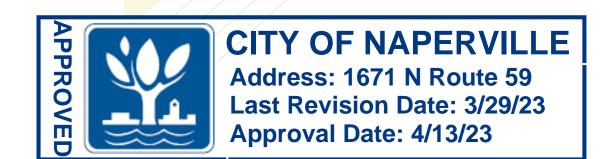
FINAL SITE IMPROVEMENT PLANS

FOR

NAPERVILLE DUNKIN' GO

1671 N IL 59 NAPERVILLE, ILLINOIS 60563



SECOND FLOOR USE - OFFICE

CALL J.U.L.I.E. 1-800-892-0123

WITH THE FOLLOWING:

COUNTY **DUPAGE** CITY, TOWNSHIP

SEC. & SEC. NO.

NAPERVILLE, NAPERVILLE SEC 3, T38N, R9E

48 HOURS BEFORE YOU DIG. EXCLUDING SAT., SUN. & HOLIDAYS

DEVELOPER

PRAKASH PATEL 352 JENNIFER LANE ROSELLE, IL 60172 P: (630) 697-8218

ADVANTAGE NOTE

ADVANTAGE CONSULTING ENGINEERS IS TO BE NOTIFIED AT LEAST THREE (3) DAYS PRIOR TO CONSTRUCTION. STAKING REQUESTS FIVE (5) DAYS NOTICE BETWEEN SEPTEMBER 15th AND DECEMBER 15th AND SHALL BE INCLUDED IN THE PRECONSTRUCTION MEETINGS

THESE PLANS ARE COLOR CODED. CONTRACTOR/REVIEWER WILL NEED TO PRINT IN COLOR OR VIEW PDF.

BENCHMARK

ELEVATION:

DESCRIPTION: SEE SHEET EX1 FOR BENCHMARK INFORMATION

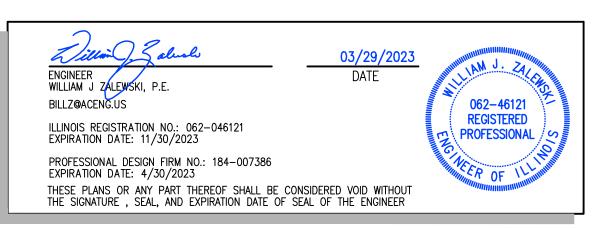
EXISTING TOTAL SITE AREA: 0.53 ACRES PROPOSED PROJECT AREA: 0.53 ACRES

	LOCATION MAP	
Freight Fellowes •	Beacon Building Products Albright St. Lexington Trace Culvers Culve	
Amazon Fulfillment Center - MDW9	M/I Homes Everton Duke Pkwy Thorntons (1) Estes St M/I Homes Everton Wagner Or Point Oak Dr	
udio Furniture - Aurora Store - Quide Renaula	Townline Rd JBS Logistics & Warehousing Warehousing Woodland or	
Meadow Rd	WhirtyBall Naperville Topgolf Topgolf Naperville Hotel Arista Service Naperville Nicor Gas Naperville Nicor Gas Naperville Nicor Gas Naperville Nicor Gas Naperville	
one Rd	CityGate Grille To Chicago - Kansas City E: Tracker Barrel To Sleep Inn Ecolab C	
Fisher Dr Diehl Rd oskmont th	Autumn Run Apartments Diehl Rd Healthcare Facility Panera Bread PROJECT	
Country Countr	TGM McDowell Place Apartments Chantecleer Lakes Condominium	
ville	Argyfl Ln Claymore Ln Bruce Ln Bruce Ln Sushi Naper Middle School	1
O McGregor Li	Arbors of Brookdale Apartments	٥
Fairways of Naperville Apartments Bristol Station	Country Wood Apartments Brookdale on the Park Preston Rd Brookdale Rd Meadowbrook Manor-Naperville	
untry es Park JK Kaba N Aurora Rd 1	Michigan Ave Greens	Γ.S.

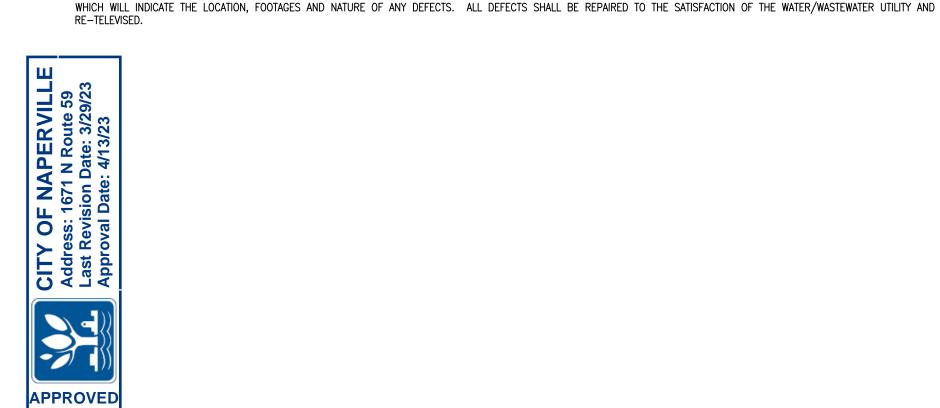
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3	EX1	EXISTING CONDITIONS AND DEMOLITION PLAN
4	L1	GEOMETRIC PLAN
5	G1	GRADING PLAN
6	U1	UTILITY PLAN
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9	SE3	SOIL EROSION AND SEDIMENT CONTROL PLAN
10	S1	SPECIFICATIONS
11-1	2 D1-D2	DETAILS

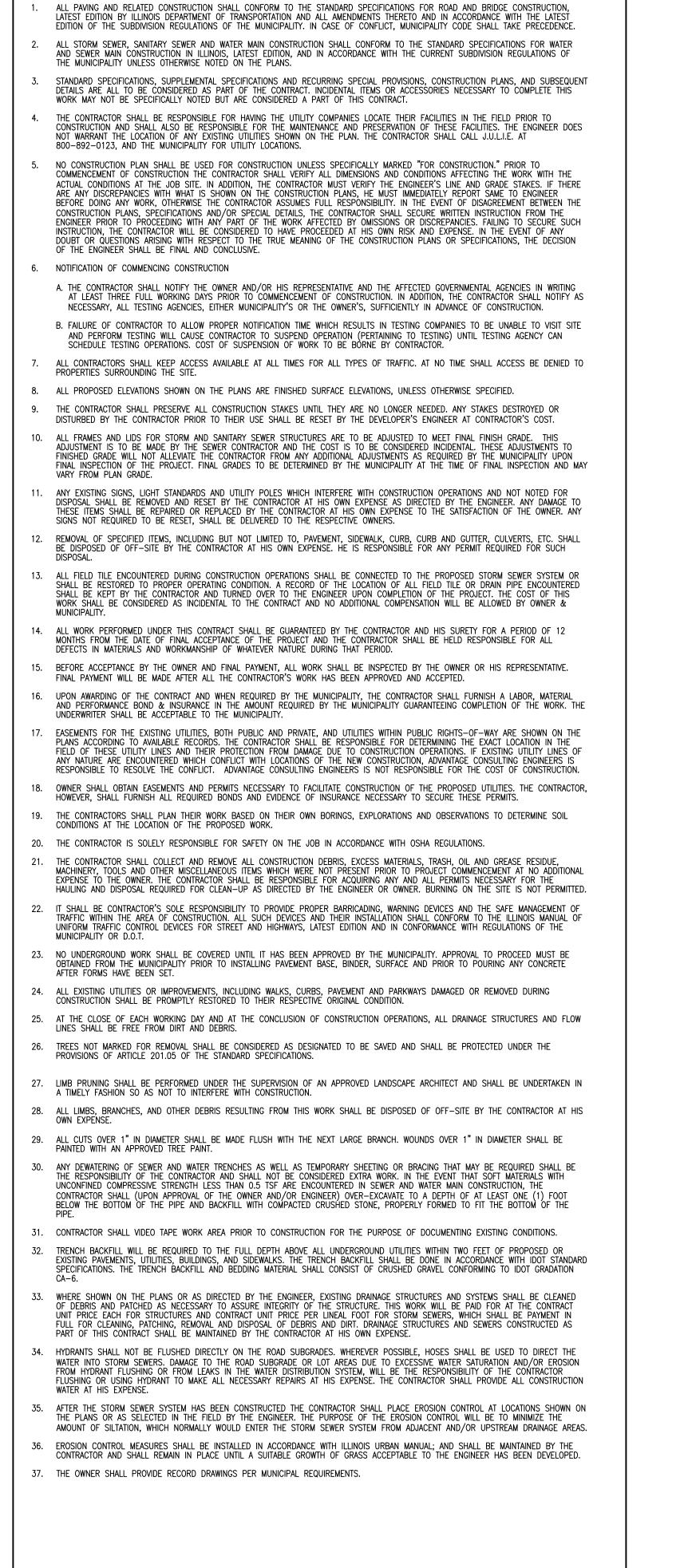
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Uł	RIGINAL PLAN [DATE: MARCH 04, 2022	
#	SHEET #	REMARKS	DATE
1	1-6,9,10	REVISED PER NAPERVILLE	01/09/23
2	6,10	REVISED PER NAPERVILLE	03/10/23
3	6	REVISED PER NAPERVILLE	03/29/23

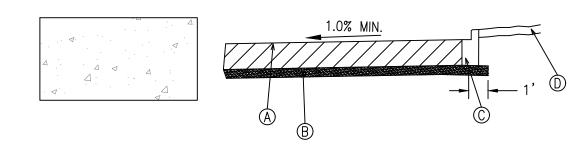
REVISIONS



CITY OF NAPERVILLE STANDARD GENERAL NOTES **GENERAL NOTES** 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 THE MUNICIPALITY UNLESS OTHERWISE NOTED ON THE PLANS. 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 HAT 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 WILL NOT BE SCHEDULED UNTIL THE PROJECT HAS BEEN APPROVED BY THE CITY OF NAPERVILLE DEVELOPMENT REVIEW TEAM AND THE REQUIRED SURETY HAS BEEN POSTED. 800-892-0123, AND THE MUNICIPALITY FOR UTILITY LOCATIONS. 7. 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 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 OF THE ENGINEER SHALL BE FINAL AND CONCLUSIVE BEEN SATISFACTORILY COMPLETED IN ACCORDANCE WITH THE NAPERVILLE STANDARD SPECIFICATIONS. UTILITIES ARE NOT CONSIDERED ACCEPTED UNTIL THEY ARE FORMALLY 6. NOTIFICATION OF COMMENCING CONSTRUCTION ACCEPTED BY THE CITY COUNCIL AS REQUIRED IN ACCORDANCE WITH THE NAPERVILLE MUNICIPAL CODE. 12. THE CITY OF NAPERVILLE DPU-W/WW DOES NOT GUARANTEE THAT ANY VALVE OR FITTING IN THE EXISTING WATER DISTRIBUTION SYSTEM WILL HOLD AGAINST A HYDROSTATIC/LEAKAGE TEST. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PROVIDING AN ACCEPTABLE PRESSURE TEST WHICH SHALL INCLUDE PROVISIONS AROUND EXISTING VALVES AND FITTINGS. 13. THE CONTRACTOR SHALL PROVIDE INTERNAL TELEVISED INSPECTION OF ALL INSTALLED SANITARY SEWER, LATERALS, MANHOLES AND CONNECTIONS TO THE PUBLIC SYSTEM. FOLLOWING COMPLETION OF TELEVISING WORK, THE CONTRACTOR SHALL SUBMIT VIDEO RECORDINGS ON DVD OR FLASH DRIVE ALONG WITH A COMPREHENSIVE TELEVISING REPORT

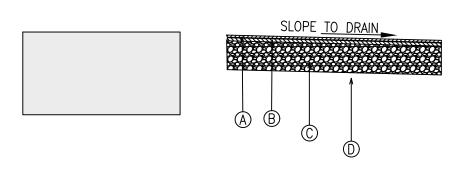






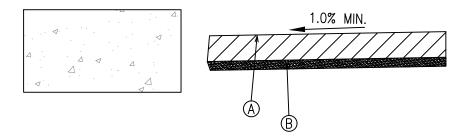
A 8" PORTLAND CEMENT CONCRETE PAVEMENT W/6X6 WWF 4" CRUSHED AGGREGATE SUB-BASE, CA-7, CLEAN GRAVEL CONC. CURB & GUTTER, TYPE B-6.12 6" TOP SOIL AND SEEDING WITH BLANKET

P.C.C. PAVEMENT SECTION



2.0" BITUMINOUS CONCRETE SURFACE COURSE, HOT MIX ASPHALT, MIX. C, N50 4.0" BITUMINOUS CONCRETE BINDER COURSE, HOT MIX ASPHALT, IL 19, N50 12" CA-6 GRAVEL BASE COMPACTED SUBGRADE

PARKING LOT PAVEMENT SECTION



A 10" PORTLAND CEMENT CONCRETE PAVEMENT W/6X6 WWF B 4" CRUSHED AGGREGATE SUB-BASE, TY. B.

SECTION: DUMPSTER PAD

CONTACTS

ENGINEER

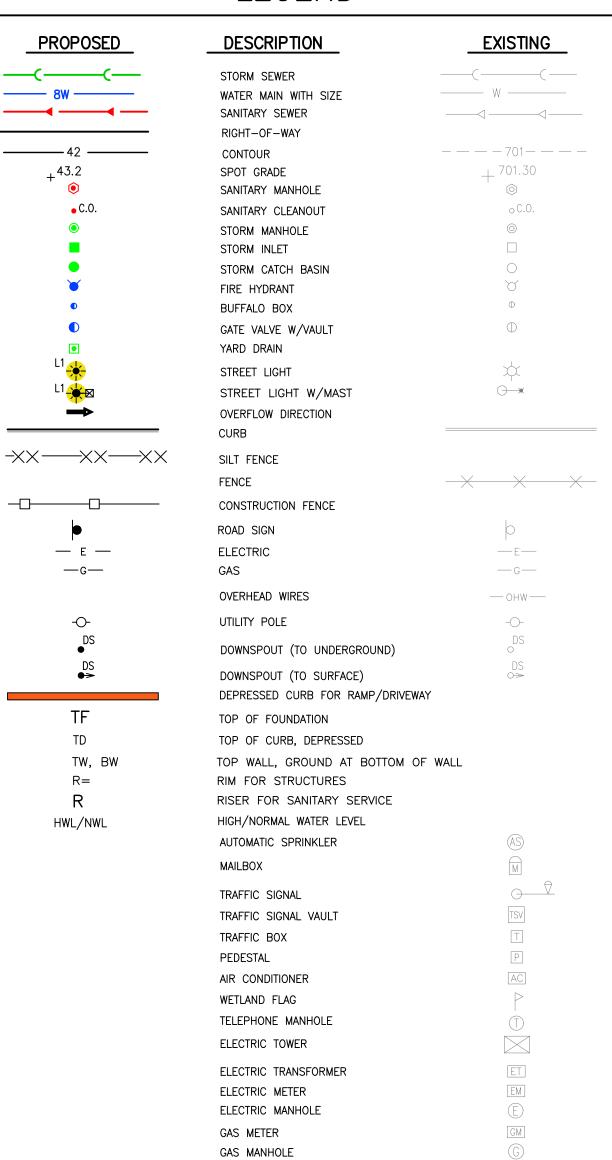
ADVANTAGE CONSULTING ENGINEERS 80 MAIN STREET, SUITE 17 LEMONT, ILLINOIS 60439 PHONE: (630) 520-2467 CONTACT: WILLIAM J. ZALEWSKI

PRAKASH PATEL 352 JENNIFER LANE ROSELLE, ILLINOIS 60172

ARCHITECT

PUROHIT ARCHITECTS 251 BRADWELL ROAD INVERNESS, ILLINOIS 60010 PHONE: (847) 942-8777 CONTACT: HEMAL PUROHIT

LEGEND



WATER METER

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HANDHOLE IRON PIPE RETAINING WALL



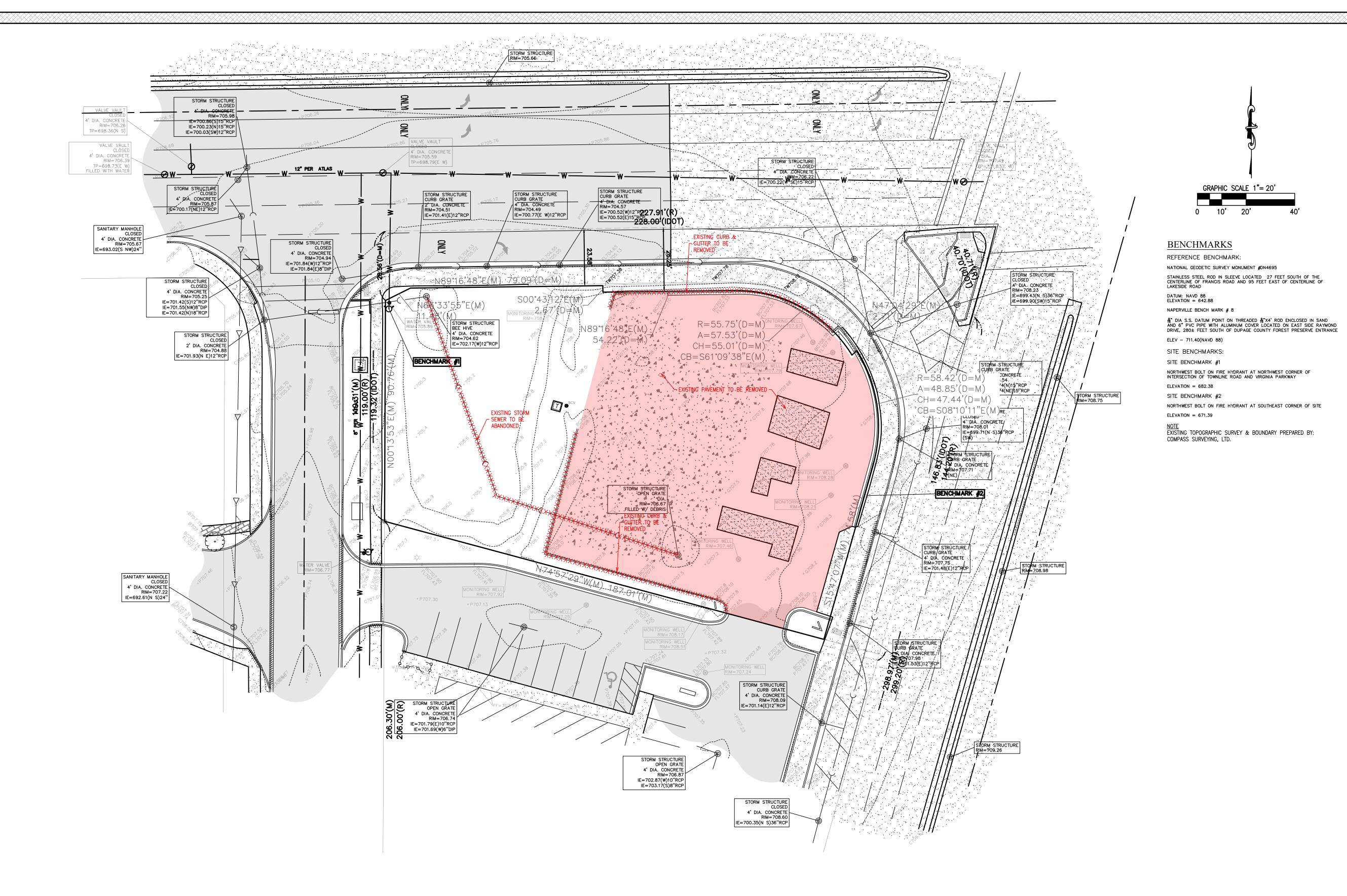
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MARCH 04, 2022

SHEET:

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EXISTING CONDITIONS AND DEMOLITION PLAN DUNKIN DONUTS 1671 N IL 59 NAPERVILLE, IL 60563

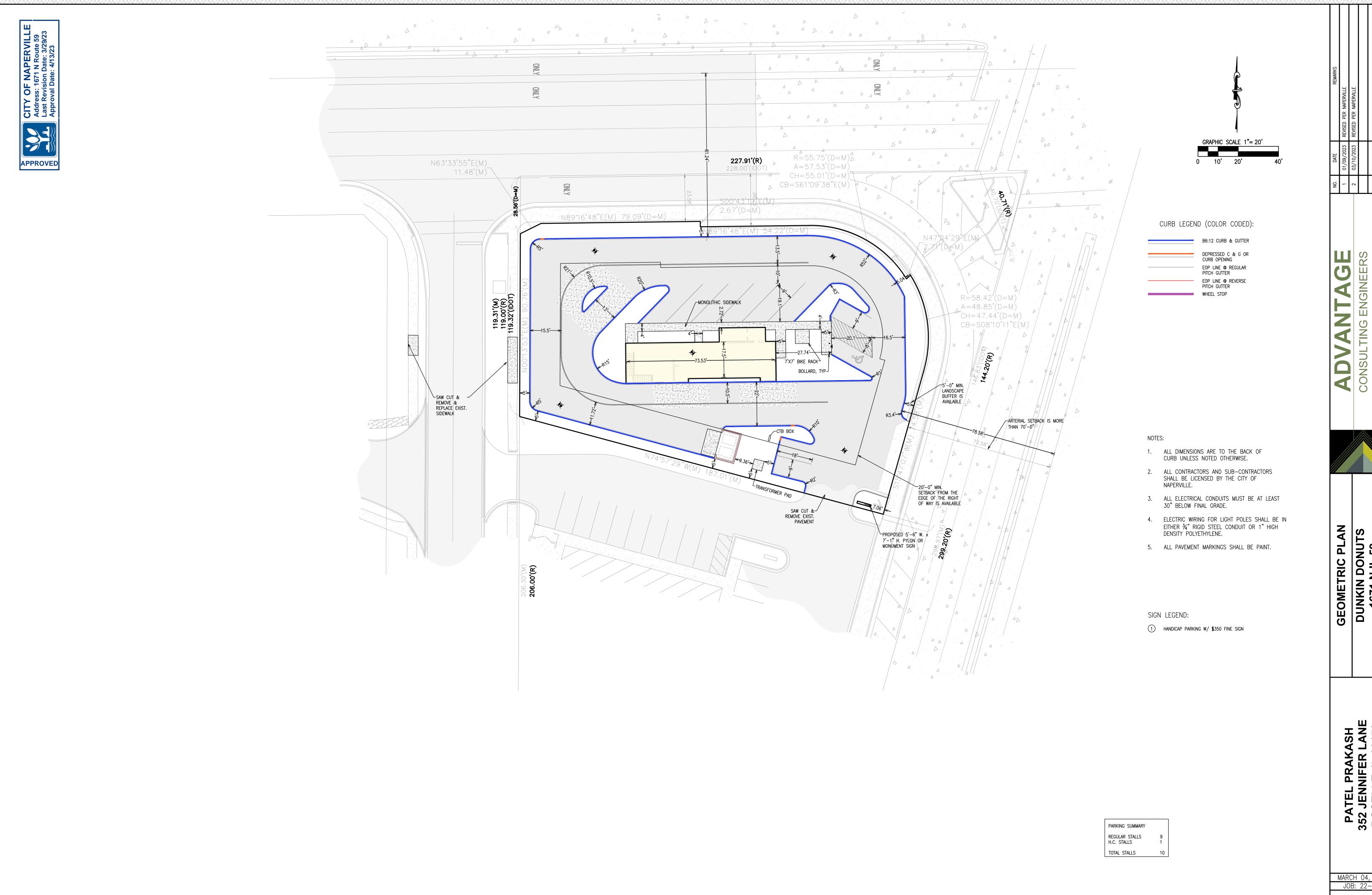
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GEOMETRIC PLAN
DUNKIN DONUTS
1671 N IL 59
NAPERVILLE, IL 60563

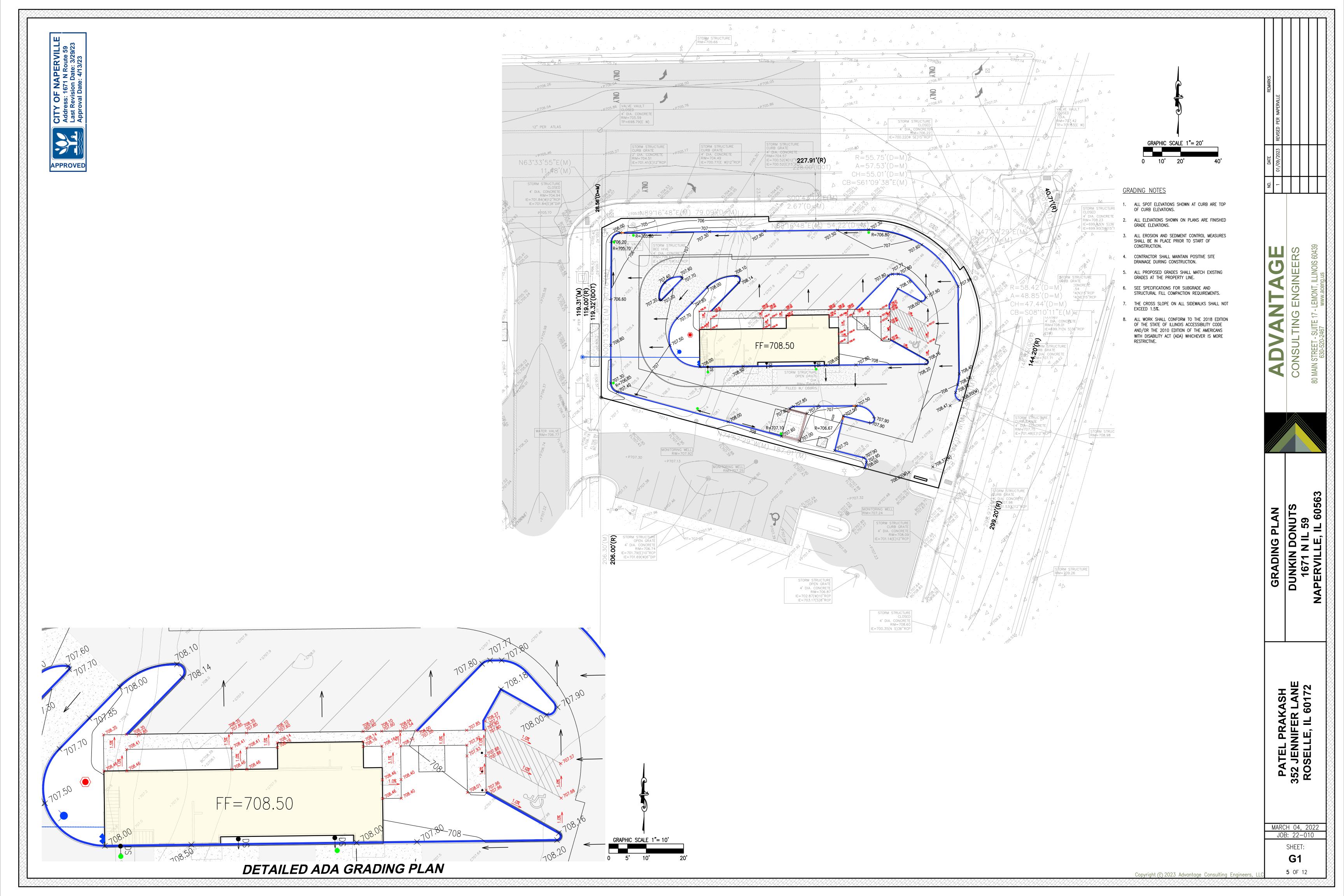
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NOTES FOR OVERALL UTILITY PLAN:

NOTED OTHERWISE.

- 1. ALL 12" STORM SEWERS SHALL BE RCP CL IV, ALL NEW STORM SEWERS SHALL BE PRIVATE.
- 2. ALL SANITARY SEWER SHALL BE PVC SDR 26 UNLESS NOTED OTHERWISE.
- 3. ALL WATER MAIN SHALL BE D.I.P. CLASS 52 UNLESS
- 4. THE PVC STORM SEWER SHALL BE PVC SDR 26.
- 5. THE FRAME & GRATE/LID FOR STORM STRUCTURES SHALL BE AS FOLLOWS:

8P: NEENAH R4340-A BEEHIVE OPEN GRATE

- 1P: NEENAH R-1713, TYPE G OPEN GRATE 1C: NEENAH R-1712, TYPE B CLOSED LID 3P: NEENAH R-3278 FRAME & TYPE A OPEN GRATE
- 6. UTILITY STRUCTURE SYMBOL LEGEND:
- M36: MANHOLE, STRUCTURE # 36 I: INLET
- BE: CATCH BASIN M: MANHOLE
- E: FLARED END SECTION WITH RIP RAP S: SANITARY MANHOLE
- NP: NYLOPLAST FH: FIRE HYDRANT Vv: VALVE VAULT
- PC: PRESSURE CONNECTION CO: CLEAN OUT
- UD: PERFORATED UNDERDRAIN A4D,1P: TYPE A, 4' DIA., TYPE OF FRAME AND GRATE/LID.
- 7. CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING UTILITIES FOR CONNECTION OF PROPOSED UTILITIES.
- 8. CONTRACTOR SHALL COORDINATE ANY ROAD CLOSURES FOR OPEN CUT UTILITY WORK WITH THE APPROPRIATE AUTHORITIES.

9. = TRENCH BACKFILL

1-6" PVC SCH 40 CONDUIT FOR GAS 3-4" PVC SCH 40 CONDUITS

FOR COMED, AMERITECH, CABLE 12. ALL CONDUITS SHALL BE 30" BELOW FINISHED GRADE.

13. ZM PIPE CROSSING

14. — INLET AREA BOUNDARY

THE DPUE ENGINEER FOR THIS PROJECT IS GIOVANNI HERNANDEZ. PLEASE CONTACT HIM AT (630)-548-1212 WITH ANY QUESTIONS THE DEVELOPER SHALL SUPPLY THE DPU-E ENGINEER WITH CATALOG CUTS FOR ALL CT/METER EQUIPMENT (INCLUDING BUT NOT LIMITED TO

THE CT/METER CABINET SHALL BE TOP FED. CT/METER EQUIPMENT ARE LONG LEAD TIME ITEMS AND DPU-E SHALL NOT BE HELD

NAME AND CONTACT INFORMATION FOR ELECTRICAL CONTRACTOR FOR THIS PROJECT IS

DPUE WILL PROVIDE, INSTALL, AND MAINTAIN THE TRANSFORMERS, ALL PRIMARY (15KV) CABLE AND CONDUIT, AND THE METERS AND INSTRUMENT TRANSFORMERS. DPUE WILL ALSO MAKE THE FINAL CONNECTIONS IN THE TRANSFORMERS ONCE THE INSPECTION IS COMPLETE AND THE BUILDING IS READY TO BE ENERGIZED.

THE DEVELOPER IS RESPONSIBLE FOR PROVIDING, INSTALLING, AND MAINTAINING THE TRANSFORMER PAD/VAULT, ALL SERVICE LATERAL (480V) CABLE AND CONDUIT, THE SERVICE ENTRANCE EQUIPMENT INCLUDING THE CT/METER CABINET AND ALL BANKED METER SOCKETS. THE DEVELOPER SHALL COORDINATE SITE CONSTRUCTION WITH DPU-E TO ALLOW ELECTRIC FACILITIES TO BE INSTALLED PRIOR TO PAVING AND CURBING. DPU-E REQUIRES 30 WORKING DAYS ADVANCE WRITTEN NOTICE PRIOR TO PAVEMENT INSTALLATION TO ALLOW FOR THE INSTALLATION OF ELECTRIC FACILITIES. GRADE ELEVATION MUST BE WITHIN 4" OF FINAL GRADING BEFORE ELECTRIC FACILITIES CAN BE INSTALLED. ELECTRIC FACILITIES SHALL BE INSTALLED PURSUANT TO SECTION 8-1C-3 OF THE CITY OF NAPERVILLE MUNICIPAL CODE, WHICH REQUIRES A CONSTRUCTION FEE PAYMENT FOR INSTALLATION OF ELECTRIC FACILITIES. AT ALL TIMES, THE CUSTOMER SHALL BE SOLELY RESPONSIBLE FOR MAINTAINING A SUITABLE APPROACH TO THE METER LOCATION, WITH NO OBSTRUCTIONS WITHIN FOUR (4') FEET OF THE FRONT AND TWO (2') FEET OF THE SIDES OF THE METER. PER NAPERVILLE SERVICE RULES

CLEARANCE TO TRANSFORMER PAD SHALL BE 5' FROM ALL SIDES, 10' FROM FRONT, AND THE AREA ABOVE MUST BE COMPLETELY CLEAR OF OBSTRUCTION. NO TREES, SHRUBS, OR OTHER OBSTACLES WILL BE ALLOWED WITHIN THIS AREA. TRANSFORMER PAD SHALL MAINTAIN MINIMUM CLEARANCE OF 20' FROM EGRESS POINTS. PER DPUE SPECIFICATIONS C10-2130 AND C30-0016. DPU-E REQUIRES A MINIMUM 5' OF SEPARATION BETWEEN ITS ELECTRIC FACILITIES AND ANY FIRE HYDRANTS STORM DRAINS, STORM SEWERS, WATER MAINS, GAS MAINS, ETC. THAT RUN PARALLEL TO ITS FACILITIES.

THE DEVELOPER SHALL SUPPLY THE DPU-E ENGINEER WITH CATALOG CUTS FOR ALL CT/METER EQUIPMENT (INCLUDING BUT NOT LIMITED TO METER SOCKETS, PT CABINET, CT CABINET, DISCONNECT CABINET) AND TRANSFORMER PAD/VAULT. THE CATALOG CUTS SHALL BE APPROVED BY DPU-E PRIOR TO PURCHASING. THE CT/METER CABINET SHALL BE TOP FED.

CT/METER EQUIPMENT ARE LONG LEAD TIME ITEMS AND DPU-E SHALL NOT BE HELD RESPONSIBLE FOR DELAYS RESULTING FROM

NON-COMPLIANT CT/METER EQUIPMENT. PLEASE PROVIDE NAME AND CONTACT INFORMATION FOR ELECTRICAL CONTRACTOR FOR THIS PROJECT. ELECTRIC FACILITIES SHALL BE INSTALLED PURSUANT TO SECTION 8-1C-3 OF THE CITY OF NAPERVILLE MUNICIPAL CODE, WHICH REQUIRES A CONSTRUCTION FEE PAYMENT FOR INSTALLATION OF ELECTRIC FACILITIES.

LABEL ALL METER SOCKETS WITH THE COMPLETE ADDRESS IN 1" LETTERS USING PERMANENT STICKERS. IN MULTIPLE METER BANKS, THE COMPLETE ADDRESS MAY BE ON THE DISCONNECT SWITCH AND THE SUITE NUMBERS ON THE METER SOCKETS. THE ELECTRICAL SERVICE EQUIPMENT WILL NOT PASS INSPECTION WITHOUT APPROPRIATE ADDRESS LABELING. APPROVAL OF METERING EQUIPMENT BY DPU-E DOES NOT REMOVE YOUR RESPONSIBILITY TO COMPLY WITH THE LATEST VERSION OF THE

NATIONAL ELECTRICAL CODE AS ADOPTED BY THE CITY OF NAPERVILLE. DETERMINATION OF COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE

WILL BE MADE BY THE TRANSPORTATION, ENGINEERING AND DEVELOPMENT DEPARTMENT. A CUSTOMER'S GROUNDING CONDUCTOR SHALL NOT BE CONNECTED TO DPU-E DISTRIBUTION EQUIPMENT.

INLET AREA SUMMARY STRUCT. # S.F. CB2 6,146 0.14 CB3 5,136 0.12 CB4 1,821 0.04

3,118 0.07

CB5

SHEET: **U1 6** OF 12

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R=706.80 I=703.55 L______ @ 0.41% 33'-16" STEEL-CASING, AUGERED B/WM=699.0~ T/WM = 697.2T/SAN=697.0 R=707.90 GR=707.7 4CONNECT TO I=702.00,E EXISTING SEWER I=697.08.W WITH TEE 6" FIRE & 2" DOMESTIC WATER SERVICE I=696.00,W W/DROP B/STM=703_1 8" WATER SERVICE I=692.80±(EXIST) PC1,8"X8" T/WM=698.5 21-6-@1.00% @ 0.40% R=706.85 CONNECT 10 I=703.98 A3D,1P R=707.30 I=704.26,4"I=703.67,12" R=707.10 REGARDING THE ELECTRIC SERVICE. METER SOCKETS, PT CABINET, CT CABINET, DISCONNECT CABINET) AND TRANSFORMER PAD/VAULT. THE CATALOG CUTS SHALL BE APPROVED BY DPU-E PRIOR TO PURCHASING. RESPONSIBLE FOR DELAYS RESULTING FROM NON-COMPLIANT CT/METER EQUIPMENT.

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PATEL PRAKASH 352 JENNIFER LANE ROSELLE, IL 60172

MARCH 04, 2022 JOB: 22-010

CONTROL MEASURE GROUP	CONTROL MEASURE	APPL.	KEY	CONTROL MEASURE CHARACTERISTICS	TEMP.	PERMNT	MAINTENANCE FREQUENCY
	TEMPORARY SEEDING		(ET	PROVIDES QUICK TEMPORARY COVER TO CONTROL EROSION WHEN PERMANENT SEEDING IS NOT DESIRED OR TIME OF YEAR IS INAPPROPRIATE.	×		REDO ANY FAILING AREAS.
VEGETATIVE	PERMANENT SEEDING	X	PS	PROVIDES PERMANENT VEGETATIVE COVER TO CONTROL EROSION, FILTERS SEDIMENT FROM WATER. MAY BE PART OF FINAL LANDSCAPE PLAN.		х	REDO 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.	х	×	RE-SEED IF NEEDED.
	SODDING		<u>so</u>	QUICK PERMANENT COVER TO CONTROL EROSION. QUICK WAY TO ESTABLISH VEGETATION FILTER STRIP. CAN BE USED ON STEEP SLOPES OR IN DRAINAGE WAYS WHERE SEEDING MAY BE DIFFICULT.		х	N/A
	MACHINE TRACKING		60	PROVIDES SOIL ROUGHING FOR EROSION CONTROL.	х		N/A
NON VEGETATIVE	POLYMER		P	ADDED INSURANCE OF A SUCCESSFUL TEMPORARY OR PERMANENT SEEDING. PROVIDES TEMPORARY COVER WHERE VEGETATION CANNOT BE ESTABLISHED.	х		REAPPLY EVERY $1\frac{1}{2}$ MONTHS.
SOIL COVER	AGGREGATE COVER		(AG)	PROVIDES SOIL COVER ON ROADS AND PARKING LOTS AND AREAS WHERE VEGETATION CANNOT BE ESTABLISHED. PREVENTS MUD FROM BEING PICKED UP AND TRANSPORTED OFF—SITE.	х	х	CLEAN UP DIRT FROM STONE AS NEEDED.
COVER	PAVING		(P)	PROVIDES PERMANENT COVER ON PARKING LOTS AND ROADS OR OTHER AREAS WHERE VEGETATION CANNOT BE ESTABLISHED.		х	N/A
	RIDGE DIVERSION		(RD)	TYPICALLY USED ABOVE SLOPES TO COLLECT FLOW AND TRANSFER DOWNSLOPE.	х	х	CLEAN SILT OUT WHEN HALF-FULL.
	CHANNEL DIVERSION		@	TYPICALLY USED TO DIVERT FLOW.	х	х	REPLACE PROTECTION WHEN NEEDED.
DIVERSIONS	COMBINATION DIVERSION		<u>©</u>	TYPICALLY USED ANYWHERE ON A SLOPE. SOIL TAKEN OUT OF CHANNEL IS USED TO BUILD THE RIDGE.	х	х	REPLACE PROTECTION WHEN NEEDED.
	CURB AND GUTTER		6	SPECIAL CASE OF DIVERSION USED IN CONJUNCTION WITH A STREET TO DIVERT WATER FROM AN AREA NEEDING PROTECTION.		х	N/A
	BENCHES		B	SPECIAL CASE OF DIVERSION CONSTRUCTED WHEN WORKING ON CUT SLOPES TO SHORTEN LENGTH OF SLOPE AND ADD SLOPE STABILITY.	Х	х	N/A
	VEGETATIVE CHANNEL		(vo	PROVIDED ADDED STABILITY TO CHANNEL. USED WHEN VELOCITY OF FLOW IS NOT EXTREMELY FAST.	х	х	REDO ANY FAILING AREAS.
WATERWAYS	LINED CHANNEL		(G)	USED WHEN VEGETATION WILL NOT PROTECT THE CHANNEL AGAINST HIGH VELOCITIES OF FLOW OR WHERE VEGETATION CANNOT BE ESTABLISHED.		х	REPLACE PROTECTION WHEN NEEDED.
ENCLOSED	STORM SEWER		(m)	CAN BE USED TO CONVEY SEDIMENT LADEN WATER TO SEDIMENT BASIN OR IN CONJUNCTION WITH A WATERWAY.		х	CLEAN SEDIMENT OUT.
DRAINAGE	UNDER DRAIN		(9)	USED TO LOWER WATER TABLE AND INTERCEPT GROUNDWATER FOR BETTER VEGETATION GROWTH AND SLOPE STABILITY. USED TO CARRY BASE FLOW IN WATERWAYS AND TO DEWATER SEDIMENT BASINS.		х	N/A
	STRAIGHT PIPE SPILLWAY		(P3)	USED FOR RELATIVELY SMALL VERTICAL DROPS AND SMALL FLOWS OF WATER.		х	CLEAN OUT CONSTRUCTION DEBRIS.
	DROP INLET PIPE SPILLWAY		DIS	SAME AS PIPE SPILLWAY EXCEPT LARGER FLOWS AND LARGE VERTICAL DROPS CAN BE ACCOMMODATED.		х	CLEAN OUT CONSTRUCTION DEBRIS.
SPILLWAYS	WEIR SPILLWAY		W	USED FOR RELATIVELY SMALL VERTICAL DROPS AND FLOWS MUCH GREATER THAN PIPE STRUCTURES.		х	CLEAN OUT CONSTRUCTION DEBRIS.
	BOX INLET WEIR SPILLWAY		BS	SAME AS WEIR SPILLWAY EXCEPT LARGER FLOWS CAN BE ACCOMMODATED BECAUSE OF LOWER WEIR LENGTH.		х	CLEAN OUT CONSTRUCTION DEBRIS.
OUTLETS	LINED APRON		(A)	PROTECTS DOWNSTREAM CHANNEL FROM HIGH VELOCITY OF FLOW DISCHARGING FROM STRUCTURES.		х	REPAIR DISLODGED STONES OR EROSION UNDER RIP—RAP AS NEEDED
SEDIMENT	SEDIMENT BASIN		(SB)	USED TO COLLECT SMALLER PARTICLES — DETAIN WATER WITH CONTROLLED RELEASE.	х	х	CLEAN SEDIMENT OUT WHEN HALF-FULL.
BASINS	SEDIMENT TRAP		জ	USED TO COLLECT LARGER PARTICLES — DETAIN WATER WITH CONTROLLED RELEASE.	х		CLEAN SEDIMENT OUT WHEN HALF-FULL.
SEDIMENT	SILT FENCE		(SF)	USED FOR SINGLE LOTS OR DRAINAGE AREAS LESS THAN 1/2 ACRE TO FILTER SEDIMENT FROM RUNOFF.	х		CLEAN SEDIMENT OUT WHEN SILT IS HALF-FULL. REPAIR ANY DAMAGED SILT
FILTERS	VEGETATIVE FILTER		(F)	USED ALONG DRAINAGE WAYS OR PROPERTY LINES TO FILTER SEDIMENT FROM RUNOFF. SIZE MUST BE INCREASED IN PROPORTION TO DRAINAGE AREA.	х		FENCE WHEN NEEDED. REDO ANY FAILING AREAS.
MUD AND	STABILIZED CONST. ENTRANCE		(SE)	PREVENT MUD FROM BEING PICKED UP AND CARRIED OFF-SITE.	х		SCRAPE MUD AND REPLACE STONE AS NEEDED.
DUST CONTROL	DUST CONTROL		(b)	PREVENTS DUST FROM LEAVING CONSTRUCTION SITE.	х		RE-APPLY AS NEEDED.
	EROSION CONTROL BLANKET		EB	PROTECTS SOIL, SEED AND HELPS GROW VEGETATION.	х	х	REPLACE AS NEEDED
	TURF REINFORCEMENT MAT		(M)	REINFORCES TURF IN CHANNELS AND SHORELINES.	х	х	REPLACE AS NEEDED
EROSION	CELLULAR CONFINEMENT		(CF)	USED TO HOLED TOPSOIL ON STEEP SLOPES.	х	х	REPLACE AS NEEDED
CONTROL	GABIONS		(GA)	USED TO PREVENT EROSION IN VERY HIGH FLOW AREAS.		х	REPLACE AS NEEDED
	GEOTEXTILE FABRIC		Œ	USED FOR EROSION / SEDIMENT CONTROL/ SEPARATION / STABILIZATION.	х	х	REPLACE AS NEEDED
	GEOBLOCK POROUS PAVEMENT		P	USED FOR FIRE LANE ACCESS / VEGETATIVE PAVEMENT.		х	REPLACE AS NEEDED
	INLET PROTECTION		FF	USED FOR PROTECTION OF INLETS.	х		REPLACE OR CLEAN WHEN CLOGGED.
	SLOPE INTERRUPT	1	SI	USED TO BREAK UP THE FLOW ON A SLOPE.	х	Х	CLEAN OUT WHEN HLAF-FULL OF SILT.
	DITCH CHECK	1	DIC	USED FOR FLOW SEDIMENT CONTROL IN SWALES AND CHANNELS.	х		CLEAN OUT WHEN HLAF-FULL OF SILT.
SEDIMENT	FLOC LOG	†	(fl.)	USED TO CLARIFY WATER THAT HAS SEDIMENT IN THE WATERY COLUMN.	х		REPLACE WHEN HALF DISSOLVED.
CONTROL	SILT CURTAIN		© ©	USED FOR SEDIMENT CONTROL IN STREAM / POND.	х		REPLACE WHEN FABRIC IS TORN OR HOLES BEGIN TO FORM.
	PUMPING DISCHARGE BAG	+	PB	USED FOR PUMP DISCHARGE LINES.	х		REPLACE WHEN HALF-FULL, FABRIC IS TOR OR HOLES BEGIN TO FORM.
	CONCRETE WASHOUT	+	©W)	FOR CONCRETE TRUCKS TO WASHOUT.	х		CLEAN OUT WHEN HALF-FULL, CLEAN WASHOUT GRAVEL AREA AS NEEDED.
	STREET SWEEPING		(SS)	USED TO PREVENT SILT BUILD UP IN STREETS.	×		CLEAN ONCE A WEEK, OR AS NEEDED

RIP-RAP DIMENSION TABLE

STRUCTURE NUMBER/POND	INLET PIPE SIZE d (IN)	DISCHARGE Q (CFS)	LENGTH OF APRON La (FT)	MEDIAN RIPRAP SIZE C (IN)	WIDTH OF APRON U/S FACE W1 (FT)	WIDTH OF APRON D/S FACE W2 (FT)	DEPTH OF RIP RAP d (IN)	AREA OF RIP RAP (SQ.YDS.)	VOLUME OF RIP RAP (CU.YDS.)
ALL	12		10	6	3.00	13.00	15	8.89	3.7
ALL	15		10	6	3.75	13.75	15	9.72	4.1
ALL	18		15	9	4.50	19.50	20	20.00	11.1
ALL	21		15	9	5.25	20.25	20	21.25	11.8
ALL	24		18	9	6.00	24.00	20	30.00	16.7
ALL	27		18	9	6.75	24.75	20	31.50	17.5
ALL	30		20	9	7.50	27.50	20	38.89	21.6
ALL	36		24	12	9.00	33.00	28	56.00	43.6
ALL	42		27	12	10.5	37.50	30	72.00	60.0
ALL	48		27	15	12.0	39.00	32	76.50	68.0
ALL	54		27	15	13.5	40.50	32	81.00	72.0
ALL	60		36	15	15.0	51.00	32	132.00	118.0
ALL	72		44	18	18.0	62.00	32	195.56	174.0

OBSERVATION	& MAINTENANCE	E SCHEDULE
ACTIVITY	RESPONSIBLE PARTY	DURATION
STABILIZATION DURING CONSTRUCTION— MAINTENANCE	CONTRACTOR	DURING CONSTRUCTION
STABILIZATION DURING CONSTRUCTION— OBSERVATION	DEVELOPER/OWNER	WEEKLY & AFTER EACH RAINFALL EVENT IN EXCESS OF 0.5".
VEGETATION MAINTENANCE	CONTRACTOR	1 YEAR FROM COMPLETION
VEGETATION STABILIZATION MAINTENANCE	DEVELOPER/OWNER	ONGOING FROM CONSTRUCTION COMPLETION

CONSTRUCTION SCHEDULE-2022-23 DESCRIPTION MON-1 MON-2 MON-3 MON-4 MON-5 MON-6 MON-7 MON-8 MON-9

I/ATHIS PLAN HAS BEEN PREPARED TO COMPLY WITH THE PROVISIONS OF NPDES PERMIT NUMBER ILR10, ISSUED BY THE LLINOIS ENVIRONMENTAL PROTECTION AGENCY FOR STORMWATER DISCHARGES FROM CONSTRUCTION SITE ACTIVITIES AND SOIL EROSION AND SEDIMENT CONTROL ORDINANCE FOR THE COUNTY.

SITE DESCRIPTION.

THE FOLLOWING IS A DESCRIPTION OF THE CONSTRUCTION ACTIVITY FOLLOWING MASS GRADING WHICH IS THE SUBJECT

THE PROPOSED DEVELOPMENT CONSISTS OF CONSTRUCTION OF ___DUNKIN' GO___ DEVELOPMENT THE CONSTRUCTION ACTIVITIES FOR SITE IMPROVEMENTS INCLUDE:

PAVEMENT CONSTRUCTION

- INSTALLATION OF UTILITIES INCLUDING STORM SEWERS SOIL EROSION AND SEDIMENTATION CONTROL MEASURES, AS A MINIMUM.
- THE FOLLOWING IS A DESCRIPTION OF THE INTENDED SEQUENCE OF MAJOR CONSTRUCTION ACTIVITIES WHICH WILL DISTURB SOILS FOR MAJOR PORTIONS OF THE SITE, SUCH AS GRUBBING, EXCAVATION, AND GRADING:
- THE SEQUENCE OF THE CONSTRUCTION ACTIVITIES MAY BE AS FOLLOWS: INSTALL SILT FILTER FENCE AND STABILIZED CONSTRUCTION ENTRANCE
- MASS GRADING
- UNDERGROUND UTILITIES INSTALLATION FINE GRADING IN PAVEMENT AREA

PAVEMENT CONSTRUCTION

THE SOIL EROSION AND SEDIMENTATION CONTROL ITEMS WILL BE INSTALLED FIRST AND AS NEEDED DURING THE ABOVE CONSTRUCTION ACTIVITIES.

- THE TOTAL ESTIMATED AREA OF THE SITE IS 0.53 ACRES. THE TOTAL ESTIMATED AREA OF THE SITE TO BE DISTURBED BY EXCAVATION, GRADING, OR OTHER ACTIVITIES IS 0.53 ACRES.
- THE ESTIMATED RUNOFF COEFFICIENTS OF THE SITE AFTER CONSTRUCTION ACTIVITIES ARE COMPLETED AND CONTAINED IN THE PROJECT DRAINAGE STUDY, TITLED STORM WATER MANAGEMENT FOR N/APREPARED BY ADVANTAGE CONSULTING ENGINEERS WHICH IS HEREBY INCORPORATED BY REFERENCE IN THIS PLAN.

THE ESTIMATED PROPOSED OVERALL SITE RUNOFF COEFFICIENT IS $_0.8$ EXISTING DATA DESCRIBING SOILS IS INCLUDED IN SOILS REPORT_____ OR NOT AVAILABLE

NAME OF RECEIVING WATER(S) EXISTING STORM SEWER NAME OF ULTIMATE RECEIVING WATER(S) FERRY CREEK

WETLAND ACREAGE N/A__

- POTENTIAL SOURCES OF POLLUTION ASSOCIATED WITH CONSTRUCTION ACTIVITY MAY INCLUDE:
- SEDIMENT FROM DISTURBED SOILS PORTABLE SANITARY STATIONS
- STAGING AREAS
- WASTE CONTAINERS CHEMICAL STORAGE AREAS
- OIL OR OTHER PETROLEUM PRODUCTS ADHESIVES
- SOLVENTS
- DETERGENTS **FERTILIZERS**
- RAW MATERIALS (E.G., BAGGED PORTLAND CEMENT) CONSTRUCTION DEBRIS
- LANDSCAPE WASTE
- CONCRETE AND CONCRETE TRUCKS LITTER

CONTROLS.

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

EROSION AND SEDIMENT CONTROLS.

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. EXCEPT AS PROVIDED IN 2. 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.

PERMANENTLY CEASES IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BY INITIATED AS SOON AS

WHERE THE INITIATION OF STABILIZATION MEASURES BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR

THE FOLLOWING INTERIM AND PERMANENT STABILIZATION PRACTICES, AS A MINIMUM, WILL BE IMPLEMENTED TO STABILIZE THE DISTURBED AREA OF THE SITE:

- PERMANENT SEEDING SILT FILTER FENCE
- VEGETATIVE FILTER STABILIZED CONSTRUCTION ENTRANCE
- 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.
 - A VOLUME CONTROL FACILITY STORM SEWER SYSTEM INLET PROTECTION
- DUST CONTROL: DUST CONTROL SHALL BE PROVIDED PER STANDARD 825 OF ILLINOIS URBAN MANUAL. THE FOLLOWING METHODS FOR THE DUST CONTROL CAN BE USED.
 - IRRIGATION SPRAY ON ADHESIVE
 - VEGETATIVE COVER MULCHING
- STORM WATER MANAGEMENT.

PROVIDED BELOW IS A DESCRIPTION OF MEASURES THAT WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS TO CONTROL POLLUTANTS IN STORM WATER 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.

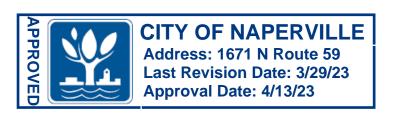
THE STORM WATER POLLUTANT CONTROL MEASURES SHALL INCLUDE:

- BARRIER FILTERS STORM SEWERS
- PERMANENT SEEDING INLET PROTECTION
- 5. 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).

STORM WATER MANAGEMENT CONTROL INCLUDES:

APPROVED STATE OR LOCAL PLANS.

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, 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 OR SITE PERMITS OR 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.



WASTE MANAGEMENT

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 CONTRACTORS. THE CONTRACTORS ARE RESPONSIBLE TO ACQUIRE THE PERMIT REQUIRED FOR SUCH DISPOSAL. BURNING ON SITE WILL NOT BE PERMITTED. NO SOLID MATERIALS. INCLUDING BUILDING MATERIALS. SHALL BE DISCHARGED TO WATERS OF THE STATE. EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT. ALL WASTE MATERIALS SHOULD BE COLLECTED AND STORED IN APPROVED RECEPTACLES. NO WASTES SHOULD BE PLACED IN ANY LOCATION OTHER THAN IN THE APPROVED CONTAINERS APPROPRIATE FOR THE MATERIALS BEING DISCARDED. THERE SHOULD BE NO LIQUID WASTES DEPOSITED INTO DUMPSTERS OR OTHER CONTAINERS WHICH MAY LEAK. RECEPTACLES WITH DEFICIENCIES SHOULD BE REPLACED AS SOON AS POSSIBLE AND THE APPROPRIATE CLEAN-UP PROCEDURE SHOULD TAKE PLACE, IF NECESSARY. CONSTRUCTION WASTE MATERIAL IS NOT TO BE BURIED ON SITE. WASTE DISPOSAL SHALL COMPLY WITH ALL LOCAL, STATE. AND FEDERAL REGULATIONS.

ON-SITE HAZARDOUS MATERIAL STORAGE SHOULD BE MINIMIZED AND STORED IN LABELED, SEPARATE RECEPTACLES FROM NON-HAZARDOUS WASTE. ALL HAZARDOUS WASTE SHOULD BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATIONS OR BY THE MANUFACTURER.

8. CONCRETE WASTE MANAGEMENT

CONCRETE WASTE OR WASHOUT IS NOT ALLOWED IN THE STREET OR ALLOWED TO REACH A STORM WATER DRAINAGE SYSTEM OR WATERCOURSE. WHEN PRACTICABLE, A SIGN SHOULD BE POSTED AT EACH LOCATION TO IDENTIFY THE WASHOUT, TO THE EXTENT PRACTICABLE, CONCRETE WASHOUT AREAS SHOULD BE LOCATED A REASONABLE DISTANCE FROM A STORM WATER DRAINAGE INLET OR WATERCOURSE, AND SHOULD BE LOCATED AT LEAST 10 FEET BEHIND THE CURB, IF THE WASHOUT AREA IS ADJACENT TO A PAVED ROAD. A STABILIZED ENTRANCE THAT MEETS ILLINOIS URBAN MANUAL STANDARDS SHOULD BE INSTALLED AT EACH WASHOUT AREA.

THE CONTAINMENT FACILITIES SHOULD BE OF SUFFICIENT VOLUME TO COMPLETELY CONTAIN ALL LIQUID AND CONCRETE WASTE MATERIALS INCLUDING ENOUGH CAPACITY FOR ANTICIPATED LEVELS OF RAINWATER. THE DRIED CONCRETE WASTE MATERIAL SHOULD BE PICKED UP AND DISPOSED OF PROPERLY WHEN 66% CAPACITY IS REACHED. HARDENED CONCRETE CAN BE PROPERLY RECYCLED AND USED AGAIN ON SITE (AS APPROVED BY THE ENGINEER) OR HAULED OFF SITE TO AN APPROPRIATE LANDFILL.

CONCRETE CUTTING

CONCRETE WASTE MANAGEMENT SHOULD BE IMPLEMENTED TO CONTAIN AND DISPOSE OF SAW-CUTTING SLURRIES. CONCRETE CUTTING SHOULD NOT TAKE PLACE DURING OR IMMEDIATELY AFTER A RAINFALL EVENT. WASTE GENERATED FROM CONCRETE CUTTING SHOULD BE CLEANED-UP AND DEPOSITED INTO THE CONCRETE WASHOUT FACILITY AS DESCRIBED ABOVE.

10. VEHICLE STORAGE AND MAINTENANCE

WHEN NOT IN USE, CONSTRUCTION VEHICLES SHOULD BE STORED IN A DESIGNATED AREA(S) OUTSIDE OF THE REGULATORY FLOODPLAIN, AWAY FROM ANY NATURAL OR CREATED WATERCOURSE, POND, DRAINAGE-WAY OR STORM DRAIN. CONTROLS SHOULD BE INSTALLED TO MINIMIZE THE POTENTIAL OF RUNOFF FROM THE STORAGE AREA(S) FROM REACHING STORM DRAINS OR WATER COURSES. VEHICLE MAINTENANCE (INCLUDING BOTH ROUTINE MAINTENANCE AS WELL AS ON-SITE REPAIRS) SHOULD BE MADE WITHIN A DESIGNATED AREA(S) TO PREVENT THE MIGRATION OF MECHANICAL FLUIDS (OIL, ANTIFREEZE, ETC.) INTO WATERCOURSES, WETLANDS OR STORM DRAINS. DRIP PANS OR ABSORBENT PADS SHOULD BE USED FOR ALL VEHICLE AND FOLIPMENT MAINTENANCE ACTIVITIES THAT INVOLVE GREASE OIL. SOLVENTS, OR OTHER VEHICLE FLUIDS. CONSTRUCTION VEHICLES SHOULD BE INSPECTED FREQUENTLY TO IDENTIFY ANY LEAKS; LEAKS SHOULD BE REPAIRED IMMEDIATELY OR THE VEHICLE SHOULD BE REMOVED FROM SITE. DISPOSE OF ALL USED OIL, ANTIFREEZE, SOLVENTS AND OTHER VEHICLE-RELATED CHEMICALS IN ACCORDANCE WITH UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (USEPA) AND IEPA REGULATIONS AND PER MATERIAL SAFETY DATA SHEET (MSDS) AND/OR MANUFACTURER INSTRUCTIONS. CONTRACTORS SHOULD IMMEDIATELY REPORT SPILLS TO THE PRIMARY

11. MATERIAL STORAGE AND GOOD HOUSEKEEPING

MATERIALS AND/OR CONTAMINANTS SHOULD BE STORED IN A MANNER THAT MINIMIZES THE POTENTIAL TO DISCHARGE INTO STORM DRAINS OR WATERCOURSES. AN ON-SITE AREA SHOULD BE DESIGNATED FOR MATERIAL DELIVERY AND STORAGE. ALL MATERIALS KEPT ON SITE SHOULD BE STORED IN THEIR ORIGINAL CONTAINERS WITH LEGIBLE LABELS, AND IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE. LABELS SHOULD BE REPLACED IF DAMAGED OR DIFFICULT TO READ. BERMED-OFF STORAGE AREAS ARE AN ACCEPTABLE CONTROL MEASURE TO PREVENT CONTAMINATION OF STORM WATER. MATERIAL SAFETY DATA SHEETS (MSDS) SHOULD BE AVAILABLE FOR REFERENCING CLEAN-UP PROCEDURES. ANY RELEASE OF CHEMICALS/CONTAMINANTS SHOULD BE IMMEDIATELY CLEANED UP AND DISPOSED OF PROPERLY. CONTRACTORS SHOULD IMMEDIATELY REPORT ALL SPILLS TO THE PRIMARY CONTACT, WHO SHOULD NOTIFY THE APPROPRIATE AGENCIES, IF NEEDED.

THE FOLLOWING GOOD HOUSEKEEPING PRACTICES SHOULD BE FOLLOWED ON SITE DURING THE CONSTRUCTION PROJECT: AN EFFORT SHOULD BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.

ALL MATERIALS STORED ON SITE SHOULD BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND ADEQUATELY PROTECTED FROM THE ENVIRONMENT. PRODUCTS SHOULD BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL. SUBSTANCES SHOULD NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER. OPERATIONS SHOULD BE OBSERVED AS NECESSARY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ON SITE. WHENEVER POSSIBLE, ALL OF A PRODUCT SHOULD BE USED BEFORE DISPOSING OF THE CONTAINER.

MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL SHALL BE FOLLOWED.

MANAGEMENT OF PORTABLE SANITARY STATIONS

TO THE EXTENT PRACTICABLE, PORTABLE SANITARY STATIONS SHOULD BE LOCATED IN AN AREA THAT DOES NOT DRAIN TO ANY PROTECTED NATURAL AREAS, WATERS OF THE STATE, OR STORM WATER STRUCTURES AND SHALL BE ANCHORED TO THE GROUND TO PREVENT FROM TIPPING OVER. PORTABLE SANITARY STATIONS LOCATED ON IMPERVIOUS SURFACES SHOULD BE PLACED ON TOP OF A SECONDARY CONTAINMENT DEVICE. OR BE SURROUNDED BY A CONTROL DEVICE (E.G., GRAVEL—BAG BERM). THE CONTRACTOR SHOULD PREVENT/AVOID UNSANITARY COND SANITARY WASTE SHOULD BE DISPOSED OF IN ACCORDANCE WITH APPLICABLE STATE AND/OR LOCAL REGULATIONS.

13. SPILL PREVENTION AND CLEAN-UP PROCEDURES

MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEAN-UP SHOULD BE AVAILABLE AND SITE PERSONNEL SHOULD BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEAN-UP SUPPLIES. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEAN-UP SHOULD BE KEPT IN THE MATERIAL STORAGE AREA ON SITE. EQUIPMENT AND MATERIALS SHOULD INCLUDE, BUT ARE NOT LIMITED TO, BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAWDUST AND PLASTIC AND/OR METAL TRASH CONTAINERS SPECIFICALLY FOR THIS

DE-WATERING OPERATIONS

DURING DE-WATERING/PUMPING OPERATIONS, ONLY UNCONTAMINATED WATER SHOULD BE ALLOWED TO DISCHARGE TO PROTECTED NATURAL AREAS, WATERS OF THE STATE, OR TO A STORM SEWER SYSTEM (IN ACCORDANCE WITH LOCAL PERMITS). INLET HOSES SHOULD BE PLACED IN A STABILIZED SUMP PIT OR FLOATED AT THE SURFACE OF THE WATER IN ORDER TO LIMIT THE AMOUNT OF SEDIMENT INTAKE. PUMPING OPERATIONS MAY BE DISCHARGED TO A STABILIZED AREA THAT CONSISTS OF AN ENERGY DISSIPATING DEVICE (E.G., STONE), SEDIMENT FILTER BAG, OR BOTH. ADEQUATE EROSION CONTROLS SHOULD BE USED DURING DE-WATERING OPERATIONS AS NECESSARY. STABILIZED CONVEYANCE CHANNELS SHOULD BE INSTALLED TO DIRECT WATER TO THE DESIRED LOCATION AS APPLICABLE, ADDITIONAL CONTROL MEASURES MAY BE INSTALLED AT THE OUTLET AREA AT THE DISCRETION OF THE PRIMARY CONTACT OR ENGINEER.

15. OFF-SITE VEHICLE TRACKING

THE SITE SHOULD HAVE ONE OR MORE STABILIZED CONSTRUCTION ENTRANCES IN CONFORMANCE WITH THE PLAN DETAILS. STABILIZED CONSTRUCTION ENTRANCE(S) SHOULD BE INSTALLED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. STREETS SHOULD BE SWEPT AS NEEDED TO REDUCE EXCESS SEDIMENT, DIRT, OR STONE TRACKED FROM THE SITE. MAINTENANCE MAY INCLUDE: TOP DRESSING THE STABILIZED ENTRANCE WITH ADDITIONAL STONE AND REMOVING TOP LAYERS OF STONE AND SEDIMENT, AS NEEDED. VEHICLES HAULING ERODIBLE MATERIAL TO AND FROM THE CONSTRUCTION SITE SHOULD BE COVERED WITH A TARP.

16. TOPSOIL STOCKPILE MANAGEMENT

IF TOPSOIL IS TO BE STOCKPILED AT THE SITE, SELECT A LOCATION SO THAT IT WILL NOT ERODE, BLOCK DRAINAGE, OR INTERFERE WITH WORK ON SITE. TOPSOIL STOCKPILES SHALL NOT BE LOCATED IN THE 100-YEAR FLOODPLAIN OR DESIGNATED BUFFER PROTECTING WATERS OF THE STATE. DURING CONSTRUCTION OF THE PROJECT, SOIL STOCKPILES SHOULD BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. PERIMETER CONTROLS, SUCH AS SILT FENCE, SHOULD BE PLACED AROUND THE STOCKPILE IMMEDIATELY. STABILIZATION OF THE STOCKPILE SHOULD BE COMPLETED IF THE STOCKPILE IS TO REMAIN UNDISTURBED FOR LONGER THAN FOURTEEN (14) DAYS.

3. <u>MAINTENANCE</u>

THE FOLLOWING IS A DESCRIPTION OF PROCEDURES TO WILL BE USED TO MAINTAIN GOOD AND EFFECTIVE OPERATING CONDITIONS, VEGETATION, EROSION AND SEDIMENT CONTROL MEASURES AND OTHER PROTECTIVE MEASURES IDENTIFIED IN THIS PLAN AND STANDARD SPECIFICATIONS.

- 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 STONE, REMOVE AND REPLACE TOP LAYER OF STONE OR WASHING THE ENTRANCE. THE SEDIMENT WASHED ON THE PUBLIC RIGHT-OF-WAY WILL BE REMOVED IMMEDIATELY.
- VEGETATIVE EROSION CONTROL MEASURES: THE VEGETATIVE GROWTH OF TEMPORARY AND PERMANENT SEEDING, SODDING, VEGETATIVE CHANNELS, VEGETATIVE FILTER, ETC. SHALL BE MAINTAINED PERIODICALLY AND SUPPLY ADEQUATE WATERING AND FERTILIZER. THE VEGETATIVE COVER SHALL BE REMOVED AND RESEEDED AS
- ORIGINAL CAPACITY IS OCCUPIED BY SEDIMENT. IN NO CASE SHALL SEDIMENT BE ALLOWED TO BUILT UP TO MORE THAN 1 FOOT BELOW THE CREST ELEVATION. AT THIS STAGE, THE BASIN SHALL BE CLEANED OUT TO

SEDIMENTATION BASINS/TRAPS: SEDIMENTS SHALL BE REMOVED WHEN 40-50 PERCENT OF THE TOTAL

- SILT FILTER FENCE: ANY DAMAGED SILT FILTER FENCE SHALL BE RESTORED TO MEET THE STANDARDS OR REMOVED AND REPLACED AS NEEDED
- RIP-RAP OUTLET PROTECTION: INSPECTED SHALL OCCUR AFTER HIGH FLOWS FOR ANY SCOUR BENEATH THE RIP—RAP OR FOR STONE THAT HAVE BEEN DISLODGED. DISTURBED RIP RAP SHALL BE REPAIRED IMMEDIATELY.
- F DUST CONTROL: WHEN TEMPORARY DUST CONTROL MEASURES ARE USED, REPETITIVE TREATMENT SHOULD BE APPLIED AS NEEDED TO ACCOMPLISH CONTROL.

4. <u>INSPECTIONS</u>

- THE OWNER, OR OWNER'S REPRESENTATIVE SHALL PROVIDE QUALIFIED PERSONNEL TO INSPECT THE DISTURBED AREAS OF THE SITE UNDER CONSTRUCTION WHICH HAVE NOT BEEN STABILIZED, ALL STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES OR GREATER OR
- 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
- 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 7 CALENDAR DAYS FOLLOWING THE INSPECTION.
- 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 STORM WATER POLLUTION PREVENTION PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH SECTION 4. 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 APPLICABLE PART OF THE GENERAL PERMIT.
- 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 PERMIT. THE REPORT OF NONCOMPLIANCE SHALL BE MAILED TO THE FOLLOWING

ALL PACKAGES: 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

5. NON-STORM WATER DISCHARGES

EXCEPT FOR FLOWS FROM FIRE FIGHTING ACTIVITIES, POSSIBLE SOURCES OF NON-STORM WATER THAT MAY BE COMBINED WITH STORM WATER DISCHARGES ASSOCIATED WITH THE PROPOSED ACTIVITY, ARE DESCRIBED BELOW:

- FIRE FIGHTING ACTIVITIES FIRE HYDRANT FLUSHINGS
- WATER USED TO WASH VEHICLES WHERE DETERGENTS ARE NOT USED WATER USED TO CONTROL DUST
- POTABLE WATER SOURCES INCLUDING UNCONTAMINATED WATERLINE FLUSHINGS LANDSCAPE IRRIGATION DRAINAGES
- ROUTINE EXTERNAL BUILDING WASHDOWN WHICH DOES NOT USE DETERGENTS PAVEMENT WASH WATERS WHERE SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE NOT OCCURRED (UNLESS SPILLED MATERIALS HAVE BEEN REMOVED) AND WHERE DETERGENTS HAVE NOT BEEN USED.
- IRRIGATION DITCHES

OF THIS CERTIFICATION.

Signature:

UNCONTAMINATED GROUND WATER FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH PROCESS MATERIALS SUCH AS

6. PROHIBITED NON-STORMWATER DISCHARGES

UNCONTAMINATED AIR CONDITIONING CONDENSATE

- CONCRETE AND WASTEWATER FROM WASHOUT OF CONCRETE (UNLESS MANAGED BY AN APPROPRIATE CONTROL) DRYWALL COMPOUND
- WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT FORM RELEASE OILS
- CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE OR EQUIPMENT OPERATION AND MAINTENANCE
- SOAPS, SOLVENTS, OR DETERGENTS TOXIC OR HAZARDOUS SUBSTANCES FROM A SPILL OR OTHER RELEASE
- ANY OTHER POLLUTANT THAT COULD CAUSE OR TEND TO CAUSE WATER POLLUTION

NPDES CONTRACTOR CERTIFICATE

THIS CERTIFICATION STATEMENT IS A PART OF THE STORM WATER POLLUTION PREVENTION PLAN FOR THE PROJECT DESCRIBED BELOW, IN ACCORDANCE WITH NPDES PERMIT NO. ILRO0000000, ISSUED BY THE ENVIRONMENTAL PROTECTION AGENCY ON

PROJECT TITLE: NAME PROJECT LOCATION: COUNTY ILLINOIS

CITY/VILLAGE COUNTY **DEVELOPER:** CLIENT

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS OF THE GENERAL NATIONAL

POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART

	CONTRACTOR/SUBCONTRACTOR	CERTIFICATION STATEMENT
	Name:	Signature
_		
-		
-		
-		

STABIL TYPE	IZATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ост.	NOV.	DEC.
PERM/ SEEDII	WENT NG			+ <u>A</u>			_•_	_•-		-			
DORM/ SEEDII	NT NG	l _B		-								+8	-
TEMPO SEEDII	ORARY NG			ţ <u>c</u>			_	+ D		_			
SODDI	NG			+ _{E++}						_			
MULCI	IING	ļ _F											
MOLCI	111149												

KENTUCKY BLUEGRASS 90 LBS/ACRE MIXED WITH PERENNIAL RYEGRASS 30 LBS/ACRE.

 IRRIGATION NEEDED DURING JUNE AND JULY. IRRIGATION NEEDED FOR 2 TO 3 WEEKS AFTER APPLYING SOD. *** MOW LAWNS AS NECESSAR' KENTUCKY BLUEGRASS 135 LBS/ACRE MIXED WITH PERENNIAL RYEGRASS 45 LBS/ACRE + STRAW MULCH 2 TONS/ACRE

SPRING OATS 100 LBS/ACRE WHEAT OR CEREAL RYE 150 LBS/ACRE. STRAW MULCH 2 TONS/ACRE.

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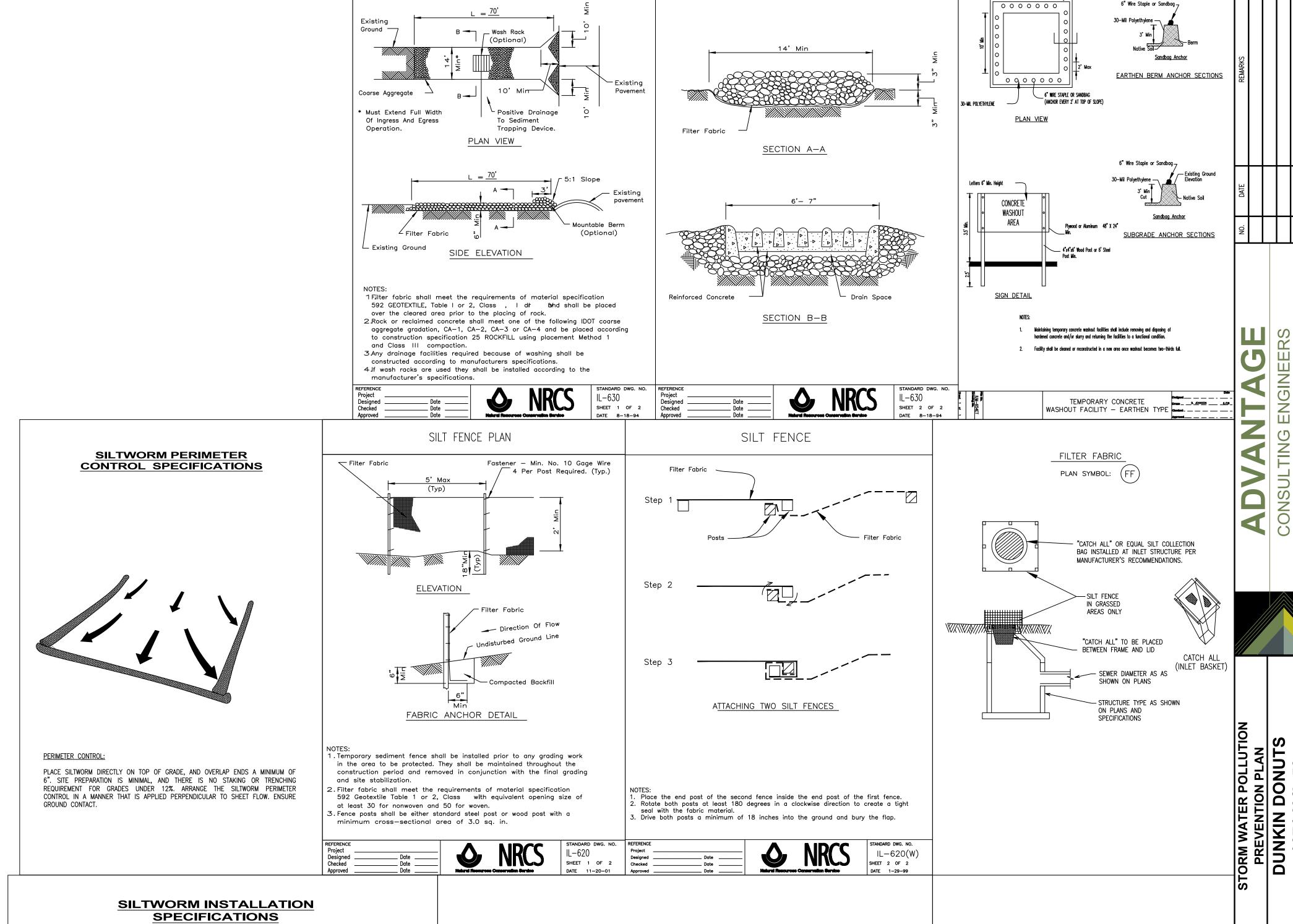
SHEET:

MARCH 04, 2022

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STABILIZED CONSTRUCTION ENTRANCE PLAN

STABILIZED CONSTRUCTION ENTRANCE PLAN

			-		
SILTW	ORM HEIGHTS	INSTALLED			
	INOTALLED LIFTOLIT	INIOTALLED LIFTOUT		MINIMUM SF	PECIFICATION FOR
NOMINAL DIAMETER, D	INSTALLED HEIGHT OF SINGLE			PROPERTY	UNITS
MAMIETER, D	SILTWORM	SILTWORM		PH	PH
9"	7.5"	15"		MOISTURE CONTENT	% WET WEIGHT BASIS
12"	9.5"	19"		PARTICLE SIZE	% PASSING SELECTED
18"	14.5"	29"			MESH SIZE, DRY WEIGHT BASIS
24"	19"	38"			
			•		

SILTWORM CAN BE PLACED IN DITCHES OR AT THE TOP, ON THE FACE, OR AT THE TOE OF A SLOPE AS SEDIMENT TRAPPING DEVICE. SILTWORM CAN ALSO SERVE TO REMOVE SEDIMENT FROM RUNOFF AND RELEASE FILTERED WATER AS SHEET FLOW.

SILTWORM

RANGE

5.0-8.5

<20

1 ½"-2"-90%
FINES = 10%
MAX. PARTICLE
SIZE 2"

SILTWORM INSTALLATION ON A SLOPE SHALL BE PLACED ALONG OR ON THE GROUND CONTOUR. WHERE POSSIBLE SILTWORM APPLIED TO THE TOE OF A SLOPE SHOULD BE PLACED 10 FEET AWAY FROM THE TOE IN ORDER TO PROVIDE SPACE FOR SEDIMENT STORAGE. MAXIMUM DRAINAGE AREA SHALL BE 1/4 ACRE PER 100 LF OF SILTWORM.

FOR DITCH APPLICATIONS, THE MAXIMUM DRAINAGE ARE SHALL BE 15 ACRES, AT SITES WHICH OUTFALL TO EXCEPTIONAL WATER OR SEDIMENT-IMPAIRED STREAMS, THE MAXIMUM DRAINAGE AREA SHALL BE LIMITED TO 10 ACRES.

SILTWORM SHALL BE PLACED PERPENDICULAR TO THE FLOW OF WATER. SILTWORM SHALL CONTINUE UP THE SIDE SLOPES TO THE UP OF BANK OR A MAXIMUM OF 3 FEET ABOVE THE INSTALLED HEIGHT. SILTWORM SHALL REMAIN IN PLACE UNTIL ALL UPSTREAM AREAS ARE PERMANENTLY STABILIZED.

SILTWORM IS SUPPLIED AND INSTALLED IN DIAMETERS OF 9", 12", 18" OR 24"
DIAMETER TOLERANCES ARE 2". SILTWORM WILL FLATTEN OUT TO AN OVAL WHEN IN
PLACE, THUS THE INSTALLED HEIGHT WILL BE LESS THAN NOMINAL DIAMETER.

SILTWORM SHALL BE INSPECTED AFTER EACH RUNOFF EVENT AND SHALL BE

RILLS ARE OBSERVED.

SILTWORM SHOULD BE REMOVED FROM SLOPES AFTER STABILIZATION IS COMPLETE. THIS MAY BE ACCOMPLISHED BY CUTTING THE SILTWORM OPEN AND SPREADING THE FILL MATERIAL ON THE SITE. SILTWORM APPLIED IN DITCH SHALL BE COMPLETELY REMOVED.

REMOVED AND REPLACED IF SIGNS OF UNDERCUTTING OR DOWNSTREAM SPACING

	SILTWOR	M DITCH CHEC	CK DAM ESTIN	MATED QUAN	TITIES	
		V - DITCH (1)		TRAPEZOIDAL DITCH (2)		
	24" SILTWORM (INSTALLED HEIGHT 19")	12" SILTWORM (INSTALLED HEIGHT 19")	18" SILTWORM (INSTALLED HEIGHT 29")	24" SILTWORM (INSTALLED HEIGHT 19")	12" SILTWORM (INSTALLED HEIGHT 19")	18" SILTWORM (INSTALLED HEIGHT 29")
LENGTH (FT)	20	60	48	24	72	60

(1) ESTIMATED QUANTITIES BASED ON A 4:1 SIDE SLOPE. QUANTITIES WILL VARY BASED ON ACTUAL DITCH CONFIGURATION

QUANTITIES WILL VARY BASED ON ACTUAL DITCH CONFIGURATION

(2) ESTIMATED QUANTITIES BASED ON A 4 FT BOTTOM WIDTH, 4 FT DEPTH, AND 4:1 SIDE SLOPES.



DITCH CHECK:

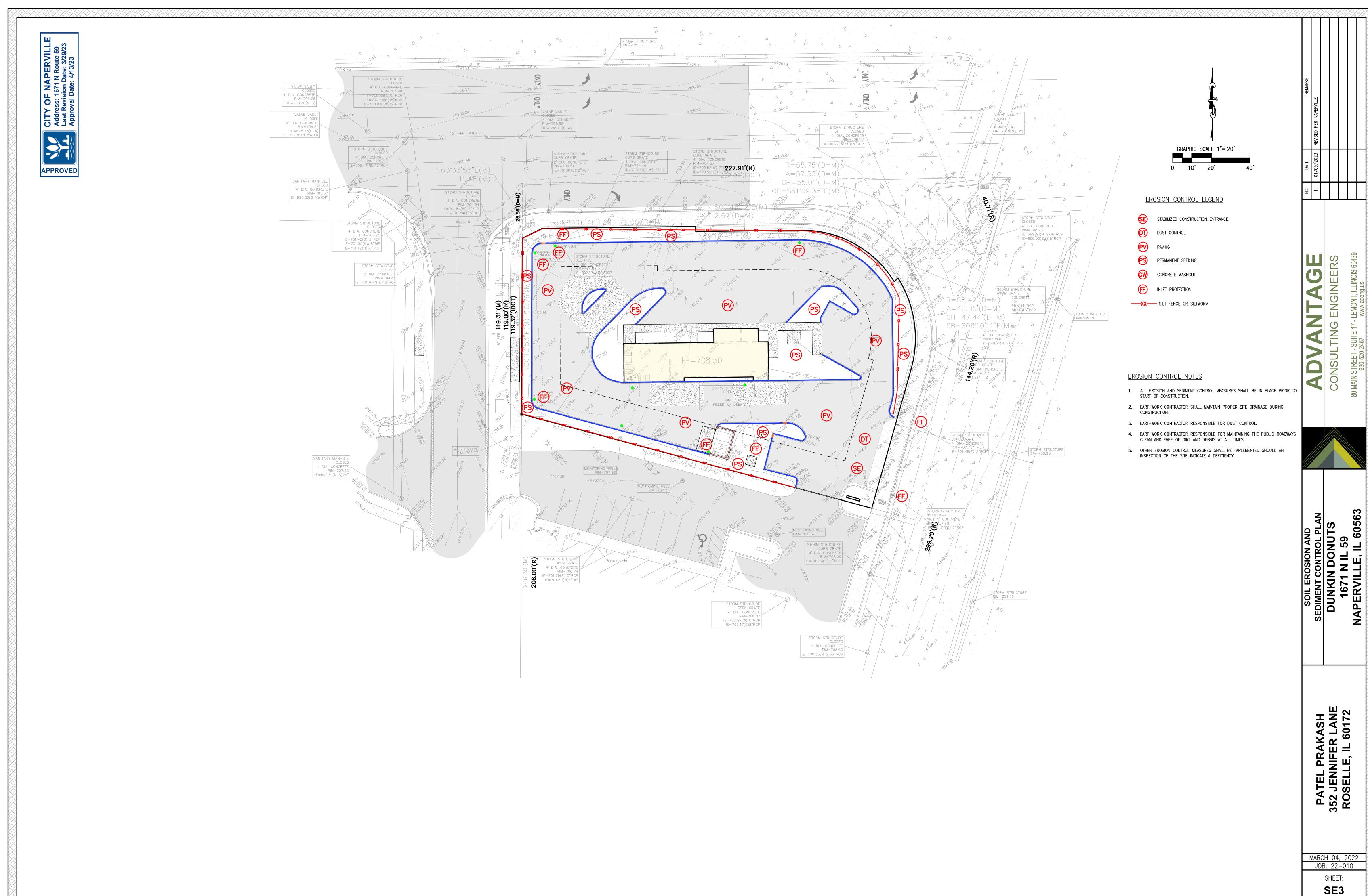
PLACE SILTWORM PERPENDICULAR TO CONCENTRATED FLOW. STAKE THE SILTWORM EVERY 4' AND OVERLAP THE ENDS BY 2' INSTALLED WITH A SLIGHT SADDLING, AND STAKE EVERY 4'.

SILTWORM SPACIN	IG FOR DITCH					
APPLICATION						
DITCH SLOPE	MAXIMUM SILTWORM SPACING					
2%	80'					
3%	80'					
4%	50'					
5%	30'					
6%	20'					
GREATER THAN 6%	20'					
BASED ON INSTALLED HEIGHT OF 19".						

BASED ON INSTALLED HEIGHT OF 19".
SEE TABLE ON EC-STA-6 FOR OTHER
HEIGHTS

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EXCAVATION OF TOPSOIL AND OTHER STRUCTURALLY UNSUITABLE MATERIALS WITHIN THOSE AREAS THAT WILL REQUIRE EARTH EXCAVATION BELOW STRUCTURALLY UNSUITABLE MATERIALS OR COMPACTED EARTH FILL MATERIAL, AND CUT AREAS OF THE NON-STRUCTURAL ZONES. TOPSOIL MAY NOT HAVE TO BE REMOVED IF FILL IS TO BE PLACED IN NON-STRUCTURAL FILL AREAS SUCH AS REAR YARDS.

PLACEMENT OF EXCAVATED MATERIAL FOR FUTURE USE WITHIN AREAS TO BE LANDSCAPED, AND FILL IN THE AREAS NOT REQUIRING STRUCTURAL FILL ARE TO BE APPROVED BY OWNER PRIOR TO PLACEMENT.

EXCESS MATERIALS, IF NOT UTILIZED AS FILL OR IF NOT TO BE STOCKPILED FOR FUTURE LANDSCAPING, SHALL BE COMPLETELY REMOVED FROM THE CONSTRUCTION SITE AND DISPOSED OF OFF-SITE BY THE CONTRACTOR. TOPSOIL RESPREAD SHALL INCLUDE HAULING AND SPREADING A MINIMUM OF 6" OF TOPSOIL OVER AREAS TO BE LANDSCAPED WHERE SHOWN ON THE PLANS OR DIRECTED BY THE OWNER.

MODERATE COMPACTION IS REQUIRED IN NON-STRUCTURAL FILL AREAS.

2. EARTH EXCAVATION

EXCAVATION OF EARTH AND OTHER MATERIALS WHICH ARE SUITABLE FOR USE AS STRUCTURAL FILL. THE EXCAVATION SHALL BE TO WITHIN A TOLERANCE OF 0.1 FEET +/- OF THE PLAN SUBGRADE ELEVATIONS. THE +/- TOLERANCE WITHIN PAVEMENT AREAS SHALL BE SUCH THAT THE EARTH MATERIALS SHALL "BALANCE" AS PART OF THE FINE GRADING OPERATION. PLACEMENT OF THE EARTH AND OTHER SUITABLE MATERIALS SHALL BE WITHIN THOSE AREAS REQUIRING STRUCTURAL FILL IN ORDER TO ACHIEVE THE

PLAN SUBGRADE ELEVATIONS TO WITHIN A TOLERANCE OF 0.1 FEET +/-. THE FILL MATERIAL SHALL BE PLACED IN LOOSE LIFTS THAT SHALL NOT EXCEED EIGHT (8) INCHES IN THICKNESS, AND THE WATER CONTENT SHALL BE ADJUSTED IN ORDER TO ACHIEVE REQUIRED COMPACTION. EARTH MATERIAL MAY BE PLACED WITHIN THOSE PORTIONS OF THE SITE NOT REQUIRING STRUCTURAL FILL, TO WITHIN PLAN SUBGRADE ELEVATION. IN AREAS REQUIRING STRUCTURAL FILL, HOWEVER, 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.

COMPACTION OF THE EARTH AND OTHER SUITABLE MATERIALS, SHALL BE TO AT LEAST 95% OF THE MODIFIED PROCTOR DRY DENSITY WITHIN PROPOSED PAVEMENT AND BUILDING PAD AREAS, SIDEWALK, ETC., 90% TO 95% OF THE MODIFIED PROCTOR DRY DENSITY IS REQUIRED IN

THE CONTRACTOR SHALL USE CARE IN GRADING NEAR TREES, SHRUBS, AND BUSHES WHICH ARE TO REMAIN SO AS NOT TO CAUSE INJURY TO

THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATING NEAR ALL EXISTING ITEMS WHICH ARE TO BE REMAIN. ANY DAMAGE DONE TO THESE EXISTING ITEMS BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT HIS OWN EXPENSE.

3. UNSUITABLE MATERIAL

INSUITABLE MATERIAL SHALL BE CONSIDERED AS MATERIAL WHICH IS NOT SUITABLE FOR THE SUPPORT OF PAVEMENT OR BUILDING CONSTRUCTION, AND IF IT IS ENCOUNTERED BELOW NORMAL TOPSOIL DEPTHS AND THE PROPOSED SUBGRADE ELEVATION IT SHALL BE REMOVED AND REPLACED WITH SELECT GRANULAR MATERIAL APPROVED BY THE SOILS ENGINEER. THE DECISION TO REMOVE SAID MATERIAL, AND TO WHAT EXTENT, SHALL BE MADE BY A SOILS ENGINEER WITH THE CONCURRENCE OF THE OWNER.

4. THE GRADING CONTRACTOR SHALL:

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

SPREAD AND COMPACT UNIFORMLY TO THE DEGREE SPECIFIED FOR ALL EXCESS TRENCH SPOIL AFTER COMPLETION OF THE UNDERGROUND IMPROVEMENTS. SCARIFY AND COMPACT TO THE DEGREE SPECIFIED THE UPPER TWELVE (12) INCHES OF THE SUITABLE SUBGRADE MATERIAL, IN ALL AREAS THAT MAY BE SOFT DUE TO EXCESS MOISTURE CONTENT. THIS APPLIES TO CUT AREAS AS WELL AS FILL AREAS.

PROVIDE WATER AS DIRECTED BY SOILS ENGINEER TO DRY MATERIAL TO ADJUST THE MOISTURE CONTENT FOR THE PURPOSE OF ACHIEVING THE SPECIFIED COMPACTION.

BACKFILL THE CURB AND GUTTER AFTER ITS CONSTRUCTION AND PRIOR TO THE PLACEMENT OF THE BASE COURSE MATERIAL. BE RESPONSIBLE FOR IMPLEMENTATION OF THE "SOIL EROSION AND SEDIMENTATION CONTROL MEASURES" AS DESCRIBED IN THESE PLANS. ALL CONTRACTORS SHALL COMPLY WITH SWPPP AND NPDES REQUIREMENTS.

USE LIME STABILIZATION IN THE SUBGRADE MATERIAL IF REQUIRED BY THE SOILS ENGINEER.

TESTING AND FINAL ACCEPTANCE

SEDIMENTATION AND TRAFFIC.

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

ANY UNSUITABLE AREA ENCOUNTERED AS A RESULT OF PROOF ROLLING SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL APPROVED BY THE SOILS CONSULTANT, AND PROOF ROLLING SHALL BE PERFORMED UNTIL THE SUBGRADE IS APPROVED BY THE GRA REPRESENTATIVE AND OWNER. THE WORK AREAS SHALL BE POSITIVELY DRAINED DURING CONSTRUCTION. FINAL GRADES SHALL BE PROTECTED AGAINST DAMAGE FROM EROSION,

6. DRAIN TILES

ANY DRAIN TILES ENCOUNTERED SHALL BE MARKED. ANY DRAIN TILES THAT ARE DAMAGED SHALL BE REPAIRED OR ROUTED FOR POSITIVE DRAINAGE TO AVOID ANY POTENTIAL DRAINAGE ISSUE FOR THE UPSTREAM PROPERTY OWNERS.

PAVEMENT

THE FOLLOWING LIST OF STANDARD CONSTRUCTION DOCUMENTS DEFINE THE METHODS, MATERIALS, AND TESTING TO BE UTILIZED WHEN DESIGNING AND CONSTRUCTING TRANSPORTATION IMPROVEMENTS. THE SECTIONS IN THIS SPECIFICATION ARE INTENDED TO DEFINE FURTHER PARTICULAR FLEMENTS OF BOTH DESIGN AND CONSTRUCTION OF TRANSPORTATION PROJECTS IN NAPERVILLE. ILLINOIS. THE CITY ENGINEER SHALL DECIDE ALL QUESTIONS THAT ARISE AS TO THE INTERPRETATION OF THE SPECIFICATIONS.

- a) DESIGN MANUAL, LATEST EDITION (IDOT)
- b) CONSTRUCTION MANUAL, LATEST EDITION (IDOT) c) SOILS MANUAL, LATEST EDITION (IDOT)
- d) HIGHWAY STANDARDS, LATEST EDITION (IDOT)
- e) MANUAL OF INSTRUCTIONS FOR CONCRETE PROPORTIONING AND TESTING, LATEST EDITION (IDOT)
- MANUAL OF INSTRUCTIONS FOR BITUMINOUS PROPORTIONING AND TESTING, LATEST EDITION (IDOT)
- g) CITY OF NAPERVILLE, CONCRETE CONSTRUCTION IN THE PUBLIC RIGHT-OF-WAY

THE DEVELOPER AND CONTRACTOR SHALL HAVE THE RESPONSIBILITY TO ADEQUATELY PROTECT THE PAVEMENT AND PROPERTY. CURB AND GUTTER AND OTHER RIGHT-OF-WAY IMPROVEMENTS. WHETHER NEWLY CONSTRUCTED OR EXISTING. FROM ANY AND ALL DAMAGE. SUFFICIENT MEANS SHALL BE EMPLOYED BY THE CONTRACTOR TO PROTECT AGAINST SUCH DAMAGE TO THE SATISFACTION OF THE CITY ENGINEER.

ANY NEW OR EXISTING IMPROVEMENTS THAT ARE DAMAGED SHALL BE REPAIRED OR REPLACED IN A MANNER THAT IS SATISFACTORY TO THE CITY ENGINEER.

THE CONTRACTOR AND/OR DEVELOPER SHALL SECURE ALL NECESSARY RIGHTS TO PERFORM ANY WORK ON PRIVATE PROPERTY NOT WITHIN THE OWNERSHIP RIGHTS OF THE DEVELOPER. THE DEVELOPER SHALL BEAR THE SOLE RESPONSIBILITY FOR DAMAGES THAT MAY OCCUR AS A RESULT OF WORK PERFORMED UNDER CONTRACTS THEY INITIATE.

ROADWAY CONSTRUCTION SHALL ONLY BE PERMITTED BETWEEN APRIL 15 AND NOVEMBER 15. WEATHER PERMITTING. UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE CITY ENGINEER. THIS AUTHORIZATION WILL IN NO MANNER VOID THE OBLIGATION OF THE DEVELOPER AND CONTRACTOR TO ADHERE TO THE SPECIFICATIONS OR GUARANTEE THE WORK.

THE CONTRACTOR SHALL EMPLOY THE APPROPRIATE METHODS OF TRAFFIC CONTROL IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, SUCH THAT THE SAFETY OF VEHICLES, AND PEDESTRIANS IS PRESERVED AT ALL TIMES. THE ERECTION AND MAINTENANCE OF THE TRAFFIC CONTROL DEVICES SHALL BE TO THE SATISFACTION OF THE AGENCY OF JURISDICTION AND THE CITY ENGINEER.

THE DEVELOPER SHALL MAINTAIN THE INTEGRITY OF THE PAVEMENT, PROVIDE PERIODIC CLEANING OF THE PAVEMENT, AND PERFORM SNOW REMOVAL UNTIL FINAL ACCEPTANCE OF THE ROADWAY.

ALL NEWLY CONSTRUCTED BITUMINOUS CONCRETE SURFACE COURSES SHALL HAVE THE CURB LINE JOINTS ROUTED AND SEALED WITH RUBBERIZED SEALANT CONFORMING TO ASTM 3405. THE ROUTED RESERVOIR SHALL BE 0.5 INCHES BY 0.5 INCHES SQUARE.

ALL NEWLY CONSTRUCTED BITUMINOUS CONCRETE SURFACE COURSES SHALL BE TREATED WITH AN APPROVED PRESERVATIVE REJUVENATING AGENT, APPLIED AT A RATE OF 0.05-GAL PER SQ YD.

ALL PEDESTRIAN FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA). IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW THE SITE CONDITIONS AND THE DESIGN PLANS PRIOR TO CONSTRUCTION TO VERIFY THAT THE PROPOSED IMPROVEMENTS CAN BE CONSTRUCTED PER ADA REQUIREMENTS. IN THE EVENT THAT THE PROPOSED IMPROVEMENTS CANNOT BE CONSTRUCTED PER THE ADA REQUIREMENTS, THE DESIGNER SHOULD BE CONSULTED AND APPROPRIATE ACTION MUST BE TAKEN. APPROPRIATE ACTION MAY INCLUDE A FIELD CHANGE, A PLAN REVISION, OR A MEMO TO THE CITY FROM THE DESIGNER INDICATING WHY A CERTAIN ASPECT OF THE ADA CANNOT OR WILL NOT BE MET. THE CITY WILL NOT ACCEPT ANY IMPROVEMENTS THAT FAIL TO MEET THE REQUIREMENTS OF THE ADA WITHOUT DOCUMENTATION FROM THE DESIGNER.

IT IS RECOMMENDED THAT THE NAPERVILLE STANDARD DETAILS BE CONSULTED WHEN DESIGNING AND CONSTRUCTING PEDESTRIAN IMPROVEMENTS. HOWEVER, ALL IMPROVEMENTS MUST ULTIMATELY BE IN ACCORDANCE WITH THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN PUBLISHED BY THE DEPARTMENT OF JUSTICE AND THE ILLINOIS ACCESSIBILITY CODE PUBLISHED BY THE ILLINOIS CAPITAL DEVELOPMENT BOARD.

ALL SUBGRADE MATERIAL SHALL HAVE A MINIMUM ILLINOIS BEARING RATIO (IBR) OF 3.0 AS MEASURED BY A DYNAMIC CONE PENETROMETER. SUBGRADE MATERIAL HAVING AN IBR OF LESS THAN 3.0 SHALL BE MODIFIED BY UNDERCUTTING AND BACKFILLING THE UNSUITABLE AREAS IN ACCORDANCE WITH SECTION 503.1.

UNLESS OTHERWISE INDICATED, ALL SUBBASE SHALL BE CONSTRUCTED OF COMPACTED, CRUSHED AGGREGATE MEETING IDOT GRADATION CA-6.

BITUMINOUS CONCRETE BASE COURSE, BITUMINOUS CONCRETE BINDER COURSE AND BITUMINOUS CONCRETE SURFACE COURSE SHALL MEET THE MIX DESIGN AND GRADATION FOR THE STATE OF ILLINOIS SPECIFICATIONS FOR BITUMINOUS AGGREGATE MIXTURE, BITUMINOUS CONCRETE BINDER COURSE CLASS MODIFIED, AND BITUMINOUS CONCRETE SURFACE COURSE CLASS I MODIFIED, RESPECTIVELY. ALL MIX DESIGNS SHALL BE APPROVED BY THE CITY ENGINEER. THE SURFACE COURSE ON ALL ORIGINAL ROADWAY CONSTRUCTION AND PAVEMENT WIDENINGS SHALL BE COMPRISED OF ONLY VIRGIN MATERIALS.

ALL SIDEWALKS AND COMMERCIAL DRIVEWAY APPROACHES SHALL BE CONSTRUCTED OF CLASS PV CONCRETE (6.1 BAGS OF CEMENT) WITH AN AIR ENTRAINMENT OF 6-8% AT A MAXIMUM SLUMP OF 4 INCHES. RESIDENTIAL DRIVEWAY APRONS AND SERVICE WALKS MAY BE CONSTRUCTED OF MATERIALS OTHER THAN PORTLAND CEMENT CONCRETE OR BITUMINOUS CONCRETE PROVIDED THAT THE DESIGN IS APPROVED BY THE TRANSPORTATION, ENGINEERING AND DEVELOPMENT BUSINESS GROUP AND A PERMIT IS OBTAINED FOR THE WORK. AS A CONDITION OF THE PERMIT, A COVENANT RUNNING WITH THE LAND MUST BE RECORDED SUBJECTING THE PROPERTY TO COVENANTS AND RESTRICTIONS CONCERNING THE ALTERNATE DRIVEWAY SURFACE OR SERVICE WALK.

THE CONTRACTOR/DEVELOPER WILL BE RESPONSIBLE FOR BRINGING PAVEMENTS (STREET, CURB AND GUTTER, SIDEWALK, DRIVEWAY) ON THE PROPERTY UP TO CITY STANDARDS INCLUDING ANY REPAIRS TO SUBSTANDARD PAVEMENTS THAT EXISTED PRIOR TO OR OCCURRED DURING CONSTRUCTION.

WHEREVER NEW WORK WILL MEET EXISTING CONDITIONS OTHER THAN LAWN AREAS, REGARDLESS OF WHETHER THE NEW OR EXISTING WORK IS ASPHALT OR CONCRETE, THE EXISTING ADJACENT SIDEWALK, DRIVEWAYS, PAVEMENT OR CURB SHALL BE NEATLY SAW CUT. THE SAW CUT SHALL BE IN A NEAT STRAIGHT LINE SUFFICIENTLY DEEP SO THAT IT RENDERS A SMOOTH VERTICAL FACE TO MATCH TO. IF THE CONTRACTOR IS NOT CAREFUL OR DOES NOT SAW DEEP ENOUGH AND THE CUT LINE BREAKS OUT OR CHIPS TO AN IMPERFECT EDGE, THEN THE EXISTING SIDE MUST BE RE-CUT SQUARE AND DONE OVER UNTIL IT IS CORRECT.

SOIL EROSION AND SEDIMENT CONTROL

THE FOLLOWING DOCUMENTS ARE INCORPORATED BY REFERENCE:

- a) ILLINOIS URBAN MANUAL, IEPA/NRCS, LATEST EDITION
- b) NRCS NATIONAL ENGINEERING HANDBOOK
- c) CITY OF NAPERVILLE, DEPARTMENT OF PUBLIC WORKS MANUAL ON PARKWAY PLANTINGS
- d) THE RESTRICTIONS, POLICIES, AND INSTRUCTIONS THAT MAY BE ADOPTED OR ISSUED BY THE CITY OF NAPERVILLE e) NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM POLICIES AS ADMINISTERED BY THE ILLINOIS ENVIRONMENTAL PROTECTION

AGENCY.

WHICH, BY DECAY OR OTHERWISE, MIGHT CAUSE SETTLEMENT SHALL BE ALLOWED TO BE USED FOR EMBANKMENT. TOPSOIL SHALL BE A LOAMY SOIL WITH AN ORGANIC CONTENT BETWEEN ONE AND TEN PERCENT. IT SHALL BE RELATIVELY FREE FROM LARGE ROOTS, STICKS, WEEDS, BRUSH OR STONES LARGER THAN 1 INCH IN DIAMETER, OR OTHER LITTER AND WASTE

ALL MATERIALS USED FOR EMBANKMENT MUST BE SUITABLE FOR SUCH A USE. NO SOD, FROZEN MATERIAL OR ANY MATERIAL

PRODUCTS. THE TOPSOIL SHALL BE CAPABLE OF SUPPORTING AND GERMINATING VEGETATION. PLEASE REFER TO THE ILLINOIS URBAN MANUAL, LATEST EDITION FOR SPECIFICATIONS AND INSTRUCTIONS FOR USE FOR THE VARIOUS METHODS OF EROSION CONTROL MEASURES. THE FOLLOWING IS AN ABBREVIATED LISTING OF SOME OF THE MORE

- COMMON MEASURES: a) TEMPORARY SEED MIXES
- b) SILT FENCE c) STRAW BALES OR SILT BOXES
- d) EARTH STABILIZATION: RIP-RAP, FABRICS, ETC
- e) STRUCTURES: STORMCEPTOR®, OIL/GRIT SEPARATORS, ETC. f) CHEMICAL - FLOCK LOGS, ETC.
- g) STABILIZED CONSTRUCTION ENTRANCE

NECESSARY TO MAINTAIN THEIR FUNCTION.

GROUND COVER SHALL BE INSTALLED AS A PERMANENT EROSION CONTROL MEASURE, AS SHOWN ON THE APPROVED LANDSCAPE

ALL SEED MIXES SHALL BE AN APPROPRIATE MIX FOR THE SOIL TYPE AND INUNDATION CONDITIONS, AS DESIGNED. IDOT APPROVED SEED MIXES PER ARTICLE 250 OF THE IDOT STANDARD SPECIFICATIONS SHOULD BE CONSIDEREI

HYDROSEEDING SHALL BE APPLIED BASED ON THE COVERAGE AMOUNT PER AREA COVERAGE. AS SPECIFIED BY THE MANUFACTURER.

THE SOD SHALL BE APPROVED GRASS THAT IS NATIVE TO NORTHEASTERN ILLINOIS. IT SHALL EITHER BE NURSERY GROWN OR FIELD GROWN AND BE WELL ROOTED AND APPROVED BY THE ENGINEER PRIOR TO BEING CUT AND AGAIN BEFORE IT IS LAID. SOD THAT HAS BEEN GROWN ON SOIL THAT IS HIGH ORGANIC MATTER SUCH AS PEAT WILL NOT BE ACCEPTED. THE CONSISTENCY OF THE ADHERENT SOIL SHALL BE SUCH THAT IT WILL NOT BREAK, CRUMBLE OR TEAR DURING HANDLING AND PLACING OF THE SOD.

EACH PIECE OF SOD SHALL BE WELL COVERED WITH TURF GRASS, SHALL BE FREE FROM NOXIOUS WEEDS AND OTHER OBJECTIONABLE PLANTS, AND SHALL NOT CONTAIN SUBSTANCES INJURIOUS TO GROWTH. THE GRASS SHALL BE CUT TO A LENGTH OF NOT LESS THAN 1-1/2 INCHES NOR MORE THAN FOUR INCHES BEFORE THE SOD IS CUT. THE SOD SHALL BE CUT IN RECTANGULAR PIECES WITH ITS SHORTEST SIDE NOT LESS THAN 12 INCHES. THE SOD SHALL NOT BE CUT LESS THAN ONE INCH THICK, A THICKNESS WHICH DOES NOT INCLUDE THE GRASS.

ALL PLANTINGS MUST BE IN CONFORMANCE WITH THE APPROVED LANDSCAPE PLAN. MATERIALS MUST BE HEALTHY AND FREE OF DISEASE.

ALL EROSION CONTROL MEASURES SHALL BE PROPERLY INSTALLED, AS PERMITTED, PRIOR TO ANY LAND DISTURBANCE ACTIVITIES. ALL EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY, AFTER ANY 0.5 INCH RAINFALL, OR MORE FREQUENTLY AS

DURING EXTENDED DRY PERIODS, THE CONSTRUCTION AREA(S) MAY NEED TO BE WATERED DOWN TO PREVENT THE BLOWING OF SOIL FROM THE SITE.

DURING CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE UTILIZED TO MINIMIZE THE TRACKING OF DIRT ONTO THE PUBLIC STREETS. ANY DIRT THAT IS TRACKED ONTO THE PUBLIC STREETS SHALL BE REMOVED THE SAME DAY. IF THE AMOUNT TRACKED ON THE PUBLIC STREET IS EXCESSIVE, CLEANING MAY BE REQUIRED MORE FREQUENTLY.

RESTORATION MEASURES SHALL BE INSTALLED ONLY DURING THE GROWING SEASON, TO ENABLE THEM TO TAKE ROOT. ANY AREAS THAT DO NOT TAKE ROOT, OR THAT FAIL TO GROW, SHALL BE REPLACED IN AN ADEQUATE TIME FRAME TO MINIMIZE SOIL EROSION. ADEQUATE WATERING SHALL BE PROVIDED TO ALLOW FOR THE PLANTINGS SURVIVAL.

TREE PROTECTION SHALL BE PROVIDED FOR ALL TREES SHOWN ON THE PLANS TO BE SAVED WITHIN THE LIMITS OF CONSTRUCTION. OR AS DIRECTED BY THE ENGINEER, TREE PROTECTION SHALL BE INSTALLED PRIOR TO THE START OF ANY CLEARING OR REMOVAL WORK AND SHALL REMAIN PROTECTED THROUGH THE DURATION OF CONSTRUCTION. ALL TREES SHALL BE PROTECTED AS SHOWN IN DETAIL 790.10.

PLANTINGS SHALL BE PLANTED PER THE APPROVED LANDSCAPE PLAN TAKING CARE NOT TO DAMAGE THE EXISTING ROOT SYSTEM.

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

ALL EROSION CONTROL MEASURES SHALL BE PROPERLY INSTALLED, AS PERMITTED, PRIOR TO ANY LAND DISTURBANCE ACTIVITIES. ALL EROSION CONTROL SHALL BE MAINTAINED UNTIL TURF IS ESTABLISHED.

ACCEPTABLE PERIMETER EROSION CONTROL INCLUDES SILT FENCE, SILT WORM AND ANY OTHER APPLICATION APPROVED BY THE CITY ENGINEER.

ALL OPEN GRATE STRUCTURES SHALL HAVE EROSION CONTROL PROTECTION IN ACCORDANCE WITH THE APPROVED EROSION

STOCKPILES NOT BEING DISTURBED FOR MORE THAN 14 DAYS SHALL BE SEEDED.

CONTROL PLANS. INLET BASKETS ARE THE PREFERRED METHOD; STRAW BALES SHALL NOT BE USED.

STORM SEWER

THE STANDARDS AND REQUIREMENTS FOUND IN THIS ARTICLE ARE FOR THE MATERIALS AND CONSTRUCTION OF STORM SEWER SYSTEMS WITHIN THE CITY OF NAPERVILLE, ILLINOIS.

- ALL WORK AND EQUIPMENT PERFORMED AND INSTALLED UNDER THIS SECTION SHALL BE GOVERNED BY AND SHALL COMPLY WITH THE FOLLOWING SPECIFICATIONS, MANUALS, AND CODES LISTED IN SECTION 102.2. THE MOST CURRENT EDITIONS AND ALL SUBSEQUENT REVISIONS AND ALTERATIONS FOR THE SPECIFICATIONS ARE REQUIRED.
- NO CONNECTION TO AN EXISTING PUBLIC STORM SEWER MAY BE MADE WITHOUT PERMISSION OF THE CITY ENGINEER.

REINFORCED CONCRETE PIPE SHALL CONFORM TO ASTM DESIGNATION C 76. CLASSES I. II. III. 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.

POLYVINYL CHLORIDE (PVC) PIPE SHALL CONFORM TO ASTM D 3034, TYPE PSM. THE MINIMUM STANDARD DIMENSION RATIO (SDR) SHALL BE 26. THE PIPE SHALL BE MADE OF PVC PLASTIC HAVING A MINIMUM CELL CLASSIFICATION OF

12454-C, AND SHALL HAVE A MINIMUM PIPE STIFFNESS OF FORTY-SIX (46) LBS. PER INCH (317 KPA). JOINTS FOR PVC PIPE SHALL BE FLEXIBLE ELASTOMERIC SEALS PER ASTM D 3212.

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.

BACKFILL MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF IDOT STANDARD SPECIFICATIONS. THE GRADATION SHALL CONFORM TO GRADATION CA-6 OF THE STANDARD SPECIFICATIONS.

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.

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.

NON-SHRINKING HYDRAULIC CEMENT SHALL BE USED ON ALL INTERIOR AND EXTERIOR JOINTS WITHIN THE BARREL SECTION TO PROVIDE A WATER-TIGHT SEAL BETWEEN STRUCTURE SECTIONS. NO HYDRAULIC CEMENT SHALL BE APPLIED ABOVE THE CONE SECTION OR FLAT TOP.

ALL STRUCTURES WITHOUT SUMPS SHALL BE PROVIDED WITH A PRECAST OR CAST—IN—PLACE CONCRETE FILLET, OR BENCH, TO PROVIDE A SMOOTH FLOW BETWEEN PIPE SECTIONS.

THE INSIDE AND OUTSIDE OF ALL PIPE SECTION CONNECTIONS TO STORM STRUCTURES SHALL BE SHAPED WITH ADDITIONAL MORTAR TO PROVIDE A 3 INCH COLLAR AROUND THE PIPE.

ADJUSTMENTS MAY BE NECESSARY TO ENSURE THAT FRAMES AND GRATES MATCH THE ELEVATION OF THE SURROUNDING PAVEMENT OR GROUND SURFACE. PREFORMED ADJUSTING RINGS OF THE PROPER DIMENSIONS NEEDED TO MATE THE FRAME TO THE PRECAST STRUCTURE SHALL BE USED. NO MORE THAN 12 INCHES OF VERTICAL ADJUSTMENT MAY BE MADE USING THE MINIMUM PRACTICAL NUMBER OF INDIVIDUAL RINGS.

- ALL RINGS SHALL BE HIGH DENSITY POLYETHYLENE PLASTIC (HDPE), RECYCLED RUBBER, HIGH DENSITY EXPANDING POLYSTYRENE, EXPANDED POLYPROPYLENE (EPP), OR OTHER MATERIAL AS APPROVED BY THE CITY ENGINEER. PRECAST CONCRETE RINGS, BRICKS, ROCKS, SHIMS, OR CONCRETE BLOCKS WILL NOT BE ALLOWED. TAPERED ADJUSTING RINGS SHALL BE REQUIRED WHEN THE FRAME WILL NEED TO MATCH THE SLOPE OF THE ROADWAY.
- A RESILIENT, FLEXIBLE, NON—HARDENING, PREFORMED BITUMINOUS MASTIC MATERIAL, CONSEAL 102B OR APPROVED EQUAL, SHALL BE USED BETWEEN THE CONE OR TOP BARREL SECTION OF THE STRUCTURE AND THE ADJUSTING RINGS. A THICK BEAD OF NON-HARDENING ELASTOMERIC JOINT SEALANT CONFORMING TO ASTM C-920, TYPE S, GRADE NS, SHALL BE APPLIED BETWEEN ALL INDIVIDUAL RINGS, AND BETWEEN THE ADJUSTING RINGS AND THE FRAME. THE SEALANT OR MASTIC MATERIAL SHALL BE APPLIED IN SUCH A MANNER THAT NO SURFACE WATER OR GROUND WATER INFLOW CAN ENTER THE STRUCTURE.
- ALL STORM SEWER STRUCTURE FRAMES WITHOUT INSIDE FLANGES SHALL BE SHAPED WITH HYDRAULIC CEMENT OR ELASTOMERIC JOINT SEALANT TO FORM A FILLET TO THE STRUCTURE OR ADJUSTING RINGS AND TO MAINTAIN WATER-TIGHTNESS.

FRAME ADJUSTMENTS SHALL BE COMPLETED IN ACCORDANCE WITH SECTIONS 602 AND 603 OF STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. PREPARED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION, LATEST EDITION. EXCEPT AS NOTED HEREIN.

GRANULAR PIPE BEDDING AND HAUNCHING SHALL BE REQUIRED ON ALL STORM SEWERS INSTALLED IN THE CITY OF

NAPERVILLE. INITIAL BACKFILL SHALL BE REQUIRED FOR ALL SEWERS CONSTRUCTED OF PVC OR OTHER FLEXIBLE PIPE

MATERIAL. THE DEPTH OF COVER OVER THE PIPE SHALL BE APPROPRIATE FOR THE MATERIAL AND CLASS OF PIPE SPECIFIED FOR THE INSTALLATION. IN NO CASE SHALL THE COVER OVER THE PIPE BE LESS THAN 24 INCHES UNLESS SPECIFICALLY

- ALL PIPE SHALL BE LAID TRUE TO LINE AND GRADE. DIRT AND OTHER FOREIGN MATERIAL SHALL BE PREVENTED 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 ARE TO BE SEALED USING BUTYL MASTIC AND CONCRETE PLUGS. AT NO TIME SHALL CONNECTIONS BETWEEN THE STORM SEWER SYSTEM AND SANITARY SEWER SYSTEMS BE ALLOWED.
- ALTERNATELY, PREMIUM JOINT PIPE WITH INTEGRAL O-RINGS MAY BE USED.

ALLOWED OTHERWISE BY 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.

TRAFFIC CONTROL NOTES

LANE CLOSURES ON ARTERIAL ROADWAYS WITHIN THE CITY OF NAPERVILLE ARE NOT PERMITTED BETWEEN THE HOURS OF 6AM-9AM AND 3PM-7PM MONDAY THROUGH FRIDAY, UNLESS OTHERWISE PERMITTED BY THE CITY ENGINEER. LANE CLOSURES ON ARTERIAL STREETS ARE PERMITTED BETWEEN 7AM AND 7PM ON WEEKENDS, UNLESS OTHERWISE PERMITTED BY THE CITY ENGINEER. ARTERIAL ROADWAYS ARE DEFINED AS BOTH MAJOR AND MINOR ARTERIAL ROADWAYS AS DESIGNATED ON THE CITY'S MASTER THOROUGHFARE PLAN, LATEST EDITION.

ANY WORK THAT IMPACTS A TRAFFIC LANE ON AN ARTERIAL ROADWAY REQUIRES AN ARROWBOARD AS PART OF THE TRAFFIC CONTROL.

ALL DEVELOPERS AND CONTRACTORS SHALL PROVIDE SUITABLE TRAFFIC CONTROL FOR THEIR CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH PART 6 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION. TRAFFIC CONTROL MUST BE PROVIDED FOR ANY ACTIVITY THAT IMPACTS TRAFFIC FLOW. THIS INCLUDÉS, BUT IS NOT LIMITED TO, ROAD CLOSURES REQUIRING DETOURS, DAILY LANE CLOSURES, LONG TERM LANE CLOSURES, NARROW LANES, AND CONSTRUCTION VEHICLES ENTERING AND EXITING THE PUBLIC ROADWAY. ALL TRAFFIC CONTROL SET- UPS MAY BE INSPECTED BY THE CITY OF NAPERVILLE TO ENSURE THAT THEY ARE PROVIDING POSITIVE GUIDANCE TO MOTORISTS AND ARE NOT IN THEMSELVES PRESENTING A HAZARDOUS SITUATION. A REPRESENTATIVE OF THE DEVELOPER OR CONTRACTOR MUST PROVIDE PHONE NUMBERS AT WHICH THEY CAN BE REACHED 24 HOURS A DAY AND ON WEEKENDS SO THAT THEY CAN MAINTAIN TRAFFIC CONTROL DEVICES.

PEDESTRIANS MUST BE PROVIDED WITH A SAFE ALTERNATE ROUTE IF PEDESTRIAN FACILITIES ARE TO BE CLOSED AS A RESULT OF CONSTRUCTION ACTIVITIES. GUIDANCE MUST BE PROVIDED TO PEDESTRIANS SO THAT THEY MAY AVOID THE WORK ZONE, SAID PEDESTRIAN DETOUR PLAN (WITH SIGNAGE) IS TO BE REVIEWED AND ACCEPTED BY THE CITY IN WRITING, PRIOR TO THE COMMENCEMENT OF THE WORK.THE

CONTRACTOR SHALL EMPLOY THE APPROPRIATE METHODS OF TRAFFIC CONTROL IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, SUCH THAT THE SAFETY OF VEHICLES, AND PEDESTRIANS IS PRESERVED AT ALL TIMES. THE ERECTION AND MAINTENANCE OF THE TRAFFIC CONTROL DEVICES SHALL BE TO THE SATISFACTION OF THE AGENCY OF JURISDICTION AND THE CITY ENGINEER.

ANY TEMPORARY OPEN HOLES SHOULD BE BARRICADED AND PROTECTED IN ACCORDANCE WITH APPLICABLE STANDARDS.

NAPERVILLE - WATER/WASTE WATER GENERAL NOTES

- 1. NEW WATER MAIN VALVES, INCLUDING PRESSURE TAP VALVES, ADJACENT TO AN EXISTING WATER MAIN, AND EXISTING WATER MAIN VALVES SHALL ONLY BE OPERATED BY THE CITY OF NAPERVILLE, DEPARTMENT OF PUBLIC UTILITIES CEE/CM DIVISION PERSONNEL WITH 48-HOUR NOTICE (MONDAY-FRIDAY). CONTACT NAPERVILLE TED BUSINESS GROUP AT 630-420-6082 FOR SCHEDULING.
- 2. ANY EXISTING UTILITY STRUCTURES REQUIRING ADJUSTMENT OR RECONSTRUCTION SHALL BE COMPLETED BY THE CONTRACTOR TO THE SATISFACTION OF THE UTILITY OWNER. ADJUSTMENTS AND/OR RECONSTRUCTIONS NOT CALLED FOR ON THE PLANS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. NO MORE THAN A TOTAL OF 12 INCHES OF
- ADJUSTING RINGS AND/OR 2 ADJUSTING RINGS SHALL BE ALLOWED. ALL STRUCTURE FRAMES SHALL BE FLUSH WITH FINAL GRADE 3. TREES SHALL BE INSTALLED A MINIMUM OF FIVE (5) FEET HORIZONTALLY FROM UNDERGROUND ELECTRICAL FEEDERS, SANITARY SEWERS, SANITARY SERVICES, WATER MAINS, AND WATER SERVICES. TREES SHALL BE INSTALLED A MINIMUM OF TEN (10) FEET HORIZONTALLY FROM UTILITY STRUCTURES AND APPURTENANCES, INCLUDING, BUT NOT LIMITED TO,
- MANHOLES, VALVE VAULTS, VALVE BOXES AND FIRE HYDRANTS. NO TREES, SHRUBS OR OBSTACLES WILL BE ALLOWED 10' IN FRONT OF, 5' ON THE SIDES, AND 7' TO THE REAR OF THE ELECTRICAL TRANSFORMER. 4. ALL RETAINER GLANDS WHEN REQUIRED TO RESTRAIN VALVES FITTINGS, HYDRANTS, AND PIPE JOINTS SHALL BE MECHANICAL JOINT WEDGE ACTION TYPE MEGALUG 1100 SERIES
- AS MANUFACTURED BY EBBA IRON, INC. OR UNI-FLANGE BLOCKBUSTER 1400 SERIES AS MANUFACTURED BY FORD METER BOX CO. AND SHALL BE FOR USE ON DUCTILE IRON PIPE CONFORMING TO ANSI/AWWA C151/A21.51, FOR NOMINAL PIPE SIZES 3" THROUGH 48".
- 5. EXISTING DUCTILE IRON SYSTEMS FOR RESTRAINING PUSH-ON PIPE BELLS SHALL BE MEGALUG SERIES 1100HD OR FORD SERIES 1390.
- 6. EXISTING DUCTILE IRON SYSTEMS REQUIRING RESTRAINT SHALL BE MEGALUG SERIES 1100SD (SPLIT MEGALUG) FOR MECHANICAL JOINTS. 7. DUCTILE IRON WATER MAIN TO BE CLASS 52. ALL DUCTILE IRON PIPE IS TO BE ENCASED IN POLYETHYLENE FILM POLYETHYLENE ENCASEMENT TO BE INSTALLED IN ACCORDANCE WITH ANSI/AWWA C105/A21.5-05.
- 8. A SET OF AS-BUILT RECORD DRAWING SHALL BE GIVEN TO THE CITY OF NAPERVILLE UPON COMPLETION OF IMPROVEMENTS SHOWING THE ELEVATION AND LOCATION (TIED TO TWO POINTS) OF ALL NEW AND EXISTING STRUCTURES INCLUDING FIRE HYDRANTS, VALVE BOXES AND VAULTS, LINESTOP SLEEVES, WATER SERVICE CORPORATION STOPS, WATER MAIN FITTINGS/BENDS, MANHOLES, SANITARY SERVICE WYES (MEASURED FROM DOWNSTREAM MANHOLE), AND ABANDONED WATER OR SANITARY SERVICE LINES. ALL ELEVATIONS
- 9. ALL SANITARY SEWER PIPING SHALL BE PVC PIPE MEETING THE REQUIREMENTS OF ASTM D-2241 WITH JOINTS CONFORMING TO ASTM D-3139. ALL SANITARY SEWER FITTINGS SHALL BE PVC MEETING THE FOLLOWING REQUIREMENTS: 4" TO 12" SHALL BE INJECTION MOLDED FITTINGS MEETING ASTM D-2241. GREATER THAN 12" SHALL BE FABRICATED
- 10. THE VALVES LESS THAN 16" SHALL BE STANDARD PATTERN, GATE VALVES AND SHALL HAVE THE NAME OR MARK OF THE MANUFACTURER. SIZE AND WORKING PRESSURE PLAINLY CAST IN RAISED LETTERS ON THE VALVE BODY. VALVES MAY BE APPROVED FROM ONE OF THE FOLLOWING MANUFACTURERS: AMERICAN, CLOW, WATEROUS OR KENNEDY.

SHOULD BE REFERENCED TO THE SAME BENCHMARK DATUM AS THE ORIGINAL DESIGN PLANS. HORIZONTAL TIES SHALL BE REFERENCED TO LOT LINES, BACK OF CURB, OR

- 1. STAINLESS STEEL NUTS, BOLTS/T-BOLTS, AND WASHERS, TYPE 304 OR BETTER, WILL BE REQUIRED ON ALL WATER MAIN INSTALLATIONS. THIS WOULD APPLY TO HYDRANTS, TAPPING SLEEVES, VALVES, FITTINGS, RESTRAINT, AND OTHER APPURTENANCES BURIED OR IN VALVE VAULTS. MECHANICAL JOINTS AND RESTRAINT GLANDS REQUIRE 304 STAINLESS STEEL T-BOLTS. AN ANTI-SEIZE COMPOUND SHALL BE FACTORY APPLIED TO NUTS OR BOLTS - ANY DAMAGE TO THIS COATING SHALL BE REPAIR WITH FIELD APPLIED APPROVED ANTI-SEIZE COMPOUND THAT IS A MOLYBDENUM-BASE LUBRICANT, BOSTIK NEVER-SEEZ OR APPROVED EQUAL.
- 12. THE CONTRACTOR SHALL ROTATE AND/OR ADJUST ANY EXISTING AND/OR NEW HYDRANT TO THE SATISFACTION OF THE DEPARTMENT OF PUBLIC UTILITIES.
- 13. WATER MAINS SHALL BE SUBJECTED TO A HYDROSTATIC/LEAKAGE TEST IN ACCORDANCE WITH NAPERVILLE STANDARD SPECIFICATIONS. TEST PRESSURE SHALL BE NO LESS THAN 150 PSI FOR A PERIOD OF 4 HOURS AND NOT VARY BY MORE THAN + 5 PSI. DURING THE TEST. THE TEST GAUGE SHALL BE APPROVED BY THE CITY AND SHALL BE GLYCERIN OR OIL FILLED, WITH A RANGE OF NOT MORE THAN 200 PSI AND INCREMENTS NOT GREATER THAN 5 PSI, 4 "MINIMUM DIAL SIZE. WATER RECOVERY TEST SHALL BE COMPLETED
- AT THE END OF THE TESTING PERIOD TO SHOW ACTUAL LEAKING AND THAT THE WATER MAIN DID NOT HAVE TOO MUCH TRAPPED AIR IN THE TESTED SECTION. 14. THE CITY OF NAPERVILLE PUBLIC UTILITIES DOES NOT GUARANTEE THAT ANY VALVE OR FITTING IN THE EXISTING WATER DISTRIBUTION SYSTEM WILL HOLD AGAINST A HYDROSTATIC/LEAKAGE TEST. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PROVIDING AND ACCEPTABLE PRESSURE TEST WHICH SHALL INCLUDE PROVISIONS AROUND EXISTING VALVES AND FITTINGS.
- 15. FIRE HYDRANT SHOULD BE BAGGED "NOT IN SERVICE" UNTIL ALL TESTING AND DISINFECTION HAS BEEN COMPLETED AND NEW WATER MAIN SECTION IS SERVICE.
- 16. SANITARY SEWER AND WATER SHALL BE CONSTRUCTED, TESTED, AND PLACED INTO SERVICE IN ACCORDANCE WITH CITY OF NAPERVILLE STANDARD SPECIFICATION AND SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION. 17. ALL VALVE BOXES, VAULTS, HYDRANTS, AND MANHOLES SHALL NOT BE COVERED WITH CONSTRUCTION DEBRIS AND SHALL REMAIN ACCESSIBLE TO THE RESPECTIVE UTILITY
- 18. WATER SERVICE LINE SMALLER THAN 3" SHALL BE TYPE K COPPER. IF JOINTS ARE REQUIRED DUE TO LENGTH OF SERVICE, THEN ONLY COMPRESSION TYPE COUPLING SHALL BE PERMITTED. NO SOLDERED OR FLARED TYPE JOINTS ARE ALLOWED.
- 19. ALL SANITARY MANHOLES SHALL BE TESTED FOR LEAKAGE BY VACUUM TESTING. THE MANHOLE FRAME AND ADJUSTING RINGS SHALL BE IN PLACE WHEN TESTING. ANY LEAKS SHALL BE REPAIRED FROM EXTERIOR OF MANHOLE - PATCHING INSIDE OF MANHOLE SHALL NOT BE ACCEPTABLE. A VACUUM OF 10" (254 MM) HG SHALL BE PLACE ON THE MANHOLE AND THE TIME SHALL BE MEASURED FOR THE VACUUM TO DROP TO 9" (229 MM) HG. THE VACUUM SHALL NOT DROP BELOW 9" (229 MM) HG FOR THE FOLLOWING TIME PERIODS FOR EACH SIZE OF MANHOLE: A)48-INCH DIAMETER - 60 SECONDS
- B)60-INCH DIAMETER 75 SECONDS C)72-INCH DIAMETER - 90 SECONDS D)84-INCH DIAMETER - 105 SECONDS
- ANY MANHOLES THAT FAIL THE TEST SHALL BE SEALED AND RE-TESTED UNTIL ACCEPTABLE.
- 20. THE CONTRACTOR SHALL PROVIDE INTERNAL TELEVISED INSPECTION OF ALL INSTALLED SANITARY SEWER. LATERALS. MANHOLES AND CONNECTIONS TO THE PUBLIC SYSTEM. FOLLOWING COMPLETION OF TELEVISING WORK, THE CONTRACTOR SHALL SUBMIT VIDEO RECORDINGS ON DVD OR FLASH DRIVE ALONG WITH A COMPREHENSIVE TELEVISING REPORT WHICH WILL INDICATE THE LOCATION, FOOTAGES AND NATURE OF ANY DEFECTS. PRIOR TO FINAL ACCEPTANCE, THESE DEFECTS SHALL BE REPAIRED TO THE SATISFACTION OF THE WATER/WASTEWATER UTILITY AND RE-TELEVISED.

24. CONTRACTOR SHALL MAINTAIN 2' MINIMUM CLEARANCE BETWEEN EXISTING UTILITIES AND NEW FOUNDATIONS AND UNDERGROUND FACILITIES. IN AREAS WHERE FOUNDATIONS AND

25. FENCES SHALL BE INSTALLED A MINIMUM OF 5 FEET FROM ANY WATER OR SANITARY MAINS WHEN RUNNING PARALLEL WITH THEM. WHERE FENCES ARE INSTALLED CROSSING

- 21. CONTRACTOR WORK HOURS ARE ONLY ALLOWED FROM 7:00 A.M. TO 5:00 P.M., MONDAY THROUGH SATURDAY. NO WORK SHALL BE PERMITTED ON SUNDAYS.
- 22. SANITARY PIPES WITH LESS THAN 4 FEET OR MORE THAN 25 FEET OF COVER SHALL BE CONSTRUCTED OF DUCTILE IRON PIPING (CLASS 50, MINIMUM) AND ENCASED IN 23. ALL EXCAVATIONS MORE THAN 20 FEET DEEP MUST BE PROTECTED BY A SYSTEM DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER.
- UNDERGROUND FACILITIES ARE PROPOSED ADJACENT TO EXISTING UTILITIES, THE CONTRACTOR SHALL POT HOLE BY VACUUM EXCAVATION OR HAND EXCAVATION TO LOCATE THE EXISTING UTILITY TO VERIFY MINIMUM CLEARANCE REQUIREMENT.
- WATER OR SANITARY MAINS, THE POSTS SHALL BE LOCATED TO HAVE THE MAIN BETWEEN THEM. 26. ALL BRASS COMPONENTS SHALL BE CERTIFIED TO BE LEAD FREE IN COMPLIANCE WITH NSF 61 AND NSF 372 AND IDENTIFIED WITH APPLICABLE MARKINGS.
- 27. SANITARY FORCE MAIN FORCE MAN SHALL BE TESTED A MINIMUM OF 1 HOUR AT 1.5 THE SHUT OFF HEAD OF THE PUMP, 2.5 TIMES THE OPERATING PRESSURE, OR 20 PSI WHICHEVER IS GREATEST. ALLOWABLE LEAKAGE SHALL BE IN ACCORDANCE WITH SECTION 41-2.14C OF THE STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION.



SIGNING AND PAVEMENT MARKING

ALL SIGNING AND PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (SSRBC), MUNICIPAL CODE AND THESE PLANS. CONTRACTOR SHALL ESTABLISH LOCATION OF ALL SIGNS AND MARKINGS FOR APPROVAL BY THE OWNER PRIOR TO INSTALLATION.

SIGNS: SIGNS SHALL BE CONSTRUCTED OF 0.080 INCH THICK FLAT ALUMINUM PANELS WITH REFLECTORIZED LEGEND ON THE FACE IN ACCORDANCE WITH (SSRBC) SECTION 720. LEGEND SHALL BE IN ACCORDANCE WITH MUTCD AND AS SHOWN ON THE PLANS.

POSTS: SIGN POSTS SHALL BE A HEAVY DUTY STEEL "U" SHAPED CHANNEL WEIGHING 3.0 POUNDS/FOOT SUCH AS A TYPE B METAL POST PER (SSRBC) SECTION 729 [OR: 2" PERFORATED STEEL TUBE PER (SSRBC) SECTION 728].

SIGNS AND POSTS SHALL BE INSTALLED IN ACCORDANCE WITH THE ABOVE (SSRBC) SECTIONS AND IDOT STANDARD 729001 EXCEPT AS MODIFIED BY THE

PAVEMENT MARKINGS: ALL PAVEMENT MARKINGS IN THE ROADWAY LIMITS, SUCH AS STOP LINES, CENTERLINES, CROSSWALKS AND DIRECTIONAL ARROWS SHALL BE PAINT PER SSRBC. EXCEPT AS MODIFIED BY THE PLANS PAVEMENT MARKINGS ON BIKE PATHS, PARKING LOT STALLS, AND SIMILAR "LOW WEAR" APPLICATION, SHALL BE PAINT IN ACCORDANCE TO (SSRBC) SECTION

8. COLOR, WIDTH, STYLE, AND SIZE OF ALL MARKINGS SHALL BE IN ACCORDANCE WITH (MUTCD) EXCEPT AS MODIFIED BY THE PLANS.

780, EXCEPT AS MODIFIED BY THE PLANS. REFLECTIVE BEADS ARE NOT REQUIRED.

THERMOPLASTIC MARKINGS SHALL BE INSTALLED WHEN THE PAVEMENT TEMPERATURE IS 55° F AND RISING. PAINT MARKINGS MAY BE INSTALLED WHEN THE AIR TEMPERATURE IS 50° F AND RISING.

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MARCH 04, 2022

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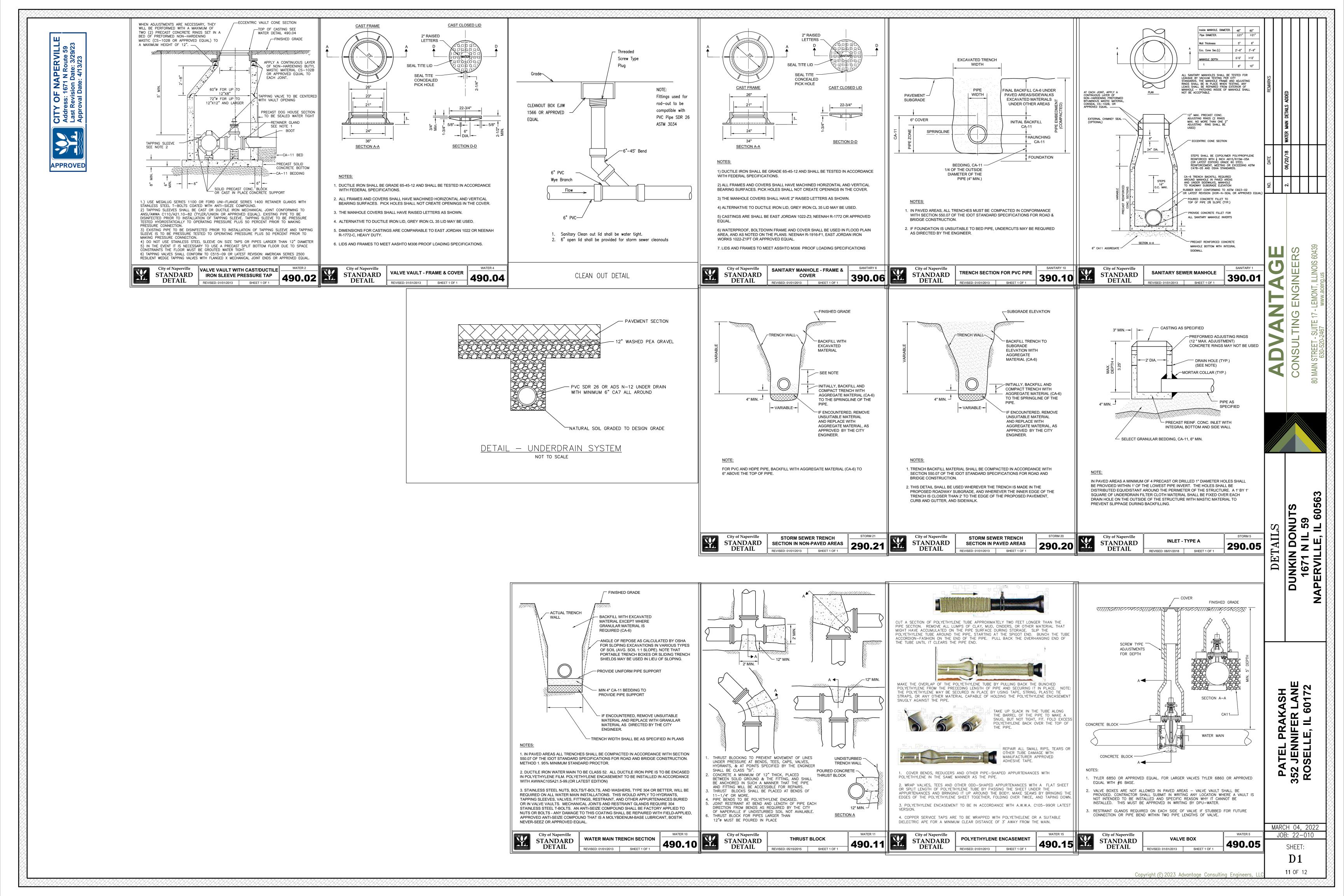
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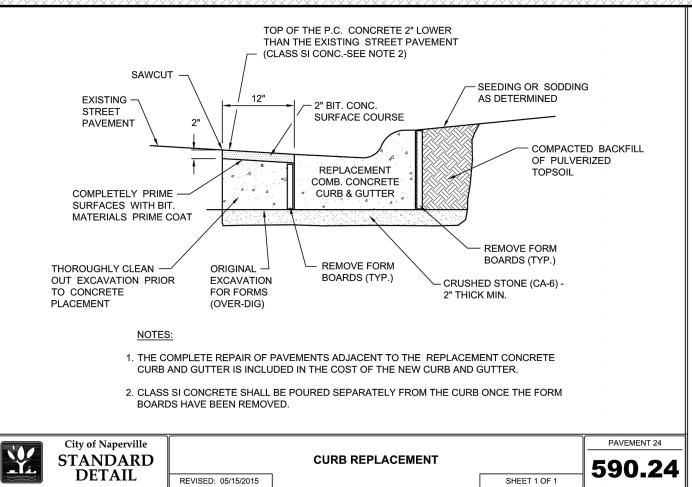
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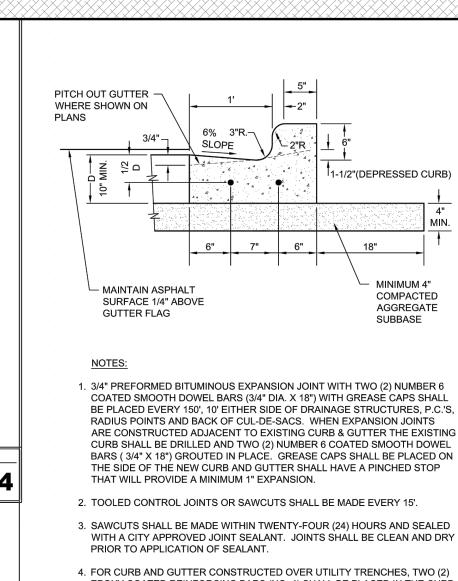
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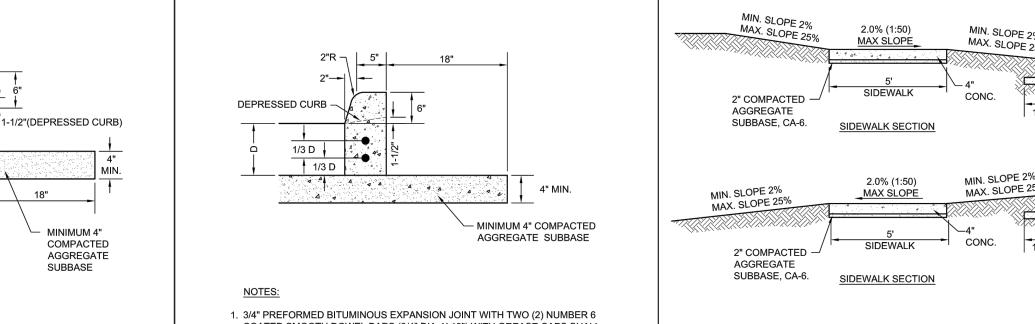
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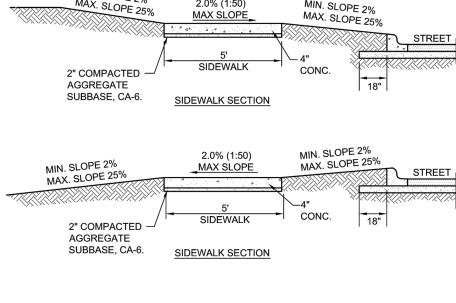
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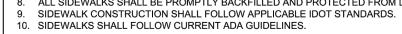
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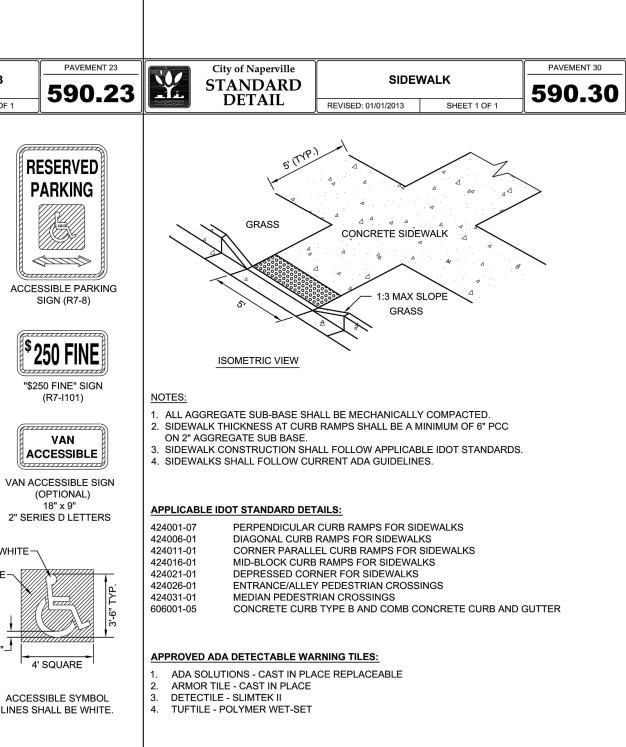


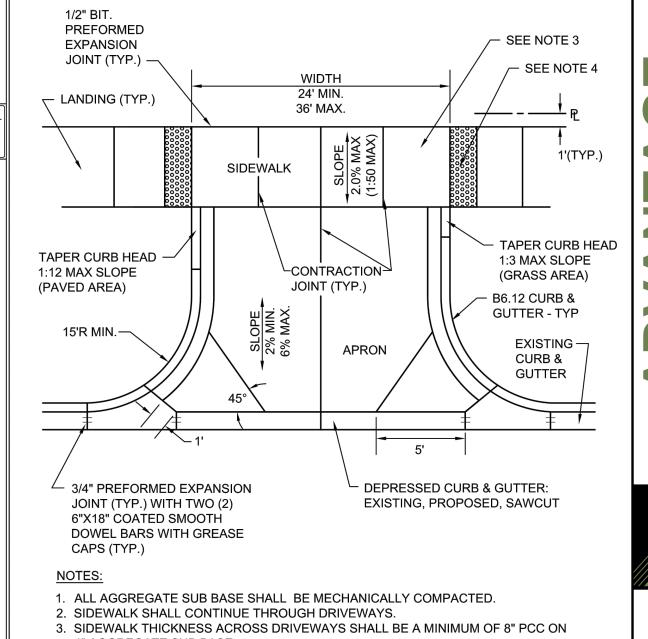
- COATED SMOOTH DOWEL BARS (3/4" DIA. X 18") WITH GREASE CAPS SHALL BE PLACED EVERY 150', 10' EITHER SIDE OF DRAINAGE STRUCTURES, P.C.'S, RADIUS POINTS AND BACK OF CUL-DE-SACS. WHEN EXPANSION JOINTS ARE CONSTRUCTED ADJACENT TO EXISTING CURB & GUTTER THE EXISTING CURB SHALL BE DRILLED AND TWO (2) NUMBER 6 COATED SMOOTH DOWEL BARS (3/4" X 18") GROUTED IN PLACE. GREASE CAPS SHALL BE PLACED ON THE SIDE OF THE NEW CURB AND GUTTER SHALL HAVE A PINCHED STOP
- 2. TOOLED CONTROL JOINTS OR SAWCUTS SHALL BE MADE EVERY 15'.
- 3. SAWCUTS SHALL BE MADE WITHIN TWENTY-FOUR (24) HOURS AND SEALED WITH A CITY APPROVED JOINT SEALANT. JOINTS SHALL BE CLEAN AND DRY
- 4. FOR CURB AND GUTTER CONSTRUCTED OVER UTILITY TRENCHES, TWO (2) EPOXY COATED REINFORCING BARS (NO. 4) SHALL BE PLACED IN THE CURB AND GUTTER, CENTERED OVER THE TRENCH.



- CONCRETE SHALL BE IDOT CLASS SI. MINIMUM SIDEWALK THICKNESS SHALL BE 4".
- SIDEWALK THICKNESS ACROSS DRIVEWAYS SHALL BE AT A MINIMUM 6" FOR RESIDENTIAL DRIVEWAYS AND 8" FOR COMMERCIAL DRIVEWAYS. MAXIMUM LONGITUDINAL SLOPE SHALL NOT EXCEED 5% (20:1). FOR ANY SLOPE IN
- EXCESS OF 5%, ALL REQUIREMENTS OF THE ILLINOIS ACCESSIBILITY CODE (LATEST
- MINIMUM TRANSVERSE SLOPE SHALL BE 1.0% (1:100). MAXIMUM TRANSVERSE SLOPE SHALL BE 2.0% (1:50). A MINIMUM 2" AGGRÉGATE SUBBASE (CA-6) SHALL BE PROVIDED. (4" THROUGH
- COMMERCIAL DRIVEWAYS). AGGREGATE SUBBASE SHALL BE MECHANICALLY COMPACTED
- ALL SIDEWALKS SHALL BE PROMPTLY BACKFILLED AND PROTECTED FROM DAMAGE.







<u>BUSINESS DISTRICT</u> (SEE STANDARD DETAIL 590.14 FOR DOWNTOWN STREETSCAPE)

TRANSVERSE CONTRACTION JOINT

- DEPRESSED CURB (TYP) SEE COMMERCIAL DRIVEWAY

RESIDENTIAL AREA

SIDEWALK CONSTRUCTION

- 1/2" PREMOULDED EXPANSION JOINT BETWEEN WALK & BUILDING

8' MIN. /— 1/2" PREMOULDED EXPANSION JOINT AT 45' INTERVALS

- LONGITUDINAL CONTRACTION JOINT

STANDARD DETAIL 590.05

1/2" PREMOULDED

EXPANSION JOINT

↓ 1/2" PREMOULDED.

EXPANSION JOINT 1/2" PREMOULDED

EXPANSION JOINT -

AT 45' INTERVALS

SHEET 1 OF 1

AT DRIVEWAY

/ SEE CURB RAMPS STANDARD DETAIL 590.32

SEE RESIDENTIAL DRIVEWAY

STANDARD DETAIL 590.32

DEPRESSED CURB (TYP)

SEE CURB RAMPS

PREMOULDED 1/2"

EXPANSION JOINT

AT INTERSECTIONS

STANDARD DETAIL 590.06

1/2" PREMOULDED

EXPANSION JOINT

ALL AGGREGATE SUB-BAS SHALL BE MECHANICALLY

SIDEWALK THICKNESS AT

MINIMUM OF 6" PCC ON 2"

AGGREGATE SUB BASE.

IDOT STANDARDS.

CURB RAMPS SHALL BE A

SIDEWALK CONSTRUCTION

SHALL FOLLOW APPLICABLE

SIDEWALKS SHALL FOLLOW

CURRENT ADA GUIDELINES.

STANDARD

DETAIL

1/2" PREMOULDED

EXPANSION JOINT

CURB LINE

- CURB LINE

590.3

RS

 \Box

7

ONS

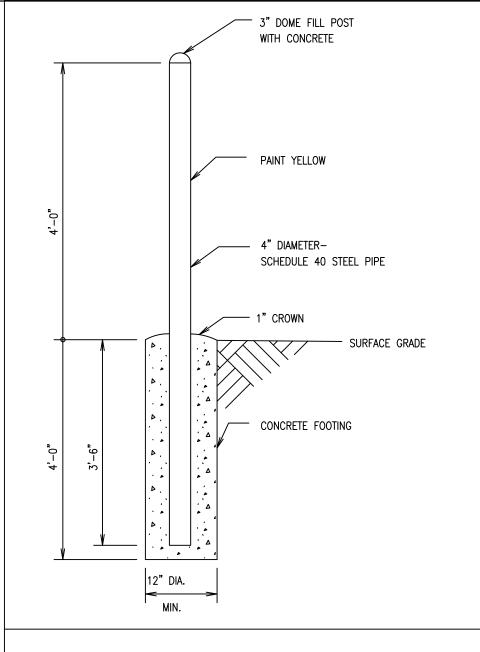
605

4" AGGREGATE SUB BASE.

4. DETECTABLE WARNINGS SHALL ONLY BE INSTALLED AT DRIVEWAYS WITH PERMANENT TRAFFIC CONTROL DEVICES.

5. SIDEWALK CONSTRUCTION SHALL FOLLOW APPLICABLE IDOT STANDARDS. 6. SIDEWALKS SHALL FOLLOW CURRENT ADA GUIDELINES.

City of Naperville TYPICAL COMMERCIAL DRIVEWAY DETAIL



BOLLARD DETAIL

MARCH 04, 2022 JOB: 22-010 SHEET: **12** OF 12

DUNKIN DONUTS 1671 N IL 59 JAPERVILLE, IL 6056 REVISED: 06/14/2013 SHEET 1 OF 1

PATEL PRAKASH 352 JENNIFER LANE ROSELLE, IL 60172

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MINIMUM 4" COMPACTED AGGREGATE SUBBASE COATED SMOOTH DOWEL BARS (3/4" DIA. X 18") WITH GREASE CAPS SHALL BE PLACED EVERY 150', 10' EITHER SIDE OF DRAINAGE STRUCTURES, P.C.'S, ARE CONSTRUCTED ADJACENT TO EXISTING CURB & GUTTER THE EXISTING CURB SHALL BE DRILLED AND TWO (2) NUMBER 6 COATED SMOOTH DOWEL BARS (3/4" X 18") GROUTED IN PLACE. GREASE CAPS SHALL BE PLACED ON THAT WILL PROVIDE A MINIMUM 1" EXPANSION. THE SIDE OF THE NEW CURB AND GUTTER SHALL HAVE A PINCHED STOP 3. SAWCUTS SHALL BE MADE WITHIN TWENTY-FOUR (24) HOURS AND SEALED PRIOR TO APPLICATION OF SEALANT.

4. FOR CURB AND GUTTER CONSTRUCTED OVER UTILITY TRENCHES, TWO (2) EPOXY COATED REINFORCING BARS (NO. 4) SHALL BE PLACED IN THE CURB AND GUTTER, CENTERED OVER THE TRENCH.

B6.12 BARRIER CURB & GUTTER

R7-8 SIGN

R7-I101 SIGN

8' TYP.

PAVEMENT 35

590.35

YELLOW CROSS HATCHING -

WHITE ON BLUE ¬

FOR MULTIPLE ACCESSIBLE PARKING SPACES IN A ROW, THE DESIGN ENGINEER

ACCESSIBLE PARKING

SPACE MARKINGS

HAS THE OPTION OF USING THE ABOVE SHOWN UNIT IN A COMBINATION OF

LEFT-HANDED AND RIGHT-HANDED LAYOUTS IF IT PROVIDES FOR BETTER SITE

AND BORDER

City of Naperville TYPE B BARRIER CURB **STANDARD** DETAIL EVISED: 01/01/2013 SHEET 1 OF NOTES FOR ACCESSIBLE PARKING SPACES:

AN 8' WIDE ACCESS AISLE.

2. ADJACENT ACCESSIBLE PARKING SHALL NOT SHARE A COMMON ACCESS AISLE. 3. SIGNS SHALL BE VERTICALLY MOUNTED ON A PERMANENT POST OR A WALL AT THE FRONT CENTER BETWEEN THE SPACE AND THE ACCESS AISLE NO MORE THAN 5' HORIZONTALY FROM THE FRONT OF A PARKING SPACE AND SET A MINIMUM OF 4' FROM THE FINISHED GRADE TO

1. EACH PARKING SPACE SHALL BE AT LEAST 16' WIDE, WITH

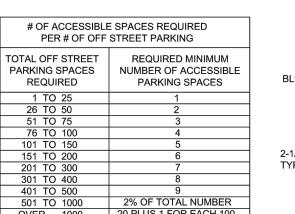
THE BOTTOM OF THE "\$250 FINE" SIGN. 4. ACCESSIBLE PARKING SIGNS SHALL ALSO EXHIBIT THE WORDS "\$250 FINE".

5. PARKING SPACES DESIGNED FOR PERSONS WITH

DISABILITIES AND ACCESSIBLE PASSENGER LOADING

ZONES THAT SERVE A PARTICULAR BUILDING, SHALL BE LOCATED ON THE SHORTEST POSSIBLE ACCESSIBLE CIRCULATION ROUTE TO AN ACCESSIBLE ENTRANCE OF THE BUILDING. 6. IN SEPERATE PARKING STRUCTURES OR LOTS THAT DO

NOT SERVE A PARTICULAR BUILDING, PARKING SPACES FOR PERSONS WITH DISABILITIES SHALL BE LOCATED ON THE SHORTEST POSSIBLE CIRCULATION ROUTE TO AN ACCESSIBLE PEDESTRIAN ENTRANCE OF THE PARKING FACILITY.



2" SERIES D LETTERS 2-1/2"— TYP.

4' SQUARE

ACCESSIBLE SYMBOL LINES SHALL BE WHITE.

PARKING

SIGN (R7-8)

(R7-I101)

VAN

(OPTIONAL)

18" x 9"

590.35

ACCESSIBLE PARKING

20 PLUS 1 FOR EACH 100 OVER 1000 **STANDARD SPACE MARKINGS** DETAIL

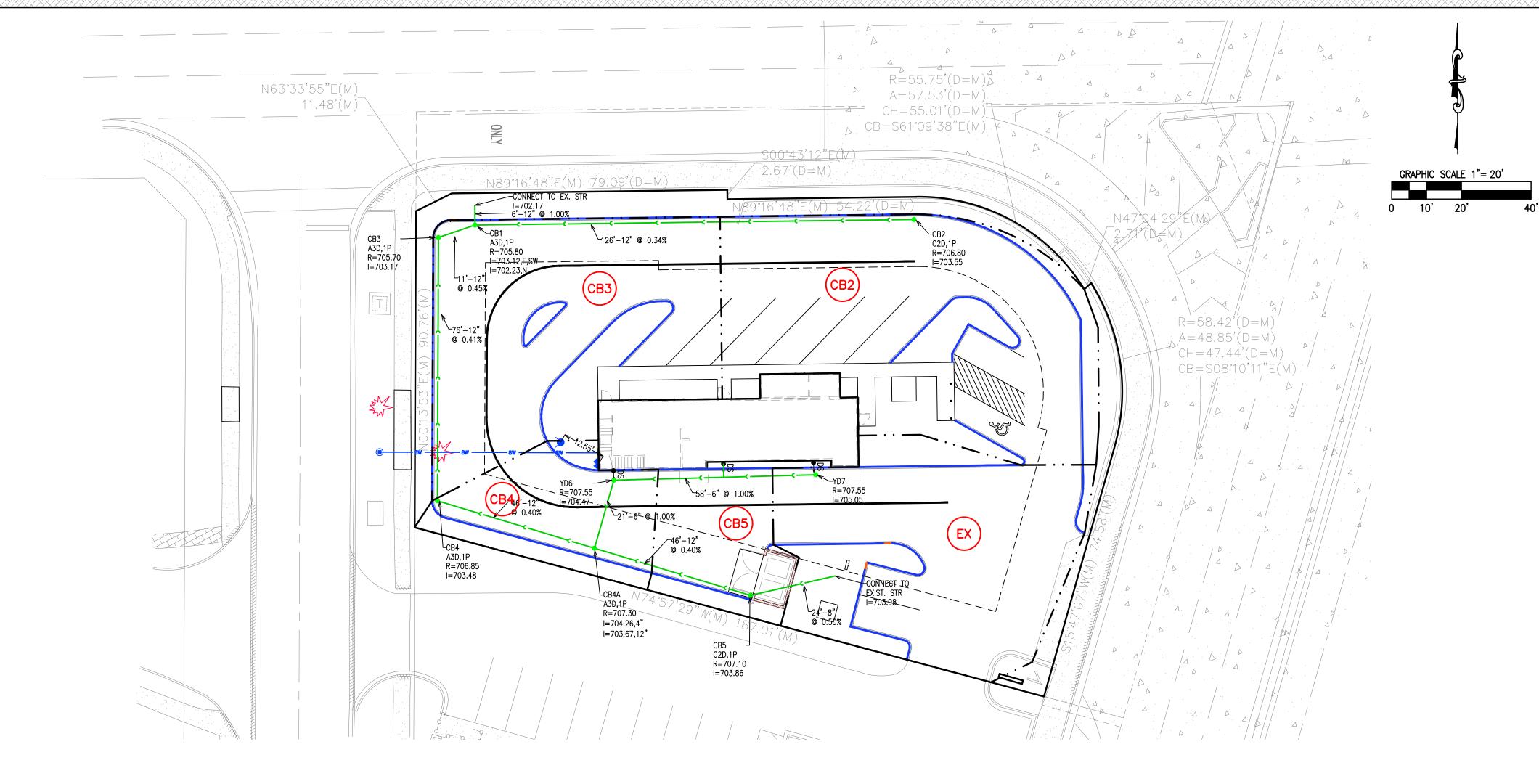
SHEET 4 OF 4

STANDARD DETAIL

CURB RAMPS 590.32 EVISED: 05/15/2015 SHEET 1 OF 1

STANDARD DETAIL

PAVEMENT 5 590.05 DETAILS



INLET AREA SUMMARY

<u>INLE I ANEA JUWIWAN I</u>							
		_					
	AR	EA					
STRUCT. #	S.F.	ACRE					
CB1							
CB2	6,146	0.14					
CB3	5,136	0.12					
CB4	1,821	0.04					
CB5	3,118	0.07					
EXIST.	4,836	0.11					

INLET AREA MAP
DUNKIN DONUTS
1671 N IL 59
NAPERVILLE, IL 60563

ADVANTAGE CONSULTING ENGINEERS

PATEL PRAKASH 352 JENNIFER LANE ROSELLE, IL 60172

MARCH 04, 2022 JOB: 22-010 SHEET:

> DR1 **1** OF 12

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