VILLAGE OF Hinsdale Est. 1873

Village of Hinsdale
19 E. Chicago Avenue
Hinsdale, IL 60521-3489
(630)789-7000
Village Website: www.villageofhinsdale.org

PUBLIC SERVICES UTILITY PERMIT APPLICATION - Permit Fee of $100.00

Date of Application: 6/18/21 Permit No: NICOR-0010 Permit Expiration Date: 12/30/21

Utility Company Information:

Company Name: Nicor Gas
Address: 90 Finley Rd
City, State, Zip: Glen Ellyn, IL 60137
Contact Person: Josh Kennington
Phone Number: 630-675-0610
Email Address: g2nicorconcen@southernco.com
Cell Number: 630-675-0610
Project/Work Order Number: 135605/335605 Rev 1

Contractor Information:

Company Name: Northern Pipeline Company
Address: 750 E Diehl Rd Ste 135
City, State, Zip: Naperville, IL 60563
Contact Person: Dylan Hradek
Phone Number: 630-995-3124
Email Address: dhradek@gonpl.com
Cell Number: 630-995-3124

PROJECT LOCATION: Tri-State Tollway @ Hinsdale Oasis

Description of work covered under this permit: Install 2,155' of 2" PE, Retire 605' 2" PE(Per Attached Drawings)
**Estimated Cost $141,000.00 **

Start Date: ASAP **Completion Date:** ASAP

Site Plan/Details/Specifications (3 sets) included with application? ⦿ YES ○ NO
Currently registered as a Utility Contractor with the Village of Hinsdale? ⦿ YES ○ NO
Engineer Estimate of Cost included with application? ⦿ YES ○ NO

Type of Utility: ☐ ComEd ☑ Nicor ☐ Comcast ☐ Water ☐ Sewer
☐ Communications: ☐ Fiber Optic ☐ Wireless ☐ Other: _____

Applicant Information:

Print Name: Monty Jahns(Director-Nicor Gas) Phone Number: 630-317-1682
Company: Nicor Gas Email Address: jtrapp@southernco.com
Signature: Monty Jahns Date: 6/18/21

ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION IN EFFECT ON THE DATE OF PERMIT APPLICATION OF THE FOLLOWING: STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION & SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION, ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, AND THE VILLAGE OF HINSDALE SUBDIVISION ORDINANCES (Ord. O2007-73, 11-6-2007) AND ENGINEERING STANDARDS.

Village Use Only

Permit Approved: ☑ YES ☐ NO

Conditions for Approval/Reasons for Denial: RESTORE ALL DISTURBED AREAS WITHIN 14 DAYS OF COMPLETION.

Approved By: A. Diaz Date: 08/03/21

NICOR GAS - CONSTRUCTION
SC16211 - PUBLIC IMPROVEMENT FOR ISTHA
TRI-STATE TOLLWAY (I-294) AT HINSDALE OASIS
HINSDALE/WESTERN SPRINGS, ILLINOIS
W.O. 135605/335605

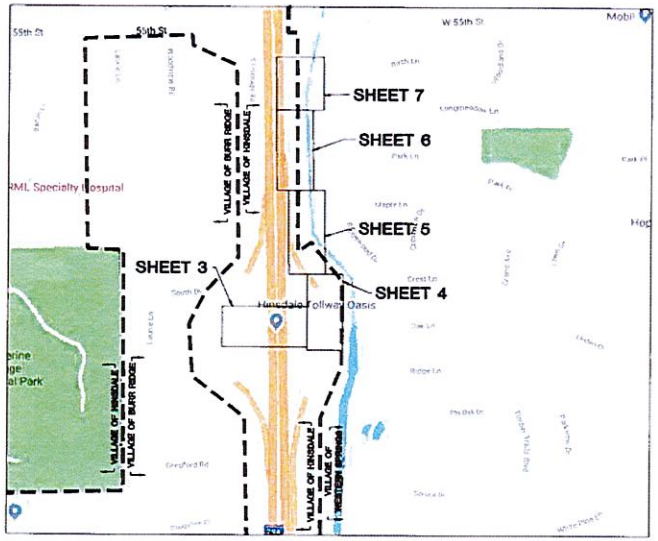
GENERAL NOTES:

1. CONTRACTOR TO INSTALL THE PROPOSED GAS MAIN TO THE ELEVATIONS SHOWN ON THE PLANS USING THE BENCHMARKS PROVIDED. APPROXIMATE COVER SHOWN AFTER THE REQUIRED ELEVATION IS FOR INFORMATION PURPOSES ONLY.
2. BACKFILL WITH SAND WHERE PIPE TRENCH IS UNDER OR WITHIN 2' OF PAVEMENT, CURB, OR SIDEWALK.
3. INSTALL PROPOSED MAIN USING ROAD STATIONING WHERE GIVEN. OTHER DIMENSIONS ARE FOR MAPPING PURPOSES ONLY.
4. ALL RIGHT-OF-WAY MUST BE STAKED AND STATIONING PROVIDED BEFORE GAS MAIN CAN BE INSTALLED.
5. INSTALL PIPELINE MARKERS PER GCS 249. SEE SPECIFICATION FOR ALL REQUIREMENTS. FOR CLASS 1 AND 2 LOCATIONS, MARKERS ARE REQUIRED OVER EACH BURIED MAIN AT EACH CROSSING OF A PUBLIC ROAD AND RAILROAD. IN ADDITION, PIPELINE MARKERS ARE REQUIRED AT ALL RAILROAD AND WATERWAY CROSSINGS.
6. INSTALL ALL MAIN WITH A MINIMUM COVER OF 3' UNLESS OTHERWISE NOTED.
7. PIPE CONTRACTOR SHALL INSTALL THE PROPOSED GAS MAINS CROSSING CONCRETE, ASPHALT, MACADAM, OR OTHER HARD SURFACED PAVEMENTS, WALKS, OR DRIVEWAYS BY BORING OR PUSHING UNLESS OTHERWISE SPECIFIED. CONTRACTOR WILL INSTALL A TEMPORARY PATCH PER GAS CONSTRUCTION SPECIFICATIONS FOR CONTRACTORS. PERMANENT REPAIRS TO BE COMPLETED BY OTHERS.
8. CONTRACTOR SHALL FURNISH AND INSTALL ALL CAPS AND OTHER FITTINGS NECESSARY FOR TESTING THE MAIN.
9. ALL 8" AND LARGER STEEL PIPE THAT IS BORED MUST BE DUAL COATED.
10. PLUG AND/OR CAP RETIRED 8" AND LARGER MAINS EVERY 660' PER GCS 849.
11. RETIRE OLD MAIN PER GCS 849.
12. IT IS THE RESPONSIBILITY OF THE NICOR GAS INSPECTOR, CONTRACTOR, AND ANYONE INVOLVED IN THE CONSTRUCTION OF THE FACILITIES TO FOLLOW THE LATEST NICOR GAS GWS AND GCS SPECIFICATIONS. CONTACT NICOR'S TECHNICAL SERVICES DEPARTMENT FOR A COPY OF THE LATEST EDITION.
13. COORDINATE WITH NICOR GAS INSPECTOR FOR LOCATION OF UNDERGROUND UTILITIES PRIOR TO STARTING ANY EXCAVATION. EXERCISE CARE WHEN EXCAVATING NEAR EXISTING STRUCTURES.
14. ANY PROPOSED DIRECTIONALLY BORED PIPE TO BE INSTALLED PER NICOR GAS DIRECTIONAL BORING GUIDELINES DATED DECEMBER 15, 2003.
15. UTILITY LOCATIONS SHOWN ON PLANS ARE APPROXIMATE AND MAY NOT BE ALL INCLUSIVE CONTRACTOR SHALL CONTACT J.U.L.I.E. AND LOCAL GOVERNMENT AGENCIES PRIOR TO CONSTRUCTION FOR ALL UTILITY LOCATIONS.
16. REMOVE TOP SECTION OF THE VALVE BOX FROM VALVES ON THE RETIRED MAIN. BACKFILL WITH SAND AND MATCH EXISTING PAVEMENT IF APPLICABLE.
17. IT IS THE RESPONSIBILITY OF THE CREW (INTERNAL OR CONTRACTOR) INSTALLING THE GAS FACILITIES TO LOCATE ALL SEWER MAINS AND LATERALS WITHIN THE SCOPE OF THE PROJECT. NO BORING, DIRECTIONAL DRILLING OR OTHER TRENCH LESS CONSTRUCTION METHODS SHALL BE EMPLOYED WITHOUT EITHER LOCATING SEWERS OR OBTAINING PROOF OF SEPTIC SYSTEMS. THE USE OF A SONDE DEVICE (CALIBRATED DAILY) IS RECOMMENDED FOR LOCATING THE SEWER FACILITIES. SPOTTING OF SEWER FACILITIES IS REQUIRED IF A SONDE DEVICE IS NOT USED (HOWEVER, SPOTTING OF FACILITIES MAY STILL BE REQUIRED WHEN USING A SONDE DEVICE). PROPER CLEARANCE OF GAS FACILITIES AND SEWER MAINS/LATERALS SHALL BE MAINTAINED PER GCS 700 SECTION 10.
18. CONTACT INFO:

NICOR GAS	TRANSMART/EJM ENGINEERING
GACA, JOC (CON-OPS SUPERINTENDENT)	DEUTER, WILL (TRISTATE TOLLWAY UTILITY COORDINATOR)
EMAIL: JGACA@SOUTHERNCO.COM	EMAIL: WDEUTER@EJMENGINEERING.COM
PHONE: (708) 243-5326	PHONE: (757) 709-1519

ENVIRONMENTAL NOTES:

1. PCB WIPE SAMPLES, PERFORMED BY NICOR GAS EMPLOYEES, ARE REQUIRED FOR ALL 4" AND LARGER PIPE THAT IS ABANDONED OR REMOVED ON THIS WORK ORDER. DIRECT QUESTIONS ON PCB WIPE SAMPLE PROCEDURES TO THE SYSTEM OPERATIONS DEPARTMENT OR KEITH BODGER (630-514-7589) IN ENVIRONMENTAL AFFAIRS (EA).
2. COLLECT AND PROPERLY DISPOSE OF ALL LIQUIDS FROM PIPELINES BEING RETIRED.
3. IN THE EVENT OF A SPILL, PLEASE IMMEDIATELY CALL DISPATCH (630-317-9111) AND ASK FOR THE ON-CALL ENVIRONMENTAL REPRESENTATIVE.
4. ANY RETIRED PIPE THAT MUST BE REMOVED FROM THE SITE SHOULD HAVE THE ENDS COVERED WITH PLASTIC OR SIMILAR MATERIAL UNTIL THE PCB WIPE SAMPLE LAB RESULTS ARE KNOWN. INDICATE ON THE "NICOR GAS PCB SAMPLE INFORMATION FORM" WHERE ANY PIPE REMOVED FROM THE SITE IS BEING TEMPORARILY LOCATED.
5. IF ASBESTOS COAL WRAP IS IDENTIFIED, REFER TO ASBESTOS COAL TAR WRAP REMOVAL GUIDELINES. REMOVAL MUST BE COMPLETED BY A TRAINED EMPLOYEE. FOR ANY QUESTIONS OF PROCEDURE OR TRAINED EMPLOYEES, CALL SCOTT MURPHY (630-368-3047) OR (224-578-6839) IN THE SAFETY DEPT.
6. IF CONTAMINATED SOIL IS SUSPECTED, CALL KEITH BODGER (630-514-7589) IN EA FOR REGULATORY COMPLIANCE INSTRUCTION.
7. ALL WETLANDS SHOULD BE IDENTIFIED ON THESE WORK ORDER DRAWINGS. WETLANDS AND WATERBODIES ARE GENERALLY LABELED AS "SITES." IF THERE IS A QUESTION ABOUT THE WETLAND BOUNDARIES OR BUFFERS, PLEASE CALL EA (JULIE PASCHAL AT 630-392-7013 OR ALICIA BISHOP 224-268-7283).
8. IF THE PROJECT HAS ENVIRONMENTAL PERMITS AND/OR A GREEN BINDER, THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE NICOR GAS STORM WATER POLLUTION PREVENTION PLAN FOR THE PROJECT. IF THERE ARE QUESTIONS, PLEASE CALL EA (JULIE PASCHAL AT 630-392-7013 OR ALICIA BISHOP 224-268-7283).
9. IF A FRAC OUT OCCURS DURING DIRECTIONAL DRILLING, THE CONTRACTOR IS RESPONSIBLE FOR STOPPING THE BORE, CONTAINING THE FRAC OUT MATERIAL, AND IMMEDIATELY CONTACTING EA (JULIE PASCHAL AT 630-392-7013 OR ALICIA BISHOP 224-268-7283). AFTER CONTAINING THE MATERIAL AND CONTACTING EA, THE CONTRACTOR MUST REMOVE THE FRAC OUT MATERIAL.
10. REFUEL AND STORE EQUIPMENT A MINIMUM OF 100 FEET FROM WETLANDS OR WATER BODIES.
11. INSTALL SOIL AND EROSION CONTROL PROTECTION TO PROTECT ANY OPEN GRATED STRUCTURES. I.E. INLETS, CATCH BASINS, OR MANHOLES WITHIN OR ADJACENT TO THE PROJECT AREA THAT ARE NEAR DISTURBED SOIL.
12. WHEN DEWATERING, DIRECT WATER TO A FLAT, UPLAND AREA TO ALLOW WATER TO SOAK INTO THE GROUND AND/OR USE FILTER BAGS AND WOOD FIBER LOGS TO REMOVE SOIL/SEDIMENT FROM THE WATER. NO SEDIMENT LADEN WATER IS ALLOWED TO ENTER INLETS, WETLANDS, WATER BODIES, ETC.
13. IF MUD IS BEING TRACKED ON THE STREETS BY EQUIPMENT AND/OR VEHICLES, DAILY STREET SWEEPING WILL BE REQUIRED.
14. ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL CONTOURS AND CONDITIONS. RESTORATION MUST BE INITIATED WITHIN 1 DAY DEPENDING ON PERMIT CONDITIONS.
15. ALL DAMAGED AREAS WILL BE RESTORED TO PREVIOUSLY EXISTING CONDITIONS OR BETTER.
16. THE UTILITY WILL MAINTAIN 18" OF VERTICAL SEPARATION AT ALL CROSSINGS WITH VILLAGE UTILITIES.
17. THE UTILITY WILL MAINTAIN 5' OF HORIZONTAL SEPARATION DURING ALL PARALLEL RUNS WITH VILLAGE UTILITIES.
18. CONTRACTORS WILL NOTIFY PROPERTY OWNERS OF CONSTRUCTION WITHIN EASEMENTS ON PRIVATE PROPERTY AT LEAST 48 HOURS PRIOR TO COMMENCING WORK.



N

LOCATION MAP
HINSDALE/WESTERN SPRINGS, ILLINOIS
(NOT TO SCALE)

IDENTIFIED BY NICOR UTILITY INSPECTOR					COMPLETED BY NICOR GAS*	
WIPE TEST #	WORK ORDER PAGE	TEST LOCATION	PIPE SIZE	PIPE MATERIAL	DATE TEST COMPLETED	COMMENTS

*TYPICALLY COMPLETED BY UTILITY INSPECTOR

NOTE:
NICOR UTILITY INSPECTOR TO IDENTIFY TEST LOCATIONS BASED UPON THE CRITERION OF ONE TEST FOR EACH "CUT AND CAP" ON PIPE THAT MEASURES FOUR INCHES IN DIAMETER OR GREATER. EN ENGINEERING AND NICOR GAS UNDERSTAND THAT FIELD PERSONNEL MAY DECIDE TO MOVE "CUT AND CAP" LOCATIONS, DELETE "CUT AND CAPS", OR CONDUCT ADDITIONAL "CUT AND CAPS". EN ENGINEERING UNDERSTANDS THAT NICOR GAS WILL INCLUDE WIPE TESTS AS PART OF THEIR ROUTINES TO COMPLETE A "CUT AND CAP" AND IT IS THE RESPONSIBILITY OF NICOR GAS TO ASSURE THAT NECESSARY WIPE TESTS ARE CONDUCTED AS REQUIRED BY FEDERAL REGULATIONS.

	DRAWING - SHEET	DESCRIPTION
1	WC221810- - 1	LOCATION MAP
1	WC221810- - 2	SITE PLAN, TEST DATA, AND SYMBOL LEGEND
1	WC221810- - 3	HINSDALE OASIS (WEST)
1	WC221810- - 4	TRI-STATE TOLLWAY (I-294)
1	WC221810- - 5	TRI-STATE TOLLWAY (I-294) AND FRONTAGE RAOD
1	WC221810- - 6	TRI-STATE TOLLWAY (I-294) AND FRONTAGE ROAD
1	WC221810- - 7	TRI-STATE TOLLWAY (I-294), BIRCH LANE AND FRONTAGE ROAD
	WC221810- - 8	CULVERT CROSS SECTION
1	WC221810- - 9	EROSION CONTROL AND ENVIRONMENTAL DETAILS (1 OF 2)
1	WC221810- - 10	ENVIRONMENTAL DETAILS (2 OF 2)

INSTALL 2" PE TO SERVE NEW IPDC GENERATOR AND TO CONTINUE SERVICE TO EAST SIDE GAS STATION. EXISTING SERVICE IN CONFLICT WITH OASIS DEMOLITION.

Call Before You Dig
JULIE ILLINOIS ONE-CALL SYSTEM 811
Illinois1call.com

JULIE DIG #A0880445

REQUIRED PERMITS APPROVAL BEFORE CONSTRUCTION	REQUIRED	APPROVED DATE
LAND SERVICES — APPROVAL		
RAILROAD		
HIGHWAY, STATE		
HIGHWAY, COUNTY		
FOREST PRESERVE		
SANITARY DIST.		
PRIVATE PROP. EASEMENT		
FRONTAGE		
OTHER GOV. AGENCY		
ENVIRONMENTAL — APPROVAL		
WATERWAYS		
WETLANDS		
CONTAMINATED SOIL		
STORM WATER		

TOTAL WORK ORDER QUANTITIES		
TOTAL PIPE INSTALLATION	ESTIMATED	ACTUAL
2"# PIPE IPS PE SDR 11.0	2155'	
TOTAL PIPE RETIREMENT	ESTIMATED	ACTUAL
2" PE SERVICE	805'	
TOTAL PIPE BORING	ESTIMATED	ACTUAL
2" BORING	2155'	
TOTAL TRENCH BACKFILL	55 C.Y.	
TOTAL ASPHALT & CONCRETE BREAKS	225 SQ. FT.	
TOTAL SERVICE TRANSFERS	2	

REVISION 1

MULTIPLE PRESSURES
25#/60#
MOP PRESSURE

ISTHA CONTRACT #I-19-4456/#I-17-4298

SEALED BY: LICENSED PROFESSIONAL ENGINEER MACIEJ R BENESIEWICZ 062-069267 OF ILLINOIS
SIGNATURE
SEALED ON: 6/16/2021
LICENSE EXPIRATION: 11/30/2021

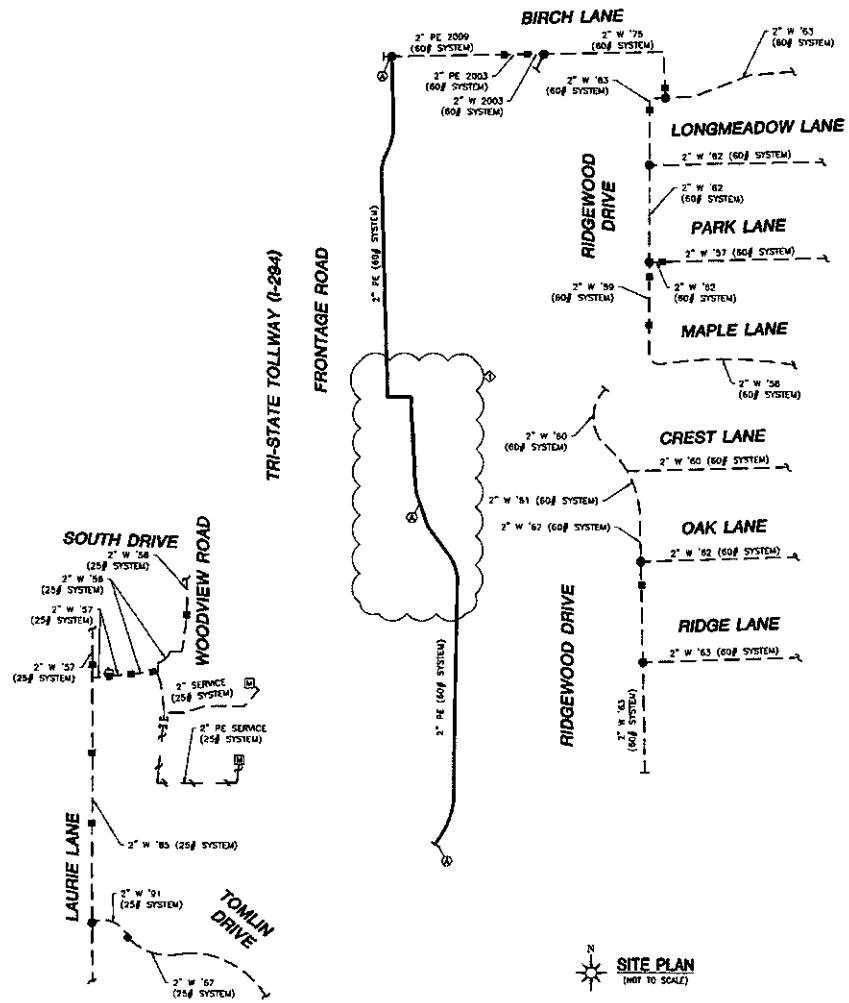
APPROVED FOR CONSTRUCTION

REV.	DESCRIPTION	BY	CHK'D BY	APP'D. BY	DATE
1	UPDATED PLANS PER ISTHA COMMENTS	EC	LS	MB	06/15/21

PREPARED FOR: Nicor Gas

PREPARED BY: ENEngineering
28100 TORCH PARKWAY, STE. 400
WARRENVILLE, IL 60555
TEL: 630-353-4000
FAX: 630-353-7777
WWW.ENENGINEERING.COM

COUNTY: COOK	TOWNSHIP: LYONS		1/4 SECTION: 181 182
TOWN: HINSDALE/WESTERN SPRINGS	TOWN: T38N	RANGE: 12E 3PM	183 184
REGION: SOUTH CENTRAL CONST.	DEPARTMENT	ENGINEER/DESIGNER: R. SIERMON	DATE: 04-10-19
WORK ORDER NO.: 135605/335605		DRAWN BY: G. DIAZ	DATE: 04-10-19
NICOR JOB NO.: SC15211	NODE/LB NO.	CHECKED BY: L. SOJA	DATE: 10-18-19
EN PROJECT NO.: 1900001.11		CONSULTANT: D. SMITH	DATE: 10-25-19
SCALE: NOT TO SCALE		APPROVED BY: M. BENESIEWICZ	DATE: 10-31-19
DATE IN SERVICE		DRAWING FILE NO.: WC221810-	SHEET 1 OF 10



SYMBOL LEGEND	
T	PURGE END (GCS 209 / 709)
	ANODE (GCS 513/514)
	LATERAL TEE (GCS 210 .21-.33, 720, 721)
	PRESSURE CNTL. FTG. (GCS 210.58/39)
	TRANSITION FITTING (GCS 703)
	VALVE - GENERAL
	REDUCER (GMS 308 & 336)
	INS. COUPLING (ETC)
	TIN WHISTLE (GMS 639.2, .3, .4)
	DUAL 5' x 5' VAULT
	CUT AND CAP (GCS 849)
	RETIRE MAIN (GCS 849)
	EXCAVATE AREA (GCS 870)
	SERVICE METER

TEST SECTION		DESCRIPTION				LEAK TEST PER GCS 887				STRENGTH TEST PER GCS 888						WELD INSPECTION PER GCS 811			FIELD RECORD PER GCS 880		
SECTION	MOP	TYPE	TOTAL LENGTH	DIA	MAT'L	PAGE	TEST PRESSURE (PSI)	PRESS. % DIAGRAM	DOES 5/30 MEASURE	MIN. HOURS	TEST PRESSURE (PSI)	P. DROP AT (PSI) PIPE	FITTINGS	TEST MEDIUM AIR/N2	WATER (BRACKETS)	ALLOWABLE ΔP (PSI) FORM 101	MIN. HOURS	VISUAL	RADIOGRAPHIC (%)	OTHERS	SECTION	DIA	PIPE IDENTIFICATION "DATA FROM"-FIELD, MAP, ETC
Ⓐ	60	1	2155'	2"	PE	4-7	90	–	–	3	NOT REQUIRED							☐		☐	Ⓐ	2"	

MULTIPLE PRESSURES

REVISION 1

PREPARED FOR: Nicor Gas

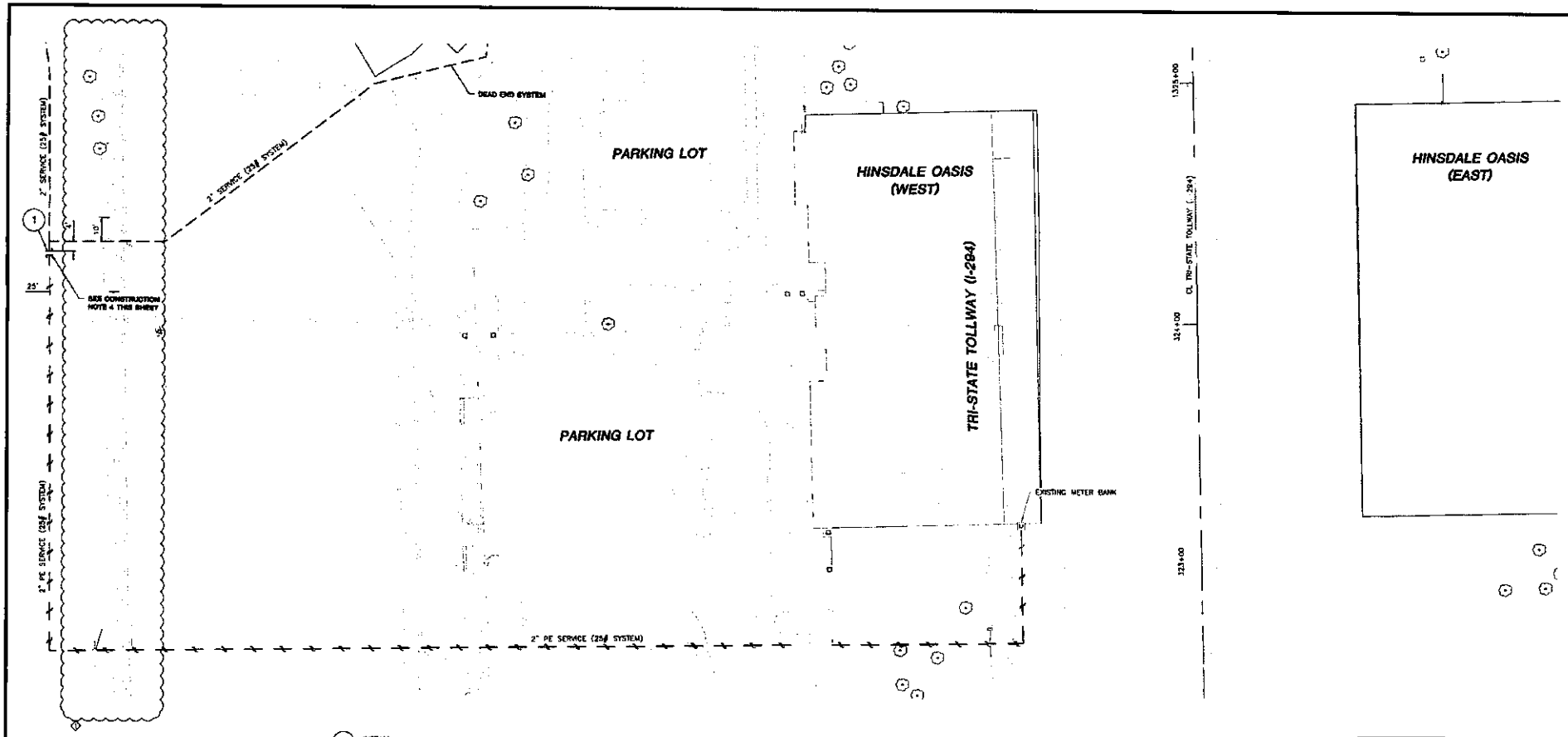
PUBLIC IMPROVEMENT
SITE PLAN, TEST DATA, AND SYMBOL LEGEND
HINSDALE/WESTERN SPRINGS, ILLINOIS

PREPARED BY: ENGineering
28100 TORCH PARKWAY, SUITE 400
WARRENVILLE, IL 60555
TEL. 630-393-4000
FAX 630-393-7777
WWW.ENGINEERING.COM

REV.	DESCRIPTION	BY	CHK'D BY	APP'D BY	DATE
1	UPDATED SITE PLAN	EC	LS	MB	06/13/19

APPROVED FOR CONSTRUCTION

COUNTY: COOK	TOWNSHIP: LYONS		1/4 SECTION: 181 182
TOWN: HINSDALE / WESTERN SPRINGS	TOWN: 138N	RANGE: 12E 3PM	183 184
REGION: SOUTHWEST	DRAWN/INSPECTOR: R. SEERMON		DATE: 04-10-19
SOUTH CENTRAL CONST.			
WORK ORDER NO.: 135605/3356605/435605	DRAWN BY: C. DIAZ		DATE: 04-10-19
MAPS AND NO.: SC15211	MODEL/GIS NO.:	CHECKED BY: L. SOJA	DATE: 10-16-19
THE PROJECT NO.: 19000031.11		CONCEIVED: D. SMITH	DATE: 10-25-19
SCALE: NOT TO SCALE		APPROVED BY: M. BENESHOWCZ	DATE: 10-31-19
DATE IN SERVICE:		DRAWING FILE NO.: WC221810-	SHEET 2 OF 10



1 INSTALL
(1) GCS 714.02* (ETC/ETS CONNECTIONS FOR PE SYSTEMS IN RURAL AREAS)
*INCL: (1) BOX TERMINAL 18 LONG 4 OD PLASTIC SHAFT
(1) BLOCK, WOOD 2"x10"x12"
(1) WIRE, (COPPER #12 GAUGE), YELLOW TRACING WIRE, 12 AWG SOLID, 30 MIL COATING
(1) CONNECTOR, TRACER WIRE, SILCONE FILLED, DIRECT BURY, KING INNOVATION CATALOG #90120
(1) 9# ZINC TRACER WIRE SIGNAL GROUND CELL, PER ASTM B6-07, SPECIAL HIGH GRADE ZINC
(1) GCS 249.5 (BULLET-STYLE PIPELINE MARKER)

CUT & CAP
(1) GCS 709.21* (PURGE END 2" MAIN W/ 2"X1" WHIP BF)
*INCL: (1) 2"x1" REDUCING PURGE END IPS CTS PE
(1) 1" CAP BE PE CON STAB CTS
(AS REQ'D) 2" PIPE IPS PE SDR 11.0
(1) GCS 714.01 (LOCATING WIRE ON PE MAIN END)
(SEAL RETIRED MAIN PER GCS 849)

CUT & CAP AS CLOSE TO THREE WAY TEE AS POSSIBLE.

CONSTRUCTION NOTES:
1. INSTALL PIPELINE MARKERS PER GCS 249. SEE SPECIFICATION FOR ALL REQUIREMENTS. FOR CLASS 1 & 2 LOCATIONS, MARKERS ARE REQUIRED OVER EACH BURIED MAIN AT EACH CROSSING OF A PUBLIC ROAD. IN ADDITION, PIPELINE MARKERS ARE REQUIRED AT ALL RAILROAD AND WATERWAY CROSSINGS.
2. LOCATION AND SIZE OF STOCKPILES AND SILT FENCE AROUND STOCKPILES ARE APPROXIMATE. CONTRACTOR TO DETERMINE EXACT LOCATION AND SIZE AT THE TIME OF CONSTRUCTION.
3. ALL RIGHT-OF-WAY AND EASEMENTS TO BE SURVEYED AND STAKED PRIOR TO CONSTRUCTION.
4. CONTRACTOR TO COORDINATE CUTTING OF SERVICE WITH TOLLWAY. SERVICE TO OASIS MUST CONTINUE WHILE IT IS OPERATIONAL.
5. THIS SHEET LIES ENTIRELY WITHIN TOLLWAY RIGHT OF WAY LIMITS.

ENVIRONMENTAL NOTES:
1. CONTRACTOR TO DETERMINE LOCATION OF STAGING AREAS WITH STABILIZED CONSTRUCTION ENTRANCES, AT THE TIME OF CONSTRUCTION.
2. ALL BORE PITS AND STOCKPILES TO BE ENCLOSED BY A SINGLE ROW OF SILT FENCE.

N

SYMBOL LEGEND
BORE PIT W/ SILT FENCE
APPROXIMATE LOCATION OF STOCKPILE W/ SILT FENCE

WORK ORDER QUANTITIES THIS SHEET		
PIPE INSTALLATION THIS SHEET	ESTIMATED	ACTUAL
NONE	0'	
PIPE REPLACEMENT THIS SHEET	ESTIMATED	ACTUAL
2" PE SERVICE	905'	
PIPE BORING THIS SHEET	ESTIMATED	ACTUAL
NONE	0'	
TRENCH BACKFILL THIS SHEET	5 C.Y.	
ASPHALT & CONCRETE BREAKS THIS SHEET	0 SQ. FT.	
SERVICE TRANSFERS THIS SHEET	0	

APPROVED FOR CONSTRUCTION

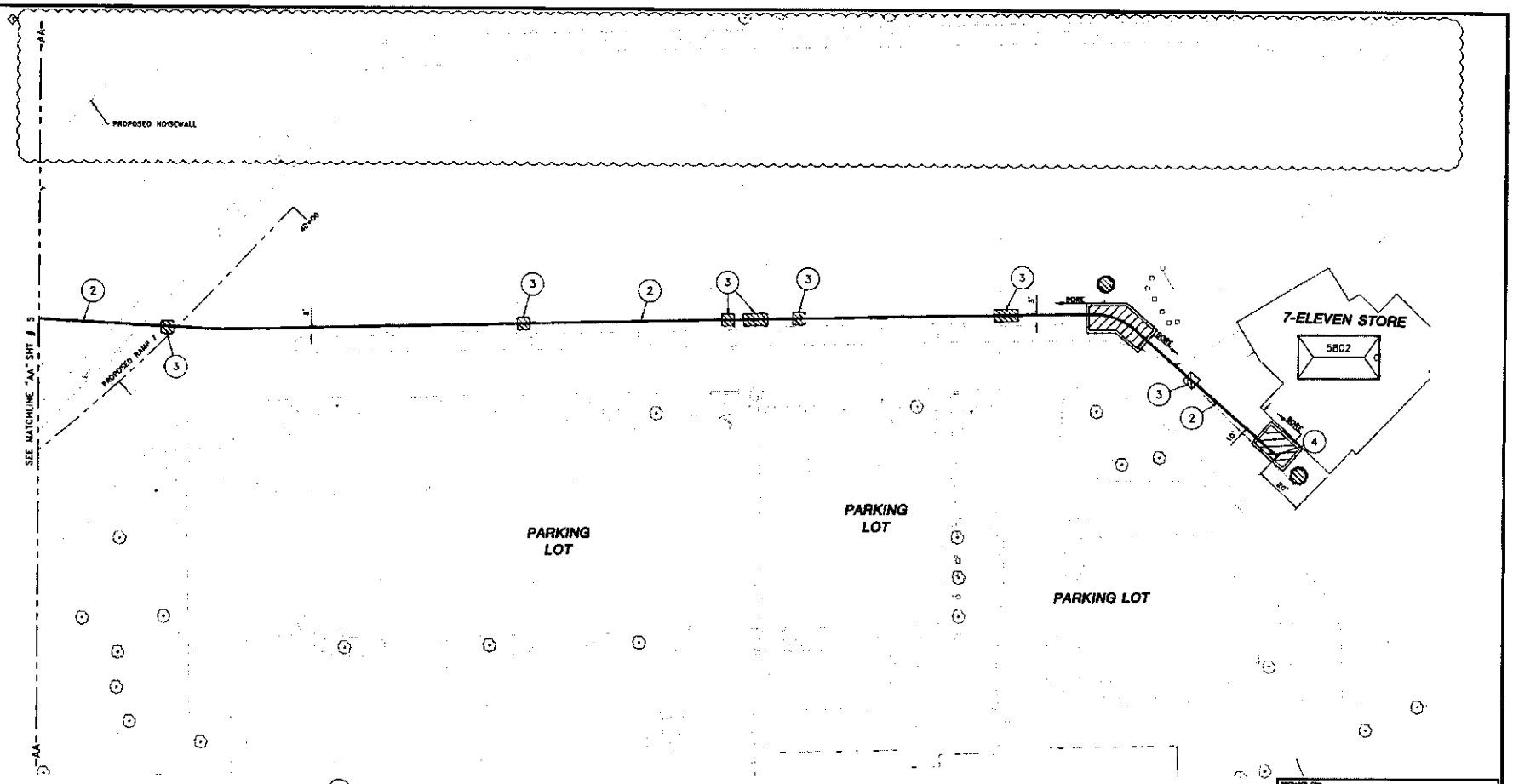
REV	DESCRIPTION	BY	CHK'D	APP'D.	BY	DATE
1	UPDATED ISTHA CAD FILES	DC	LS	MB		08/15/21

REVISION 1

PREPARED FOR
Nicor Gas
PUBLIC IMPROVEMENT
HINSDALE OASIS (WEST)
HINSDALE, ILLINOIS

PREPARED BY
ENGineering
26100 TORCH PARKWAY, SUITE 409
WARRENVILLE, IL 60555
TEL 630-353-6000
FAX 630-353-7777
WWW.ENGINEERING.COM

County: COOK	Township: LYONS		T/R SECTION: 151
Town: HINSDALE	Township: 38N	Range: 12E	3PM
Region: SOUTH CENTRAL CONST.	Department:	Drawn/Designed: P. SCEDIMON	Date: 04-10-19
Work Order No.: 135805/335605/435805	Project No.:	Drawn by: G. DIAZ	Date: 04-10-19
Design Job No.: SC15211	Project No.:	Checked by: L. SOJA	Date: 10-16-19
Gas Project No.: 1900001.11		Designer: D. SMITH	Date: 10-25-19
Scale: 1"=20'		Approved by: M. BENESKOVICZ	Date: 10-31-19
Date in Service:		Nicor Gas Job No.: WC221610-	Sheet 3 of 10



(2) INSTALL
(525') 2"# PIPE IPS PE SDR 11.0
(TEST SECTION "A")
(80# SYSTEM)

(3) BREAK & REPLACE
(5) 5'x5' ASPHALT PAVEMENT
(2) 5'x10' ASPHALT PAVEMENT

(4) INSTALL
(1) GCS 709.21* (PURGE END 2" MAIN W/ 2"X1" WHIP BF)
*INCL: (1) 2"x1" REDUCING PURGE END IPE CTS PE
(1) 1" CAP BE PE CON STAB CTS
(AS REQ'D) 2" PIPE IPS PE SDR 11.0
(1) GCS 714.01 (LOCATING WIRE ON PE MAIN END)

EXTEND MAIN TO LAST SERVICE

CONSTRUCTION NOTES:
1. INSTALL PIPELINE MARKERS PER GCS 249. SEE SPECIFICATION FOR ALL REQUIREMENTS. FOR CLASS 1 & 2 LOCATIONS, MARKERS ARE REQUIRED OVER EACH BURIED MAIN AT EACH CROSSING OF A PUBLIC ROAD. IN ADDITION, PIPELINE MARKERS ARE REQUIRED AT ALL RAILROAD AND WATERWAY CROSSINGS.
2. LOCATION AND SIZE OF STOCKPILES AND SILT FENCE AROUND STOCKPILES ARE APPROXIMATE. CONTRACTOR TO DETERMINE EXACT LOCATION AND SIZE AT THE TIME OF CONSTRUCTION.
3. ALL RIGHT-OF-WAY AND EASEMENTS TO BE SURVEYED AND STAKED PRIOR TO CONSTRUCTION.
4. THIS SHEET LIES ENTIRELY WITHIN TOLLWAY RIGHT OF WAY LIMITS.

ENVIRONMENTAL NOTES:
1. CONTRACTOR TO DETERMINE LOCATION OF STAGING AREAS WITH STABILIZED CONSTRUCTION ENTRANCES, AT THE TIME OF CONSTRUCTION.
2. ALL BORE PITS AND STOCKPILES TO BE ENCLOSED BY A SINGLE ROW OF SILT FENCE.

SYMBOL LEGEND	
	BORE PIT W/ SILT FENCE
	APPROXIMATE LOCATION OF STOCKPILE W/ SILT FENCE

WORK ORDER QUANTITIES THIS SHEET		
PIPE INSTALLATION THIS SHEET	ESTIMATED	ACTUAL
2"# PIPE IPS PE SDR 11.0	525'	
PIPE RETIREMENT THIS SHEET	ESTIMATED	ACTUAL
NONE	0'	
PIPE BORING THIS SHEET	ESTIMATED	ACTUAL
2" BORING	525'	
TRENCH BACKFILL THIS SHEET		
	30 C.Y.	
ASPHALT & CONCRETE BREAKS THIS SHEET		
	225 SQ. FT.	
SERVICE TRANSFERS THIS SHEET		
	1	

N

REVISION 1

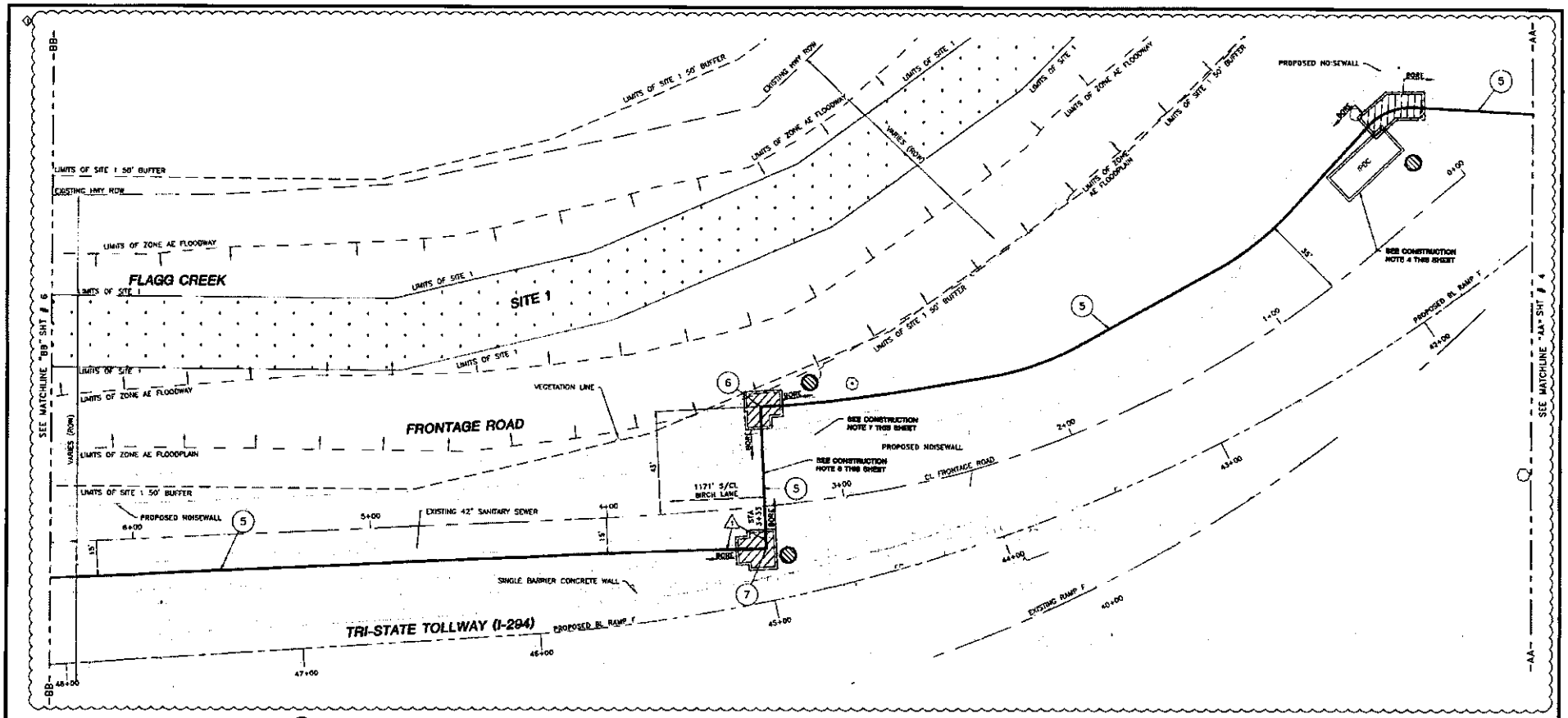
APPROVED FOR CONSTRUCTION

REV.	DESCRIPTION	BY	CHK'D BY	APP'D BY	DATE
1	UPDATED ISTHA CAD FILES	EC	LS	MB	09/15/21

PREPARED FOR: Nicor Gas
PUBLIC IMPROVEMENT
TRI-STATE TOLLWAY (I-294)
HINSDALE, ILLINOIS

PREPARED BY: ENgineering
26105 TORCH PARKWAY, SUITE 400
WARRENVILLE, IL 60555
TEL 630-353-4000
FAX 630-353-7777
WWW.ENGINEERING.COM

COUNTY: COOK	TOWNSHIP: LYONS		1/4 SECTION: 182
TOWN: HINSDALE	SEC: 13BM	RANGE: 12E 3PM	184
REGION: SOUTH CENTRAL CONST.	DIVISION/DEPT:	ENGINEER/DESIGNER: R. SEERMON	DATE: 04-10-19
WORK ORDER NO.: 135605/203809/435605		DRAWN BY: G. DIAZ	DATE: 04-10-19
WORK JOB NO.: SC18211	MODEL/JO NO.:	CHECKED BY: L. SOJA	DATE: 10-16-19
THE PROJECT NO.: 1900001.11		CONVERSION: D. SMITH	DATE: 10-25-19
SCALE: 1"=20'		APPROVED BY: M. RONESKWICZ	DATE: 10-31-19
DATE OF SERVICE:		DRAWING FILE NO.: WC221810-	SHEET 6 OF 10



SYMBOL LEGEND

- BORE PIT W/ SILT FENCE
- APPROXIMATE LOCATION OF STOCKPILE W/ SILT FENCE

WORK ORDER QUANTITIES THIS SHEET

PIPE INSTALLATION THIS SHEET	ESTIMATED	ACTUAL
2"# PIPE IPS PE SDR 11.0	725'	
PIPE RETIREMENT THIS SHEET	**ESTIMATED**	**ACTUAL**
NONE	0'	
PIPE BORING THIS SHEET	**ESTIMATED**	**ACTUAL**
2" BORING	725'	
TRENCH BACKFILL THIS SHEET	**YD C.Y.**	
ASPHALT & CONCRETE BREAKS THIS SHEET	**0 SQ. FT.**	
SERVICE TRANSFERS THIS SHEET	1	

(5) **INSTALL**
(725') 2"# PIPE IPS PE SDR 11.0
(TEST SECTION "A")
(60# SYSTEM)

(6) **INSTALL**
(1) 2" 90° ELL IPS PE SDR 11.0
(1) GCS 249.5 (BULLET-STYLE PIPELINE MARKER)

(7) **INSTALL**
(1) 2" 90° ELL IPS PE SDR 11.0
(1) GCS 249.5 (BULLET-STYLE PIPELINE MARKER)
(1) GCS 714.02# (ETC/ETS CONNECTIONS FOR PE SYSTEMS IN RURAL AREAS)
*INCL: (1) BOX TERMINAL 18 LONG 4 OD PLASTIC SHAFT
(1) BLOCK, WOOD 2"x10"x12"
(1) WIRE, (COPPER #12 GAUGE), YELLOW TRACING WIRE, 12 AWG SOLID, 30 MIL COATING
(1) CONNECTOR, TRACER WIRE, SILCONE FILLED, DIRECT BURY, KING INNOVATION CATALOG #90120
(1) 5# ZINC TRACER WIRE SIGNAL GROUND CE11, PER ASTM B8-87, SPECIAL HIGH GRADE ZINC

CONSTRUCTION NOTES:

1. INSTALL PIPELINE MARKERS PER GCS 249. SEE SPECIFICATION FOR ALL REQUIREMENTS. FOR CLASS 1 & 2 LOCATIONS, MARKERS ARE REQUIRED OVER EACH BURIED MAIN AT EACH CROSSING OF A PUBLIC ROAD. IN ADDITION, PIPELINE MARKERS ARE REQUIRED AT ALL RAILROAD AND WATERWAY CROSSINGS.
2. LOCATION AND SIZE OF STOCKPILES AND SILT FENCE AROUND STOCKPILES ARE APPROXIMATE. CONTRACTOR TO DETERMINE EXACT LOCATION AND SIZE AT THE TIME OF CONSTRUCTION.
3. ALL RIGHT-OF-WAY AND EASEMENTS TO BE SURVEYED AND STAKED PRIOR TO CONSTRUCTION.
4. TOLLWAY TO COORDINATE WITH NICOR CUSTOMER DEVELOPMENT GROUP FOR NEW SERVICE TO PROPOSED BACKUP GENERATOR.
5. CONTRACTOR TO COORDINATE PROPOSED NOISE WALL CROSSING AT STATION 45+00 WITH RESIDENT ENGINEER OF ISTHA CONTRACT 4456. 3' DEPTH ACCEPTABLE IF NOISE WALL PILLAR SUPPORTS AUGURED INTO PLACE AT A HORIZONTAL DISTANCE OF AT LEAST 2'. CONTACT ENE DESIGN ENGINEER IF VIBRATORY CONCERNS WITH GAS MAIN.
6. STATIONING ALONG FRONTAGE ROAD PLACED ARBITRARILY TO FACILITATE THE INSTALLATION OF MAIN.
7. APPROXIMATE LOCATION OF PROPOSED TYPE C CATCH BASIN AND 12" STORM SEWER. CONTRACTOR TO COORDINATE WITH RESIDENT ENGINEER AT TIME OF CONSTRUCTION.

ENVIRONMENTAL NOTES:

1. CONTRACTOR TO DETERMINE LOCATION OF STAGING AREAS WITH STABILIZED CONSTRUCTION ENTRANCES, AT THE TIME OF CONSTRUCTION.
2. ALL BORE PITS AND STOCKPILES TO BE ENCLOSED BY A SINGLE ROW OF SILT FENCE.
3. NEAREST NAVIC FLOOD ELEVATION (BFE) = 840 FEET.

N

LOC.	MAIN SIZE	DISTANCE FROM: LOCATION	BIRCH LANE	EXISTING R.O.W.	EXISTING CL	PROPOSED T.O.P. ELEVATION	PROPOSED MAIN: BEFORE ROAD WORK	AFTER ROAD WORK	REASON
1	2"	3+33 TO 3+51	F153' S TO 1171' S.	180' W/E	14' W TO 17' W.	844.0	4'-6"	3'-0" MIN.	INSTALL 18' OF 2" PE MAIN BELOW PROPOSED 1.5' GRADE CUTS

APPROVED FOR CONSTRUCTION

REV.	DESCRIPTION	BY	CHK'D BY	APP'D. BY	DATE
1	UPDATED RUNNING LINE PER ISTHA COMMENTS	EC	LS	MS	06/13/19

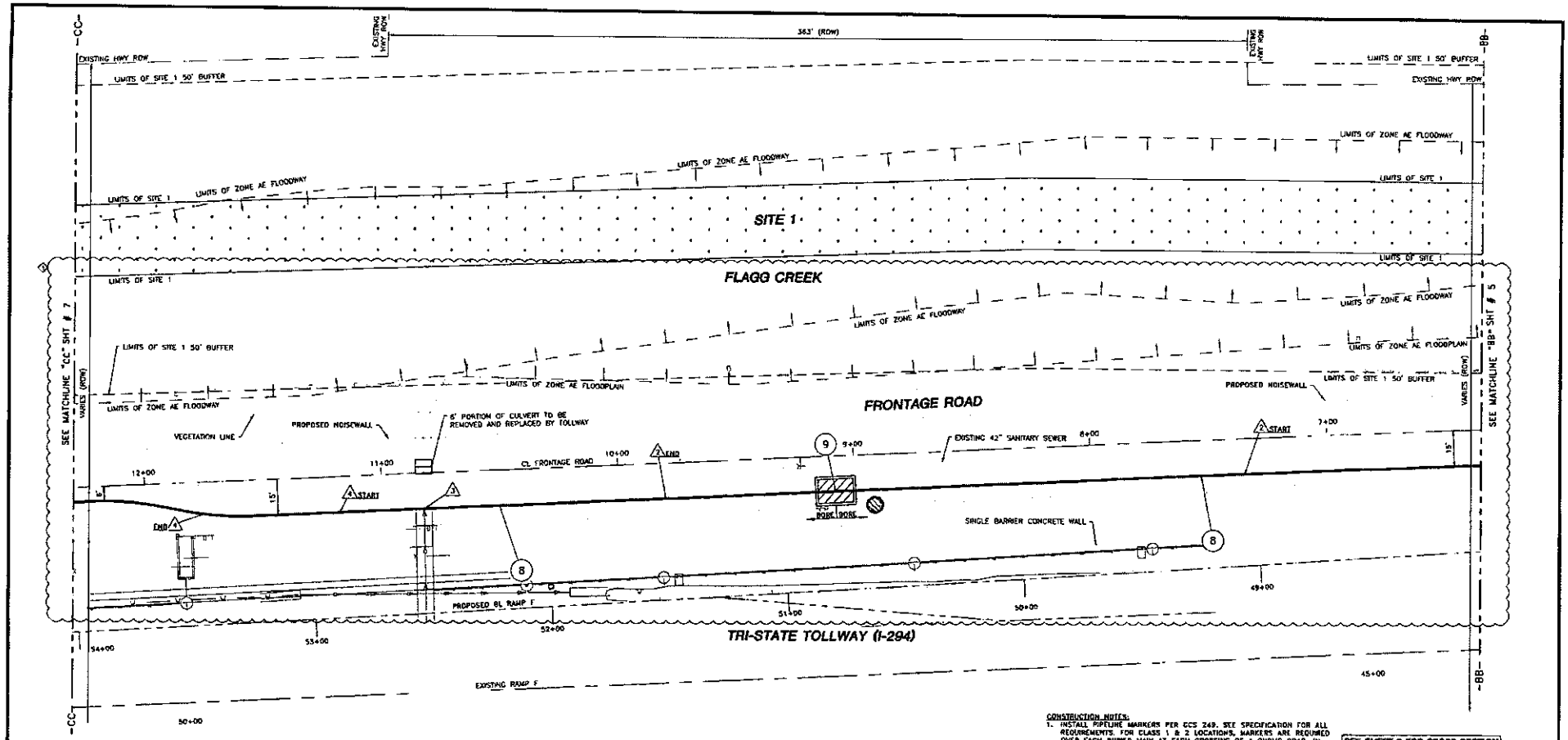
REVISION 1

PREPARED FOR: Nicor Gas

PUBLIC IMPROVEMENT
TRI-STATE TOLLWAY (I-294)
AND FRONTAGE ROAD
HINSDALE/WESTERN SPRINGS, ILLINOIS

PREPARED BY: ENGineering
28100 TORCH PARKWAY, SUITE 400
WARRENVILLE, IL 60555
TEL. 630-353-4000
FAX 630-353-7777
WWW.ENGINEERING.COM

COUNTY: COOK	TOWNSHIP: LYONS		1/4 SECTION: 181
TOWN: HINSDALE/ WESTERN SPRINGS	RANGE: 13E	SECTION: 12	3PM
DESIGN: SOUTH CENTRAL CONST.	DRAWN BY: R. SEERMON	TECHNICAL REVIEWER:	DATE: 04-10-19
WORK ORDER NO.: 135605/135805/435805		CHECKED BY: C. DIAZ	DATE: 04-10-19
WORK RQ NO.: SC10211	WBS/JOB NO.:	CHECKED BY: L. SOJA	DATE: 10-16-19
ENE PROJECT NO.: 19000001.11		CONCURRENCE: D. SMITH	DATE: 10-25-19
SCALE: 1"=20'		APPROVED BY: M. BENESHOWICZ	DATE: 10-31-19
DATE IN SERVICE:		DRAWING FILE NO.: WC221810—	SHEET 5 OF 10



SYMBOL LEGEND
BORE PIT W/ SILT FENCE
APPROXIMATE LOCATION OF STOCKPILE W/ SILT FENCE

WORK ORDER QUANTITIES THIS SHEET		
PIPE INSTALLATION THIS SHEET	ESTIMATED	ACTUAL
2"# PIPE IPS PE SDR 11.0	600'	
PIPE RETIREMENT THIS SHEET	ESTIMATED	ACTUAL
NONE	0'	
PIPE BORING THIS SHEET	ESTIMATED	ACTUAL
2" BORING	600'	
TRENCH BACKFILL THIS SHEET		
	5 C.Y.	
ASPHALT & CONCRETE BREAKS THIS SHEET		
	0 SQ. FT.	
SERVICE TRANSFERS THIS SHEET		
	0	

(8) INSTALL
(600') 2"# PIPE IPS PE SDR 11.0
(EST SECTION "A")
(60# SYSTEM)

(9) INSTALL
(1) GCS 714.02" (EIC/EIS CONNECTIONS FOR PE SYSTEMS IN RURAL AREAS)
*INCL: (1) BOX TERMINAL 18 LONG 4 OD PLASTIC SHAFT
(1) BLOCK, WOOD 2"x10"x12"
(1) WIRE, (COPPER #12 GAUGE), YELLOW TRACING WIRE, 12 AWG SOLID, 30 MIL COATING
(1) CONNECTOR, TRACER WIRE, SILICONE FILLED, DIRECT BURY, KING INNOVATION CATALOG #90120
(1) 5# ZINC TRACER WIRE SIGNAL GROUND CELL, PER ASTM B6-87, SPECIAL HIGH GRADE ZINC

N

CONSTRUCTION NOTES:
1. INSTALL PIPELINE MARKERS PER GCS 249. SEE SPECIFICATION FOR ALL REQUIREMENTS. FOR CLASS 1 & 2 LOCATIONS, MARKERS ARE REQUIRED OVER EACH BURIED MAIN AT EACH CROSSING OF A PUBLIC ROAD. IN ADDITION, PIPELINE MARKERS ARE REQUIRED AT ALL RAILROAD AND WATERWAY CROSSINGS.
2. LOCATION AND SIZE OF STOCKPILES AND SILT FENCE AROUND STOCKPILES ARE APPROXIMATE. CONTRACTOR TO DETERMINE EXACT LOCATION AND SIZE AT THE TIME OF CONSTRUCTION.
3. ALL RIGHT-OF-WAY AND EASEMENTS TO BE SURVEYED AND STAKED PRIOR TO CONSTRUCTION.
4. STATIONING ALONG FRONTAGE ROAD PLACED ARBITRARILY TO FACILITATE THE INSTALLATION OF MAIN.

ENVIRONMENTAL NOTES:
1. CONTRACTOR TO DETERMINE LOCATION OF STAGING AREAS WITH STABILIZED CONSTRUCTION ENTRANCES, AT THE TIME OF CONSTRUCTION.
2. ALL BORE PITS AND STOCKPILES TO BE ENCLOSED BY A SINGLE ROW OF SILT FENCE.
3. NEAREST BASE FLOOD ELEVATION (BFE) = 840 FEET.

REVISION 1

LOC.	MAIN SIZE	DISTANCE FROM: LOCATION	DISTANCE FROM: BIRCH LANE	DISTANCE FROM: EXISTING R.O.W.	DISTANCE FROM: EXISTING CL.	PROPOSED T.O.P. ELEVATION	PROPOSED MAIN: BEFORE ROAD WORK	PROPOSED MAIN: AFTER ROAD WORK	REASON
2	2"	7+55 TO 9+80	524' S TO 769' S	N/A	15' W	841.5	4'-8"	3'-0" MIN.	INSTALL 245' OF 2" PE MAIN BELOW PROPOSED 1.5' GRADE CUTS
3	2"	10+82	422' S	231' W/E	15' W	834.5	12'-0"	11'-0"	INSTALL 2" PE MAIN BELOW EXISTING 5'x7' BOX CULVERT W/ INV. ~838.07
4	2"	11+18 TO 11+78	329' S TO 368' S	191' W/E	15' W	841.5	4'-0"	3'-0" MIN.	INSTALL 58' OF 2" PE MAIN BELOW PROPOSED 1' GRADE CUTS

APPROVED FOR CONSTRUCTION

REV	DESCRIPTION	BY	CHK'D BY	APP'D BY	DATE
1	UPDATED ISTHA CAD FILES	EC	LS	MB	08/15/11

SEE SHEET 8 FOR CROSS SECTION

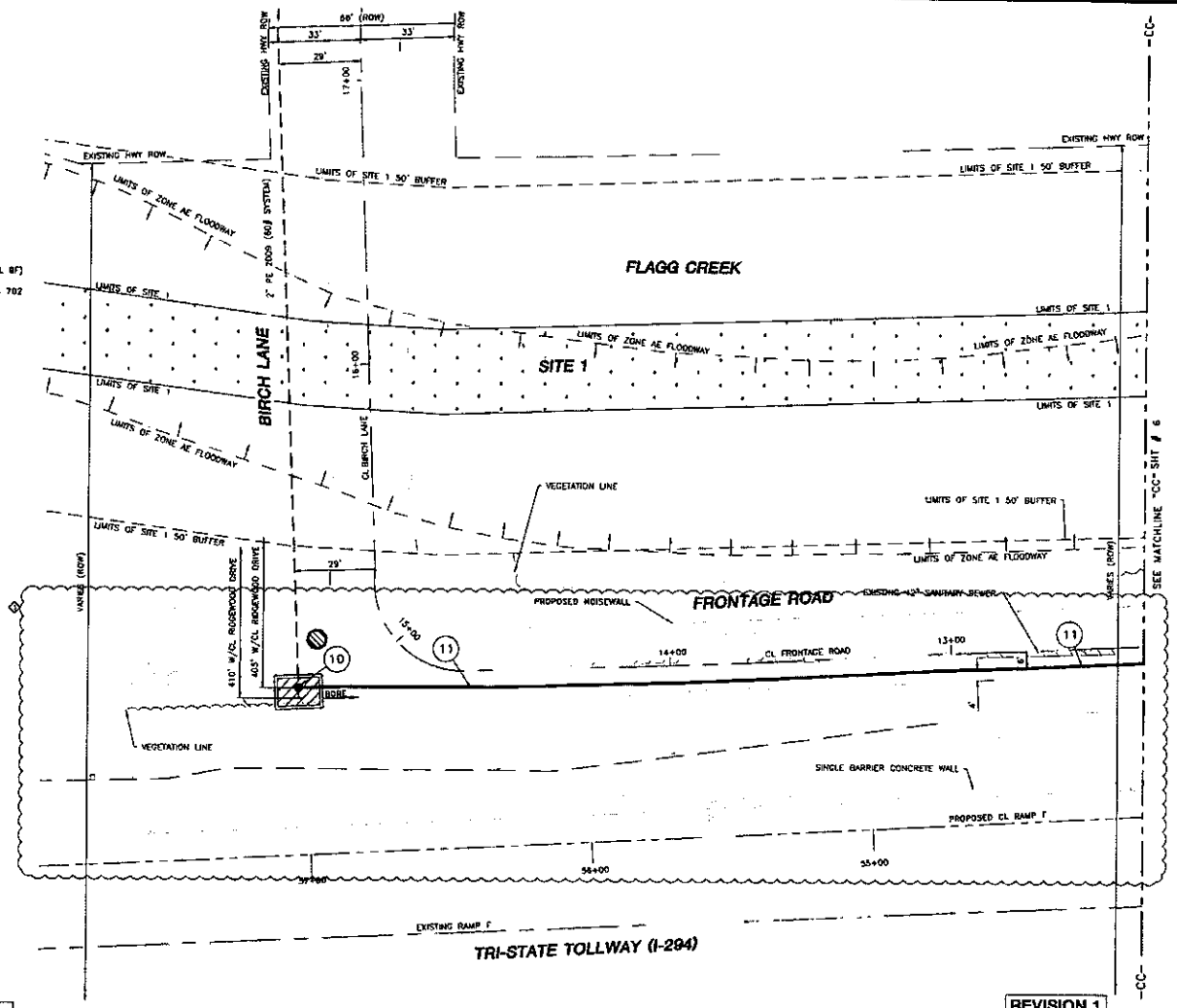
PREPARED FOR: Nicor Gas
PUBLIC IMPROVEMENT
TRI-STATE TOLLWAY (I-294)
AND FRONTAGE ROAD
HINSDALE/WESTERN SPRINGS, ILLINOIS

PREPARED BY: ENGineering
28100 TORCH PARKWAY, SUITE 400
WARRENVILLE, IL 60555
TEL. 630-353-4000
FAX 630-353-7777
WWW.ENGINEERING.COM

COUNTY: COOK	TOWNSHIP: LYONS		1/4 SECTION: 181
TOWN: HINSDALE/WESTERN SPRINGS	TOWN: 138N	RANGE: 12E	3PM
REGION: SOUTH CENTRAL CONST.	CONTRACTOR: R. SEERMON	CHECKED/REVIEWED BY:	DATE: 04-10-19
WORK ORDER NO.: 135805/335805/435805		DRAWN BY: C. DIAZ	DATE: 04-10-19
MAIN JOB NO.: SC18211	MODEL/ID NO.:	CHECKED BY: L. SOJA	DATE: 10-18-19
EIC PROJECT NO.: 1900001.11		REVISION: D. SMITH	DATE: 10-25-19
SCALE: 1"=20'		APPROVED BY: M. RENESHOWICZ	DATE: 10-31-19
DATE IN SERVICE:		DRAWING FILE NO.: WC221810-	SHEET 6 OF 10

(10) **INSTALL**
(1) GCS 721.03* (HI VOL TEE CONN 2" PE HDR/LATERAL BF)
*INCL: (1) 2" TEE HI VOL ST IPS PE CF
(1) 4" ANCI SHEAR SLEEVE PE PIPE PER GCS 702
(1) GCS 714.5 (WIRE TO WIRE CONNECTION)

(11) **INSTALL**
(305') 2"ø PIPE IPS PE SDR 11.0
(TEST SECTION "A")
(80ø SYSTEM)



SYMBOL LEGEND

- BORE PIT W/ SILT FENCE
- APPROXIMATE LOCATION OF STOCKPILE W/ SILT FENCE

WORK ORDER QUANTITIES THIS SHEET

PIPE INSTALLATION THIS SHEET	ESTIMATED	ACTUAL
2"ø PIPE IPS PE SDR 11.0	305'	
PIPE REMOVEMENT THIS SHEET	**ESTIMATED**	**ACTUAL**
NONE	0'	
PIPE BORING THIS SHEET	**ESTIMATED**	**ACTUAL**
2" BORING	305'	
TRENCH BACKFILL THIS SHEET	5 C.Y.	
ASPHALT & CONCRETE BREAKS THIS SHEET	0 SQ. FT.	
SERVICE TRANSFERS THIS SHEET	0	

CONSTRUCTION NOTES:

1. INSTALL PIPELINE MARKERS PER GCS 248. SEE SPECIFICATION FOR ALL REQUIREMENTS. FOR CLASS 1 & 2 LOCATIONS, MARKERS ARE REQUIRED OVER EACH BURIED MAIN AT EACH CROSSING OF A PUBLIC ROAD. IN ADDITION, PIPELINE MARKERS ARE REQUIRED AT ALL RAILROAD AND WATERWAY CROSSINGS.
2. LOCATION AND SIZE OF STOCKPILES AND SILT FENCE AROUND STOCKPILES ARE APPROXIMATE. CONTRACTOR TO DETERMINE EXACT LOCATION AND SIZE AT THE TIME OF CONSTRUCTION.
3. ALL RIGHT-OF-WAY AND EASEMENTS TO BE SURVEYED AND STAKED PRIOR TO CONSTRUCTION.
4. STATIONING ALONG FRONTAGE ROAD PLACED ARBITRARILY TO FACILITATE THE INSTALLATION OF MAIN.

ENVIRONMENTAL NOTES:

1. CONTRACTOR TO DETERMINE LOCATION OF STAGING AREAS WITH STABILIZED CONSTRUCTION ENTRANCES, AT THE TIME OF CONSTRUCTION.
2. ALL BORE PITS AND STOCKPILES TO BE ENCLOSED BY A SINGLE ROW OF SILT FENCE.
3. NEAREST BASE FLOOD ELEVATION (BFE) = 640 FEET.

PREPARED FOR
Nicor Gas
PUBLIC IMPROVEMENT
TRI-STATE TOLLWAY (I-294), BIRCH LANE
AND FRONTAGE ROAD
HINSDALE/WESTERN SPRINGS, ILLINOIS

PREPARED BY:
ENgineering
28100 TORCH PARKWAY, SUITE 400
WARRENVILLE, IL 60555
TEL 630-353-6000
FAX 630-353-7777
WWW.ENGINEERING.COM

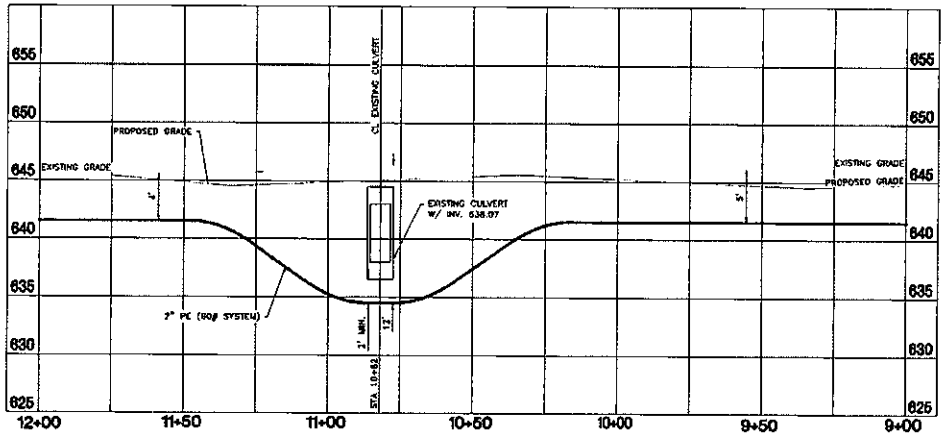
REV.	DESCRIPTION	BY	CHK'D BY	APP'D. BY	DATE
1	UPDATED ISTHA CAD FILES	EC	LS	MB	08/15/19

REVISION 1

APPROVED FOR CONSTRUCTION

N

COUNTY: COOK	TOWNSHIP: LYONS		1/4 SECTION: 151
TOWN: HINSDALE/ WESTERN SPRINGS	TWP: 138N	RANGE: 12E	3PM
REGION: SOUTH CENTRAL COMST.	DEPARTMENT:	ENGINEERING: R. SECTMONN	DATE: 04-10-19
WORK ORDER NO.: 135805/335005/435805		DRAWN BY: G. DIAZ	DATE: 04-10-19
NICOR JOB NO.: SC16211	NICOR WO NO.:	DESIGN BY: L. SOJA	DATE: 10-16-19
GIS FOLDER NO.: 1900001.11		CHECKED BY: D. SMITH	DATE: 10.25.19
SCALE: 1"=20'		APPROVED BY: M. BENESIEWICZ	DATE: 10-31-19
DATE IN SERVICE:		DRAWING FILE NO.: WC221610-	SHEET 7 OF 10



FRONTAGE ROAD CULVERT CROSS SECTION - LOOKING EAST

HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=5'

SEE SHEET 6 FOR PLAN VIEW

APPROVED FOR CONSTRUCTION

REV	DESCRIPTION	BY	CHK'D BY	APP'D. BY	DATE
1	NO CHANGES THIS SHEET	EC	LS	MB	06/15/21

REVISION 1

PREPARED FOR: Nicor Gas

PUBLIC IMPROVEMENT
CULVERT CROSS SECTION
HINSDALE/WESTERN SPRINGS, ILLINOIS

PREPARED BY: ENGineering
28100 TORCH PARKWAY, SUITE 400
WARRENVILLE, IL 60555
TEL 630-393-4000
FAX 630-393-7777
WWW.ENGINEERING.COM

COUNTY: COOK	TOWNSHIP: LYONS		1/4 SECTION: 181 182 183 184
TOWN: HINSDALE/WESTERN SPRINGS	TOWNSHIP: 38N	RANGE: 12E 3PM	
NICOR DEPARTMENT: SOUTH CENTRAL CONST.		DRAWN/DESIGNED BY: H. SEERMON	DATE: 04-10-19
NICOR ORDER NO.: 435605/335605/435605		DRAWN BY: G. DIAZ	DATE: 04-10-19
NICOR JOB NO.: SC18211	WORKED NO.:	CHECKED BY: L. SOJA	DATE: 10-18-19
ENG PROJECT NO.: 19000001.11		CORRECTED: D. SMITH	DATE: 10-23-19
SCALE: AS NOTED		APPROVED BY: M. BENES/CWCZ	DATE: 10-31-19
DATE IN SERVICE:		DRAWING FILE NO.: WC22181D-	SHEET 8 OF 10

Cook County Erosion and Sediment Control Notes

1. Any trenches, holes, or other excavations required for utility installation shall be protected at the end of each workday.

2. Development sites shall incorporate appropriate erosion control practices that reduce the potential for wind erosion.

3. Erosion control practices shall be functional before disturbances are made to the site.

4. Straw bales shall not be used as sediment control practices.

5. Perimeter sediment control practices shall be installed and functioning prior to soil disturbance.

6. Disturbed areas draining less than one acre shall be protected by silt fence or equivalent.

7. Disturbed areas draining more than one acre shall be protected by a silt fence and a sediment basin or equivalent, which shall be:

   a. Sized to intercept the 2-year, 24 hour runoff volume from the tributary drainage area; and

   b. Located at the lowest point of the disturbance

8. All storm drain inlets draining disturbed areas shall be protected with an appropriate sediment control practice.

9. A stabilized construction entrance/exit shall be provided to prevent soil from being tracked or deposited onto public or private roadways. Any soil reaching a public or private roadway shall be removed immediately and transported to a controlled sediment disposal area.

10. If a soil stockpile is created on the site, perimeter sediment controls shall be placed around the stockpile immediately.

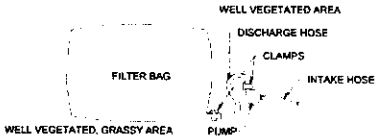
11. Construction dewatering operations shall be designed and operated so that water discharged from a site will meet State of Illinois water quality standards, as set forth in Title 35, Subtitle C, Chapter 1, Part 302, Subpart B, of the Illinois Administrative Code.

12. Flood protection areas shall be protected with a minimum of a double-row of silt fence or equivalent measure

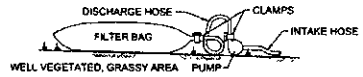
13. Soil stockpiles or other construction materials shall not be located within flood protection areas or their buffers

14. All temporary erosion and sediment control practices shall be removed within 30 days after permanent stabilization is achieved.

DEWATERING FILTER BAG



PLAN VIEW



ELEVATION VIEW

FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL, SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "J" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS.

A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES MUST BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED.

BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE FLOW PATH SHALL BE PROVIDED. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5%.

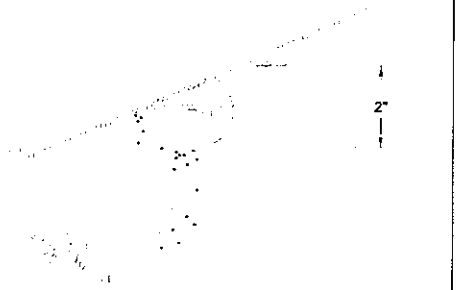
THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED.

THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHOULD BE FLOATING AND SCREENED.

FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

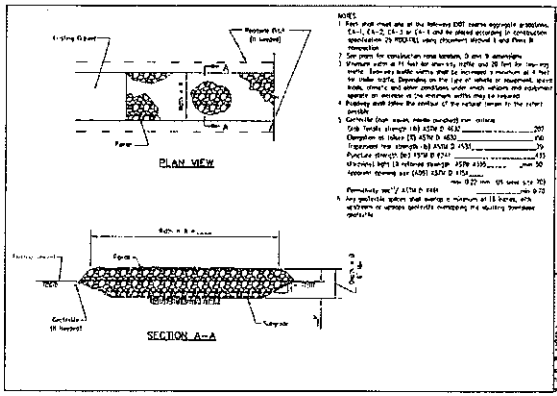
REASON:
ROOTS WITH A SHARPLY CUT END WILL QUICKLY PRODUCE A FLUSH OF NEW ROOTS, HELPING THE TREE TO RECOVER FROM ITS INJURY. A CRUSHED OR TORN ROOT LEADS TO DECAY AND FEW NEW ROOTS.

PROCEDURE:
WHEN TUNNELING OR AVOIDING ROOTS IS NOT POSSIBLE, TRENCH CAREFULLY BY HAND OR MACHINE NEAR TREES, SAWING ROOTS OVER 2" IN DIAMETER. MAKE THE CUT FLUSH WITH THE SIDE OF THE TRENCH CLOSEST TO THE TREE. NO NEED TO PAINT OR TREAT THE ENDS.



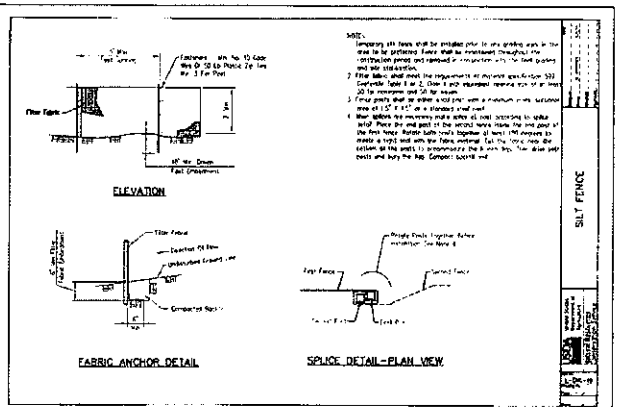
WHEN ROOTS 2" OR LARGER ARE ACCIDENTALLY BROKEN, DIG OUT ENOUGH OF THE TRENCH SIDE TO SAW THROUGH AN UNDAMAGED PORTION OF THE ROOT

ROOT PRUNING



NOTES
1. Fabric shall meet one of the following DOT marine aggregate gradations, CA-11, CA-13 or CA-14 and be placed according to construction specification 25 PROPERLY using equipment approved by the Engineer.
2. See plans for construction zone location, D and S dimensions.
3. Minimum width of 15 feet for one-way traffic and 20 feet for two-way traffic. Entrance/exit width shall be increased a minimum of 5 feet for trailer traffic. Depending on the type of vehicle or equipment, special loads, climate and other conditions under which vehicles and equipment operate, an increase of the minimum width may be required.
4. Roadway shall follow the contour of the natural terrain to the extent possible.
5. Geotextile fabric meets manufacturer's minimum average roll values (MARV) unless specified otherwise.
   Grab Tensile strength (lb) ASTM D 4632 200
   Elongation at failure (%) ASTM D 4632 100
   Trapezoid tear strength (lb) ASTM D 4533 75
   Puncture strength (lb) ASTM D 4833 125
   Mullen burst rating (lb minimum strength) ASTM D3786 300
   Apparent opening size (AOS) ASTM D 4751 ..... max 50 (0.297 mm US sieve size #50)
   Permeability sec⁻¹ ASTM D 4491 ..... min 0.02
6. Any geotextile spikes shall overlap a minimum of 18 inches, with spikes on opposite sides of the overlapping the resulting downslope geotextile.

CONSTRUCTION ROAD STABILIZATION



NOTES:
1. Temporary silt fence shall be installed prior to any grading work in the area to be protected. Fence shall be maintained throughout the construction period and removed if conditions allow the fence protection and site stabilization.
2. Filter fabric shall meet the requirements of material specification 592 Geotextile Type II or 2. Class 1 and equivalent material size of at least 30 for minimum and 50 for maximum.
3. Fence posts shall be either a steel post with a minimum cross sectional area of 1.5" x 1.5" or a standard steel post.
4. Wire splices for continuous runs where all rolls cannot be spliced in single roll. Place the end post at the second fence where the end post of the first fence. Rotate both rolls together at least 180 degrees to make a tight roll with the fabric material. Tie the fence into the bottom of the posts in accordance the 5 wire tie. The drive post posts and tuck the tab. Compact soil in end.

SILT FENCE

REVISION 1

PREPARED FOR: Nicor Gas

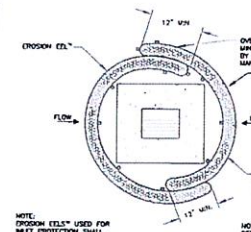
PUBLIC IMPROVEMENT EROSION CONTROL AND ENVIRONMENTAL DETAILS (1 OF 2) HINSDALE/WESTERN SPRINGS, ILLINOIS

PREPARED BY: DEC Engineering
28100 TORCH PARKWAY, SUITE 400
WARRENVILLE, IL 60555
TEL: 630-353-4000
FAX: 630-353-7777
www.DECENGINEERING.COM

APPROVED FOR CONSTRUCTION

REV.	DESCRIPTION	BY	CHK'D BY	APP'D. BY	DATE
1	REARRANGED SHEETS	EC	LS	MB	06/15/21

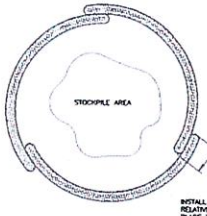
COUNTY: COOK	TOWNSHIP: LYONS		1/4 SECTION
TOWN: HINSDALE/ WESTERN SPRINGS	TOWN: 38N	RANGE: 12E	3PM: 181 182 183 184
REGION: SOUTH CENTRAL CONST.	DEPARTMENT:	ENGINEER/DESIGNER: R. SEERMAN	DATE: 04-10-19
WORK ORDER NO.: 135805/135805/135805		DRAWN BY: G. DIAZ	DATE: 04-10-19
NICOR JOB NO.: SC15213	NICOR/CO NO.:	CHECKED BY: L. SOJA	DATE: 10-16-19
ENG PROJECT NO.: 19000801.11		CONCURR: D. SMITH	DATE: 10-25-19
SCALE: NOT TO SCALE		APPROVED BY: M. BENESHEWICZ	DATE: 10-31-19
SHEET 9 OF 10		DRAWING FILE NO.: WC221810-	



NOTE:
EROSION EELS™ USED FOR INLET PROTECTION SHALL CONSIST OF EITHER MIXTURE SPECIFICATION 1.0 OR 1.1, PER ENGINEER'S RECOMMENDATIONS.

NOTE:
PERIODIC MAINTENANCE SHALL INCLUDE CLEANING EEL SURFACE WITH HIGH PRESSURE WASH OR BRUSHING SURFACE WITH BROOM.

DETAIL E1-B: INLET SEDIMENT TRAP
N.T.S.

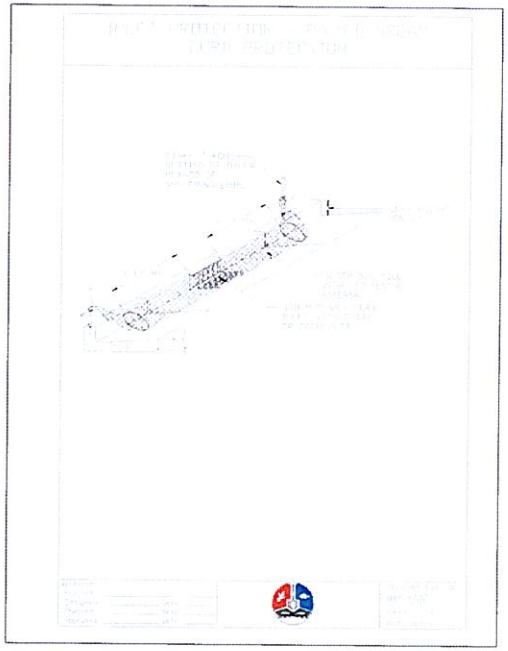


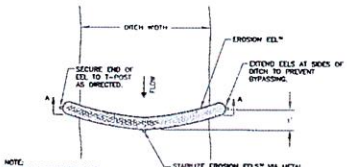
INSTALL STOCKPILE ON RELATIVELY FLAT TERRAIN. PLACE THREE EROSION EELS™ IN CIRCULAR PATTERN AS SHOWN WITH OVERLAPS. PROVIDE MORE EELS TO BROADEN CIRCUMFERENCE FOR LARGER STOCKPILES, IF DESIRED.

DETAIL E3-I: PLAN VIEW –
TEMPORARY STOCKPILE AREAS
N.T.S.

GENERAL NOTES:

1. EROSION EELS™ USED IN PERIMETER CONTROL APPLICATIONS SHALL HAVE A SPECIFICATION MIXTURE 1.1 OR 1.2
   - MIXTURE SPECIFICATION 1.1: A FILTER MIXTURE COMPRISED OF 100% SHREDDED RUBBER AND 50% WOOD CHIP PARTICLES BY VOLUME. THE SHREDDED RUBBER SHALL BE RANDOM AND PRETENSED TO MEASURE 40MM. IF NOT ALL METAL COMPONENTS. THE RUBBER SHALL BE DERIVED FROM RECYCLED TIRES AND SHALL BE SHREDDED TO PRODUCE A MAXIMUM PARTICLE SIZE OF +/- 1/4 INCH. THE WOOD CHIPS SHALL BE PRODUCED FROM HARDWOOD TREES AND SHALL CONFORM TO HARDWOOD CERTIFICATION SPECIFICATION MP 9-03.
   - MIXTURE SPECIFICATION 1.2: A FILTER MIXTURE COMPRISED OF 1/3 SHREDDED RUBBER, 1/3 WOOD CHIPS, AND 1/3 RECYCLED SYNTHETIC FIBERS BY VOLUME. THE SHREDDED RUBBER SHALL BE RANDOM AND PRETENSED TO MEASURE 40MM. IF NOT ALL METAL COMPONENTS. THE RUBBER SHALL BE DERIVED FROM RECYCLED TIRES AND SHALL BE SHREDDED TO PRODUCE A MAXIMUM PARTICLE SIZE OF +/- 1/4 INCH. THE WOOD CHIPS SHALL BE PRODUCED FROM HARDWOOD TREES AND SHALL CONFORM TO HARDWOOD CERTIFICATION SPECIFICATION MP 9-03. THE SYNTHETIC FIBERS SHALL BE DERIVED FROM RECYCLED MANUFACTURED MATERIALS, SUCH AS, BUT NOT LIMITED TO, PVC, CORDUROY SPRAY CURRETT, PVC CHIPS, AND PVC FIBER MATERIALS.
2. EROSION EELS™ SHALL BE MANUFACTURED FROM A MESH ECOTEXTILE CONTAINING WITH INTERNAL FILTER MATERIALS SUCH AS: 100% SHREDDED RUBBER (MIXTURE SPECIFICATION 1.0), 50% SHREDDED RUBBER/50% WOOD-CERTIFIED WOOD CHIPS (MIXTURE SPECIFICATION 1.1), OR 1/3 SHREDDED RUBBER/1/3 WOOD-CERTIFIED WOOD CHIPS/1/3 RECYCLED SYNTHETIC FIBERS (MIXTURE SPECIFICATION 1.2).
3. LENGTHS OF EROSION EELS™ SHALL BE EITHER A NOMINAL +/-10 FT. OR +/- 15 FT. NOMINAL DIAMETER SHALL BE +/-9.5 INCHES.
4. EROSION EELS™ CAN BE PLACED AT THE TOP, ON THE FACE, OR AT THE TOE OF SLOPES TO INTERCEPT RUNOFF, REDUCE FLOW VELOCITY, REDUCE THE RUNOFF TO SHEET FLOW AND PROVIDE REMOVAL OF SEDIMENT FROM THE RUNOFF.
5. EROSION EELS™ SHALL BE INSTALLED ALONG THE GROUND CONTOUR, AT THE TOE OF SLOPES, AT AN ANGLE TO THE CONTOUR TO DIRECT FLOW AS SUGGESTED BY THE DESIGNER. WHEN INSTALLED IN A DITCH AS A CHECK DAM TO HELP REDUCE SUSPENDED SOLIDS LOADING AND REDUCE SEDIMENTATION AT A DRAINAGE FILTER FOR DISTURBED AREA.
6. NO TRENCHING IS REQUIRED FOR INSTALLATION OF EROSION EELS™.
7. PREPARE BED FOR EEL INSTALLATION BY REMOVING ANY LARGE DEBRIS INCLUDING ROCKS, SOIL CLODS, AND WOODY VEGETATION. EROSION EELS™ CAN ALSO BE PLACED OVER FRAGILE SURFACES INCLUDING CONCRETE AND ASPHALT WITH NO SURFACE PREPARATION REQUIRED.
8. RAKE BED AREA WITH A HAND RAKE OR BY GRAD HARROW.
9. DO NOT PLACE EEL DIRECTLY OVER RILL AND GULLIES LAYS. AREA HAS BEEN HAND-EXCAVATED AND RAKED TO PROVIDE A LEVEL BEDDING SURFACE. EEL SUPPORTS SHALL BE UNIFORMLY COMPACTED FOR MAXIMUM SEATING OF EELS IN PLACE.
10. FOR LONGITUDINAL WRITHE EELS BELL BE PLACED IN CONCENTRATED FLOWS (SUCH AS CHECK DAMS, INLET PROTECTION) AND FOR PERIMETER CONTROL AT PRIMARY DISCHARGE LOCATIONS. BED THE EELS IN A JUTE MESH CRADLE PER THE DETAILED DRAWINGS.
11. FOR DITCH APPLICATIONS, THE MAXIMUM DRAINAGE AREA SHALL BE 10 ACRES.
12. IF MORE THAN ONE EROSION EELS™ IS PLACED IN A ROW, THE EELS SHALL BE OVERLAPPED A MINIMUM OF 12 INCHES TO PREVENT FLOW AND SEDIMENT FROM PASSING THROUGH THE FIELD JOINT. COMPRESS THE TWO EELS OF THE OVERLAP TIGHTLY TOGETHER EITHER BY HAND OR MANUFACTURER APPROVED MECHANIZED MEANS.
13. WHEN USED IN DITCHES AS A CHECK DAM, EROSION EELS™ SHALL BE INSTALLED PER MANUFACTURER'S DETAILS.
14. FOR CHECK DAM APPLICATIONS, EROSION EELS™ SHALL BE PLACED PERPENDICULAR TO THE FLOW OF THE WATER. EROSION EELS™ SHALL CONTINUE UP THE BANK BLOWES A MINIMUM OF 1 FOOT ABOVE THE DESIGN FLOW DEPTH.
15. EROSION EELS™ SHALL REMAIN IN PLACE UNTIL FINAL ESTABLISHED VEGETATION HAS COMPLETED. SEDIMENTS OF LAYS THE STORAGE CAPACITY/FUNCTIONAL LIFE OF THE EEL HAS BEEN COMPLETED (REQUIRING REPLACEMENT WITH NEW EELS).
16. MACHINERY PORTS FOR CHECK DAM APPLICATIONS SHALL HAVE A MINIMUM WEIGHT OF 1.25 LB/FT STEEL T-POSTS (5 TO 7 FT LENGTHS) OR 1.33 LB/FT STEEL T-POSTS (5 TO 7 FT LENGTHS) OR EQUIVALENT. FOR CHECK DAM APPLICATIONS, THE EELS SHALL BE PRETENSIONED AGAINST THE POSTS. FOR STEEL APPLICATIONS, POSTS SHOULD BE EQUIPPED WITH A METAL SAFETY CAP. SEE DETAIL PLANS FOR DETAILS ON THIS SHEET.
17. PLACE T-POSTS THROUGH HANDLE OF RAKE. DO NOT DRIVE POSTS THROUGH EROSION EELS™. T-POSTS ARE TO BE EMBEDDED A MINIMUM OF 3 FT INTO GROUND.

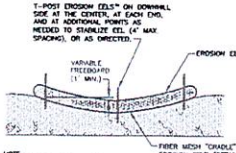




NOTE:
EROSION EELS™ USED FOR CHECK DAMS SHALL USE MIXTURE SPECIFICATION 1.0.

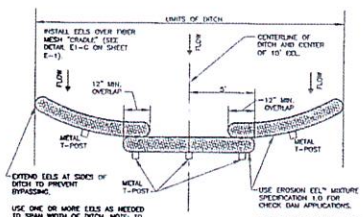
NOTE:
APPLICABLE TO SMALL WIDTH DITCHES WITH TOTAL WIDTH THAT REQUIRES ONLY ONE 10' EEL TO SPAN.

DETAIL E2-A: PLAN VIEW –
SMALL DITCH CHECKS SINGLE EEL (NO STACKING)
N.T.S.



NOTE:
APPLICABLE TO SMALL WIDTH DITCHES WITH TOTAL WIDTH THAT REQUIRES ONLY ONE 10' EEL TO SPAN.

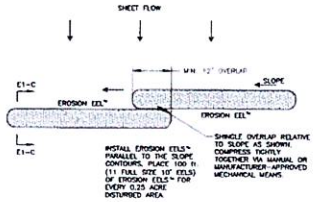
DETAIL E2-B: SECTION – SMALL DITCH CHECKS
N.T.S.



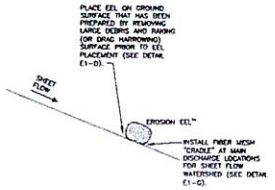
USE ONE OR MORE EELS AS NEEDED TO SPAN WIDTH OF DITCH. NOTE: TO MAXIMIZE FLOW, ARRANGE EELS IN A CURVED, ANGLED PATTERN TO MAXIMIZE EXPOSED SURFACE AREA TO FLOW.

NOTE:
APPLICABLE TO LARGE WIDTH DITCHES WHERE ONE EEL IS NOT SUFFICIENT TO SPAN LENGTH.

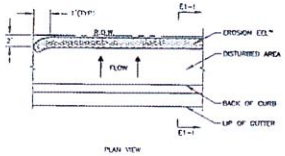
DETAIL E2-C: PLAN VIEW –
CHECK DAM ARRANGEMENT FOR LARGER WIDTH DITCHES
N.T.S.



DETAIL E1-D: INTERCEPTING SHEET FLOW
PERPENDICULAR TO FLOW PATH – PLAN VIEW



DETAIL E1-E: INTERCEPTING SHEET FLOW
PERPENDICULAR TO FLOW PATH – PLAN VIEW



PLAN VIEW

DETAIL E1-H: EROSION EEL™
PLACED AT EDGE OF ROADWAY RIGHT-OF-WAY
N.T.S.

REVISION 1

PREPARED FOR:
Nicor Gas
PUBLIC IMPROVEMENT
ENVIRONMENTAL DETAILS (2 OF 2)
HINSDALE/WESTERN SPRINGS, ILLINOIS

PREPARED BY:
ENGineering
28100 TORCH PARKWAY, SUITE 400
WARRENVILLE, IL 60555
TEL. 630-353-4000
FAX 630-353-7777
WWW.ENGINEERING.COM

APPROVED FOR CONSTRUCTION

REV.	DESCRIPTION	BY	CHK'D BY	APP'D. BY	DATE
1	REARRANGED SHEETS	EC	LS	MB	08/15/21

COUNTY: COOK	TOWNSHIP: LYONS		1/4 SECTION: 181 182 183 184
TOWN: WESTERN SPRINGS / HINSDALE	RANGE: 12E 3PM	TIER: T38N	
REGION	DEPARTMENT: SOUTH CENTRAL CONST.	ENGINEER/DESIGNER: R. SEEBMON	DATE: 04-10-19
WORK ORDER NO.: 135605/335605/435605		DRAWN BY: G. DIAZ	DATE: 04-10-19
NICOR JOB NO.: SC18211	INSIDE/OUT NO.	CHECKED BY: L. SOJA	DATE: 10-16-19
ENG PROJECT NO.: 1900001.11		CONFIRMED BY: D. SMITH	DATE: 10-25-19
SCALE: NOT TO SCALE		APPROVED BY: M. BENESIEWICZ	DATE: 10-31-19
DATE IN SERVICE		DRAWING FILE NO.: WC221810-	SHEET 10 OF 10