWED. PICK HOLES SHALL NOT CREATE OPENINGS IN THE MANHOLE COVER.	9.	IT IS THE RESPONSIBILITY OF THE O MEASURES PER THE REQUIREMENTS
9.	MANHOLE STEPS ON MAXIMUM 16 INCH CENTER SHALL BE FURNISHED WITH EACH MANHOLE, SECURELY ANCHORED IN PLACE, TRUE TO VERTICAL ALIGNMENT, IN ACCORDANCE WITH THE NAPERVILLE STANDARD DETAILS. STEPS SHALL BE COPOLYMER POLYPROPYLENE REINFORCED WITH 1/2 INCH A615/A615M-05A (OR LATEST EDITION) GRADE 60 STEEL REINFORCEMENT, MEETING OR EXCEEDING ASTM C 478-05 (OR LATEST EDITION) AND OSHA STANDARDS.		
10.	CATCH BASINS AND INLETS SHALL HAVE A MINIMUM INSIDE DIAMETER OF 24 INCHES AND SHALL BE CONSTRUCTED OF PRECAST CONCRETE UNITS IN ACCORDANCE WITH ASTM C478—05 (OR LATEST EDITION) AND SHALL CONFORM TO THE CITY OF NAPERVILLE STANDARD DETAIL. ALL CATCH BASINS AND INLETS SHALL BE WATER—TIGHT AT ALL POINTS BELOW GRADE. ALL VISIBLE LEAKS SHALL BE SEALED IN A MANNER ACCEPTABLE TO THE CITY ENGINEER. CATCH BASINS AND INLETS SHALL BE FURNISHED WITH A FRAME AND GRATE BASED UPON THE LOCATION OF THE INSTALLATION AS LISTED BELOW. ALL FRAMES AND GRATES SHALL MEET OR EXCEED AASHTO H—20 LOADING SPECIFICATIONS. FRAMES SHALL BE SHOP PAINTED WITH ASPHALTIC BASE PAINT.  10.a. PAVEMENT: EAST JORDAN IRON WORKS 1022 FRAME WITH TYPE M1 RADIAL FLAT GRATE, OR APPROVED EQUAL.  10.b. BARRIER CURB AND GUTTER: EAST JORDAN IRON WORKS 7220 FRAME WITH TYPE M1 GRATE AND T1 CURB BOX, OR APPROVED EQUAL.  10.c. DEPRESSED CURB: EAST JORDAN IRON WORKS 5120 FRAME AND GRATE, OR APPROVED EQUAL.		
	<ul> <li>10.d. MOUNTABLE CURB: EAST JORDAN IRON WORKS 7525 FRAME AND GRATE, OR APPROVED EQUAL.</li> <li>10.e. NON-PAVED AREAS: EAST JORDAN IRON WORKS 6527 BEEHIVE GRATE, OR APPROVED EQUAL.         ALTERNATELY IN AREAS WHERE THERE IS THE LIKELIHOOD OF PEDESTRIAN TRAFFIC, EAST JORDAN IRON         WORKS 1022 FRAME WITH TYPE M1 RADIAL FLAT GRATE, OR APPROVED EQUAL MAY BE USED.</li> </ul>		
11.			
12.	FROM ENTERING THE PIPE OR PIPE JOINT DURING HANDLING OR LAYING OPERATIONS. ALL STORM SEWER PIPE TO PIPE CONNECTIONS SHALL BE SEALED WITH BUTYL MASTIC TO ENSURE WATER TIGHTNESS. LIFT HOLES TO BE SEALED USING BUTYL MASTIC AND CONCRETE PLUGS. AT NO TIME SHALL CONNECTIONS BETWEEN THE TWORM		
13.	SEWER AND SANITARY SEWER BE ALLOWED.  FOR STRUCTURES LOCATED IN PAVED AREAS, A MINIMUM OF FOUR, 2—INCH DIAMETER HOLES SHALL BE DRILLED OR PRECAST INTO THE STRUCTURE WITHIN 1 FOOT OF THE LOWEST PIPE INVERT. THE HOLES SHALL BE DISTRIBUTED EQUIDISTANT AROUND THE PERIMETER OF THE STRUCTURE. A 1—FOOT BY 1—FOOT SECTION OF UNDERDRAIN FILTER CLOTH MATERIAL SHALL BE SUFFICIENTLY FIXED TO THE OUTSIDE OF THE MANHOLE WITH MASTIC MATERIAL TO PREVENT SLIPPAGE DURING BACKFILLING.		
14.	ALL STORM SEWER STRUCTURE FRAMES WITHOUT INSIDE FLANGES SHALL BE SHAPED WITH NON—SHRINKING HYDRAULIC CEMENT TO FORM A FILLET TO THE STRUCTURE OR ADJUSTING RING. WHEN ADJUSTMENTS ARE NECESSARY, ALL RINGS SHALL BE HIGH DENSITY POLYETHYLENE PLASTIC (HDPE), RECYCLED RUBBER, HIGH DENSITY EXPANDING POLYSTYRENE, EXPANDED POLYPROPYLENE (EPP) OR OTHER MATERIAL APPROVED BY THE CITY ENGINEER. PRECAST CONCRETE RINGS, BRICKS, ROCKS, SHIMS, OR CONCRETE BLOCKS WILL NOT BE ALLOWED. THE MAXIMUM HEIGHT OF ADJUSTMENTS SHALL BE 12 INCHES.		

ITY OF NAPERVILLE METRIC & PAVING NOTES R SHALL HAVE THE RESPONSIBILITY TO ADEQUATELY PROTECT THE PAVEMENT AND ND OTHER RIGHT-OF-WAY IMPROVEMENTS, WHETHER NEWLY CONSTRUCTED OR MAGE. SUFFICIENT MEANS SHALL BE EMPLOYED BY THE CONTRACTOR TO TO THE SATISFACTION OF THE CITY ENGINEER.

IENTS THAT ARE DAMAGED SHALL BE REPAIRED OR REPLACED IN A MANNER THAT

OPER SHALL SECURE ALL NECESSARY RIGHTS AND PERMISSIONS TO PERFORM Y NOT WITHIN THE OWNERSHIP RIGHTS OF THE DEVELOPER. THE DEVELOPER IBILITY FOR DAMAGES THAT MAY OCCUR AS A RESULT OF WORK PERFORMED

L BE RESPONSIBLE FOR BRINGING PAVEMENTS (STREET, CURB AND GUTTER, ROPERTY UP TO CITY STANDARDS INCLUDING ANY REPAIRS TO SUBSTANDARD TO OR OCCURRED DURING CONSTRUCTION.

FEXISTING CONDITIONS OTHER THAN LAWN AREAS, REGARDLESS OF WHETHER THE ALT OR CONCRETE, THE EXISTING ADJACENT SIDEWALK, DRIVEWAYS, PAVEMENT OR THE SAW CUT SHALL BE IN A NEAT STRAIGHT LINE SUFFICIENTLY DEEP SO RTICAL FACE TO MATCH TO. IF THE CONTRACTOR IS NOT CAREFUL OR DOES NOT LINE BREAKS OUT OR CHIPS TO AN IMPERFECT EDGE, THEN THE EXISTING SIDE OONE OVER UNTIL IT IS CORRECT.

PROPER DRAINAGE AT ALL TIMES DURING THE COURSE OF CONSTRUCTION AND JNNING INTO OR STANDING IN EXCAVATED AREAS.

THE CONSTRUCTION AREA(S) MAY NEED TO BE WATERED DOWN TO PREVENT THE

IZED CONSTRUCTION ENTRANCE SHALL BE UTILIZED TO MINIMIZE THE TRACKING OF IT IS THE CONTRACTOR'S RESPONSIBILITY TO KEEP PUBLIC STREET PAVEMENT DIRT THAT IS TRACKED ONTO THE PUBLIC STREETS SHALL BE REMOVED THE CKED ON THE PUBLIC STREET IS EXCESSIVE, CLEANING MAY BE REQUIRED MORE

S SHALL BE PROPERLY INSTALLED, AS PERMITTED, PRIOR TO ANY LAND ROSION CONTROL SHALL BE MAINTAINED UNTIL TURF IS ESTABLISHED.

CONTROL INCLUDES SILT FENCE, SILT WORM AND ANY OTHER APPLICATION

HALL HAVE EROSION CONTROL PROTECTION IN ACCORDANCE WITH THE APPROVED BASKETS ARE THE PREFERRED METHOD; STRAW BALES SHALL NOT BE USED.

FOR MORE THAN 14 DAYS SHALL BE SEEDED.

S SHALL BE INSPECTED WEEKLY, AFTER ANY 0.5 INCH RAINFALL, OR MORE MAINTAIN THEIR FUNCTION.

OWNER OR HIS DESIGNEE TO INSPECT ALL TEMPORARY EROSION CONTROL TS OF THE NPDES PERMIT AND CORRECT ANY DEFICIENCIES AS NEEDED.

CITY OF NAPERVILLE
CONTROL & PROTECTION NOTES

ACTORS SHALL PROVIDE SUITABLE TRAFFIC CONTROL FOR THEIR CONSTRUCTION
THE PART 6 OF THE MANUAL ON UNFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST
MUST BE REPROVIDED FOR ANY ACTIVITY THAT IMPACTS TRAFFIC (FLOW. THIS INCLUDES,
O CLOSURES, RECOURING DETOURS, DAILY LANG CLOSURES, LONG TERM LANG
NO CONSTRUCTION VEROUS PROVIDED BY THE CITY OF FARAPPRILE TO ENSURE THAT THEY CAN BE
NO CONSTRUCTION VERTOR SHOP TO FARAPPRILE TO ENSURE THAT THEY CAN BE
NO ON MEEKENDS SO THAT THEY CAN MANITAIN TRAFFIC CONTROL DEVICES.
DOED WITH A SAFE ALTERNATE ROUTE IF PEDESTRANS SO THAT THEY CAN BE
NO ON MEEKENDS SO THAT THEY CAN MANITAIN TRAFFIC CONTROL DEVICES.
DOED WITH A SAFE ALTERNATE ROUTE IF PEDESTRANS SO THAT THEY MAY AVOID
ESTRAIN DETOUR PLAN (WITH SIGNAGE) IS TO BE REVIEWED AND ACCEPTED BY THE
HE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, SUCH THAT THE SAFETY OF
THE COMMENCEMENT OF THE WORK.

CITY THE APPROPRIATE METHODS OF TRAFFIC CONTROL IN ACCORDANCE WITH THE
HE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, SUCH THAT THE SAFETY OF
TO THE SATISFACTION OF THE AGENCY OF JURISDICTION AND THE CITY ENGINEER.
SO HOULD BE BARRICADED AND PROTECTED IN ACCORDANCE WITH APPLICABLE

COMMENS WITHIN THE CITY OF NAPERVILLE ARE NOT PERMITTED BETWEEN THE
BO A ARTEMAL STREETS ARE PERMITTED BETWEEN TO AN AND 7 PM ON WEEKENDS,
SO DESIGNATED ON THE CITY'S MASTER THOROUGHFARE PLAN, LATEST EDITION.

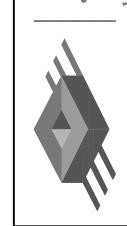
REAFFIC LANE ON AN ARTERIAL ROADWAY REQUIRES AN ARROWBOARD AS PART OF THE
SO ON ARTEMAL STREETS ARE PERMITTED BETWEEN TO AN AND 7 PM ON WEEKENDS,
TRAFFIC LANE ON AN ARTERIAL ROADWAY REQUIRES AN ARROWBOARD AS PART OF THE
SO ON TROL ON AN ARTERIAL ROADWAY REQUIRES AN ARROWBOARD AS PART OF THE
FORM, THE PROPERTY OF THE HORS.

CITY OF NAPERVILLE
CONTROL AND DRAINAGE NOTES

CONTROL AND DRAINAGE NOTES

COLD PATCHED; THE CITY WILL NOT ALLOW THE HOLES TO BE FILLED WITH GRAVEL.

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N.T.S.

CITY OF NAPERVILLE PROJECT # 20-10000081