PROPOSED BANK DEVELOPME 630 W. NORTHWEST HIGHWAY ARLINGTON HEIGHTS, IL 60004

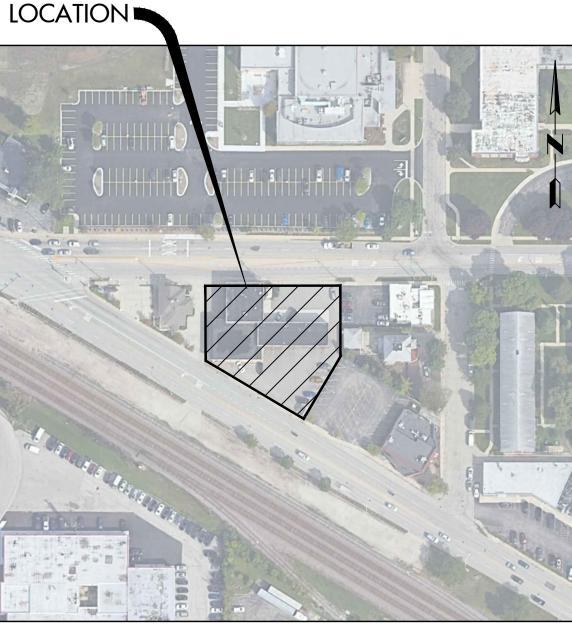
N.T.S.

4

		LEGENI	D
	EXISTING	PROPOSED	DESCRIPTION
	X	* **	LIGHT STANDARD/DOUBLE LIGHT STANDARD
		•	WATER VALVE VAULT
		X	WATER VALVE BOX
	A	A	FIRE HYDRANT
	8	⊗ _₩	BUFFALO BOX
	۲	۲	SANITARY MANHOLE
	\triangleright		FLARED END SECTION
В			STORM INLET
	0		STORM CATCH BASIN
	\odot	۲	STORM MANHOLE
	0	•	CLEANOUT
	>		STORM SEWER PIPE
	((((SANITARY SEWER PIPE
	W	w	WATER MAIN PIPE
	FM →	► FM-►	FORCEMAIN PIPE
			STORM SEWER SERVICE
			SANITARY SEWER SERVICE
		wwwww	WATER MAIN SERVICE
	615.90	615.90	SANITARY RIM ELEVATION SANITARY INVERT ELEVATION
	616.50	616.50 28+00	WATER GRADE RING ELEVATION WATER STATION LOCATION
	615.90 606.20	615.90 606.20	STORM RIM ELEVATION STORM INVERT ELEVATION
			PROPOSED SANITARY STRUCTURE LABEL
с		FH-XX	PROPOSED WATER STRUCTURE LABEL
		🛞	PROPOSED STORM STRUCTURE LABEL
			PROPOSED RETAINING WALL
	====		CURB AND GUTTER
			DEPRESSED CURB AND GUTTER
			REVERSE CURB AND GUTTER
			SIDEWALK
		~~~ <b>&gt;</b>	SWALE FLOW ARROW
			DRAINAGE ARROW
			OVERLAND FLOW
		764	1 FOOT CONTOURS
			ACCESSIBLE CURB RAMP



# PROJECT



	ABBREVIATIONS											
ADJ	ADJUST	E	ELECTRIC	мн	STORM MANHOLE	RT	RIGHT					
AGG.	AGGREGATE GRAVEL	E-E	EDGE TO EDGE	MIN.	MINIMUM	SAN	SANITARY SEWER					
B.A.M.	BIT. AGG. MIXTURE	ELEV.	ELEVATION	NWL	NORMAL WATER LEVEL	SF	SQUARE FOOT					
B-B	ВАСК ТО ВАСК	E/P	EDGE OF PAVEMENT	OLID	OPEN LID	SHLD.	SHOULDER					
B/P	BOTTOM OF PIPE	EX.	EXISTING	P.E.	PRIVATE ENTRANCE	SL	STREET LIGHT					
B/WALL	GROUND AT BOTTOM OF WALL	F.E.	FIELD ENTRANCE	PERF.	PERFORATED	SMH	SANITARY MANHOLE					
B.B.	BUFFALO BOX	F-F	FACE TO FACE	PC	POINT OF CURVE	ST	STORM SEWER					
BIT.	BITUMINOUS CONCRETE	FF	FINISHED FLOOR	P.C.C.	PORTLAND CEMENT CONCRETE	STA.	STATION					
BM	BENCHMARK	FES	FLARED END SECTION	PCC	POINT OF COMPOUND CURVE	STD	STANDARD					
B.O.	BY OTHERS	FH	FIRE HYDRANT	PGL	PROFILE GRADE LINE	SW	SIDEWALK					
C.E.	COMMERCIAL ENTRANCE	F/L	FLOW LINE	PI	POINT OF INTERSECTION	SY	SQUARE YARDS					
СВ	CATCH BASIN	FM	FORCE MAIN	PL	PROPERTY LINE	TBR	TO BE REMOVED					
CL	CENTERLINE	G	GROUND	PP	POWER POLE	Т	TELEPHONE					
CLID	CLOSED LID	GAS	GAS	PROP.	PROPOSED	T-A	TYPE A					
CMP	CORRUGATED METAL PIPE	G/F	GRADE AT FOUNDATION	PT	POINT OF TANGENCY	T/C	TOP OF CURB					
CNTRL	CONTROL	GW	GUY WIRE	PVC	POLYVINYL CHLORIDE PIPE	T/F	TOP OF FOUNDATION					
C.O.	CLEAN OUT	H.C.	HANDICAP	P.V.C.	POINT OF VERTICAL CURVE	T/P	TOP OF PIPE					
CONC.	CONCRETE	HDWL	HEADWALL	PVI	POINT OF VERTICAL INTERSECTION	T/W	TOP OF WALK					
CY	CUBIC YARD	HH	HANDHOLE	PVT	POINT OF VERTICAL TANGENCY	T/WALL	TOP OF WALL					
D	DITCH	HWL	HIGH WATER LEVEL	Р	PAVEMENT	TEMP	TEMPORARY					
DIA.	DIAMETER	INL	INLET	R	RADIUS	TRANS	TRANSFORMER					
DIP	DUCTILE IRON PIPE	INV.	INVERT	R.O.W.	RIGHT-OF-WAY	V.B.	VALVE BOX					
DIWM	DUCTILE IRON WATER MAIN	IP	IRON PIPE	RCP	REINFORCED CONCRETE PIPE	V.V.	VALVE VAULT					
DT	DRAIN TILE	MAX.	MAXIMUM	REM	REMOVAL	WL	WATER LEVEL					
D.S.	DOWN SPOUT	мв	MAILBOX	RR	RAILROAD	WM	WATER MAIN					

2



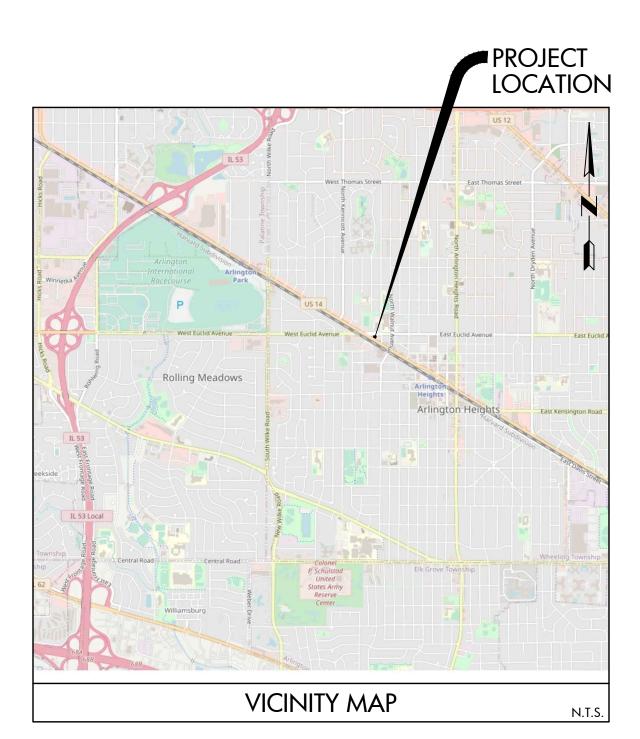
NOTE: THE LOCATION, ELEVATION, SIZE, AND TYPES OF ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION, ELEVATION, SIZE AND TYPES OF ALL EXISTING UTILITIES PRIOR TO COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

48 HOURS (2 working days) BEFORE YOU DIG

3

# FINAL SITE DEVELOPMENT PLANS

AERIAL MAP



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	INDEX OF DRAWINGS						
SHEET NO.	DRAWING TITLE						
C1.0	CIVIL ENGINEERING COVER SHEET						
C2.0	EXISTING CONDITIONS (BY OTHERS)						
C2.1	SITE DEMOLITION PLAN						
C3.0	SITE DIMENSIONAL AND PAVING PLAN						
C4.0	SITE UTILITY PLAN						
C5.0	SITE GRADING AND EROSION CONTROL PLAN						
C6.0	SOIL EROSION AND SEDIMENT CONTROL DETAILS						
C6.1	SITE CONSTRUCTION DETAILS - 1						
C6.2	SITE CONSTRUCTION DETAILS - 2						
C6.3	SITE CONSTRUCTION DETAILS - 3						
C6.4	SITE CONSTRUCTION DETAILS - 4						
C6.5	SITE CONSTRUCTION DETAILS - 5						
C7.0	GENERAL CONDITIONS AND DETAILED SPECIFICATIONS						
PH1.0	SITE PHOTOMETRICS PLAN						
PH2.0	SITE PHOTOMETRICS FIXTURE AND LIGHT POLE DETAILS						

PMENT CONSULTANTS		3343 N. NEVA AVENUE 5 01-31-22 REVISED PER VILLAGE REVIEW	CHICAGO, ILLINOIS 60634 4 12-27-21 ADDED BICYCLE PARKING Ph- (312) 637-9570	Fax: (312) 637-9454 3 12-16-21 REVISED PER VILLAGE REVIEW	E-mail: info@civworks.com 2 12-10-21 REVISED PER VILLAGE REVIEW	ILLINOIS PROFESSIONAL DESIGN FRAM NO. 184-005714 1 10-07-21 ISSUED FOR PERMIT
CIVIL ENGINEERS - PLANNERS - DEVELOPMENT						
DR. FIR	awı St IS Ale:				( 1-20 N.T	

PROJ. NUMBER: 21022

# BENCHMARKS

- BENCHMARK NO. 401 SOUTHWEST FLANGE BOLT ON FIRE HYDRANT LOCATED AT THE NORTHEAST CORNER OF NORTH RIDGE AVENUE AND WEST EUCLID AVENUE ELEVATION = 718.00' NAVD88
- BENCHMARK NO. 402
- TAG BOLT ON THE 2ND FIRE HYDRANT WEST OF THE CENTERLINE OF NORTH RIDGE AVENUE ON THE NORTH SIDE OF WEST EUCLID AVENUE ELEVATION = 717.15' NAVD88

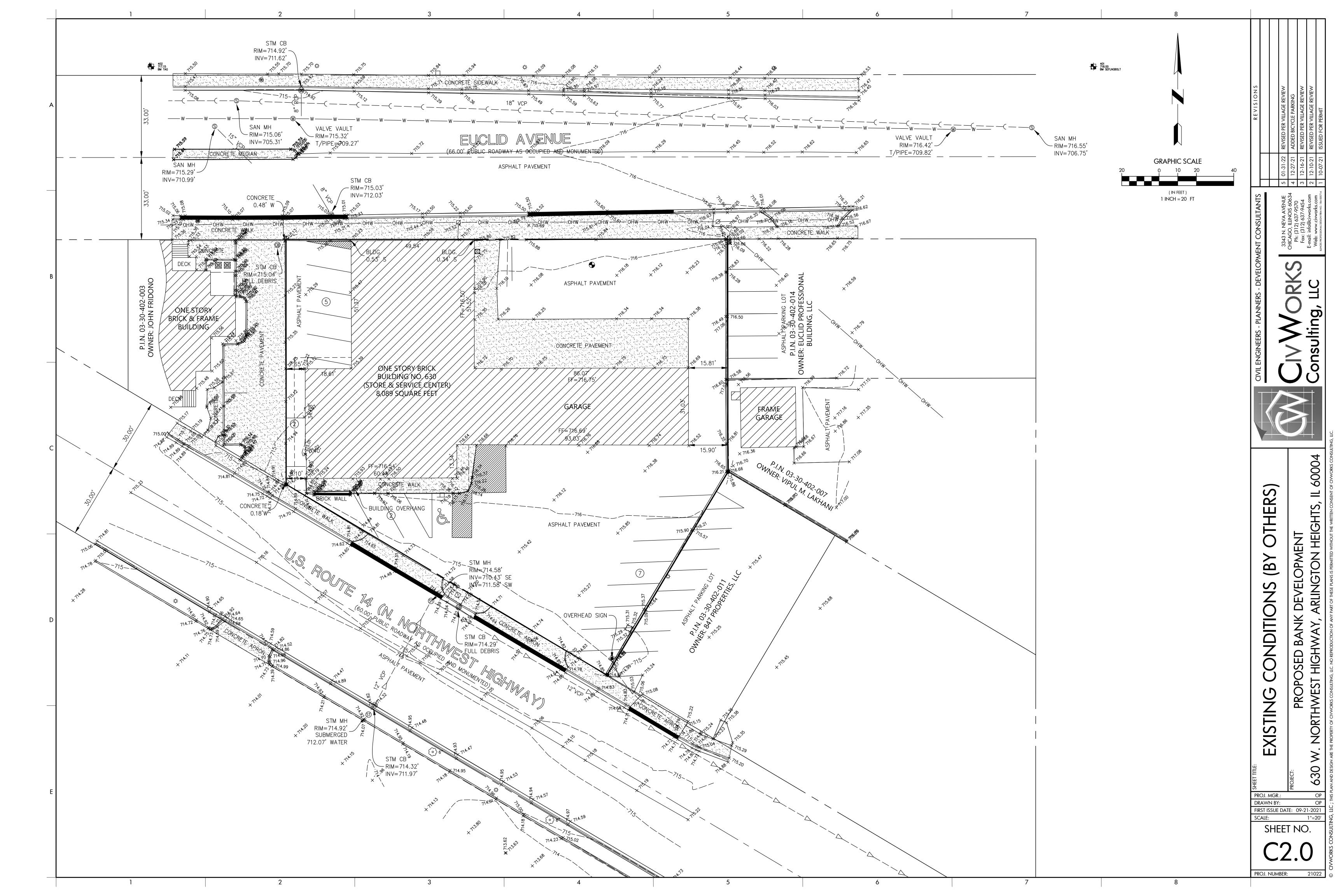


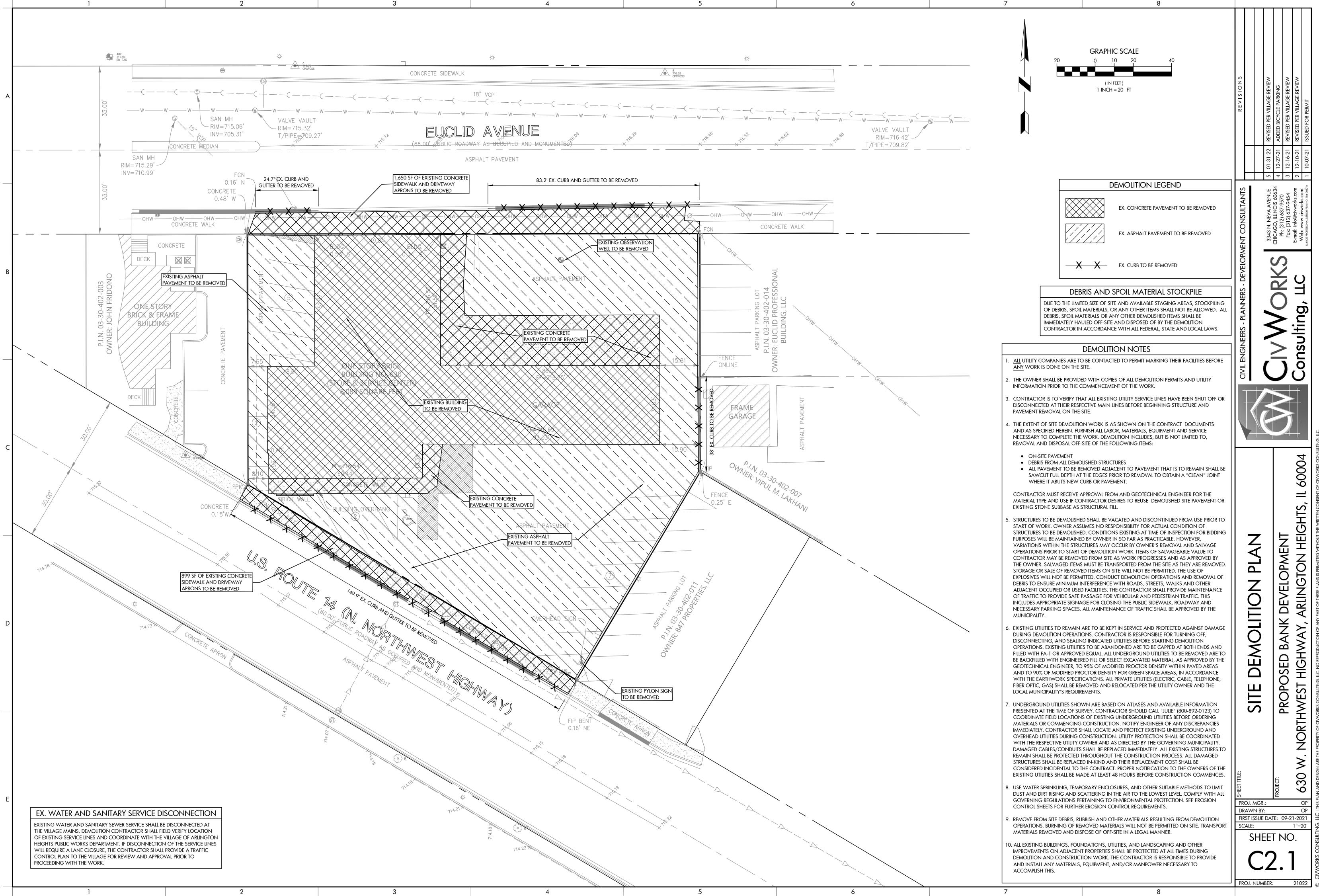
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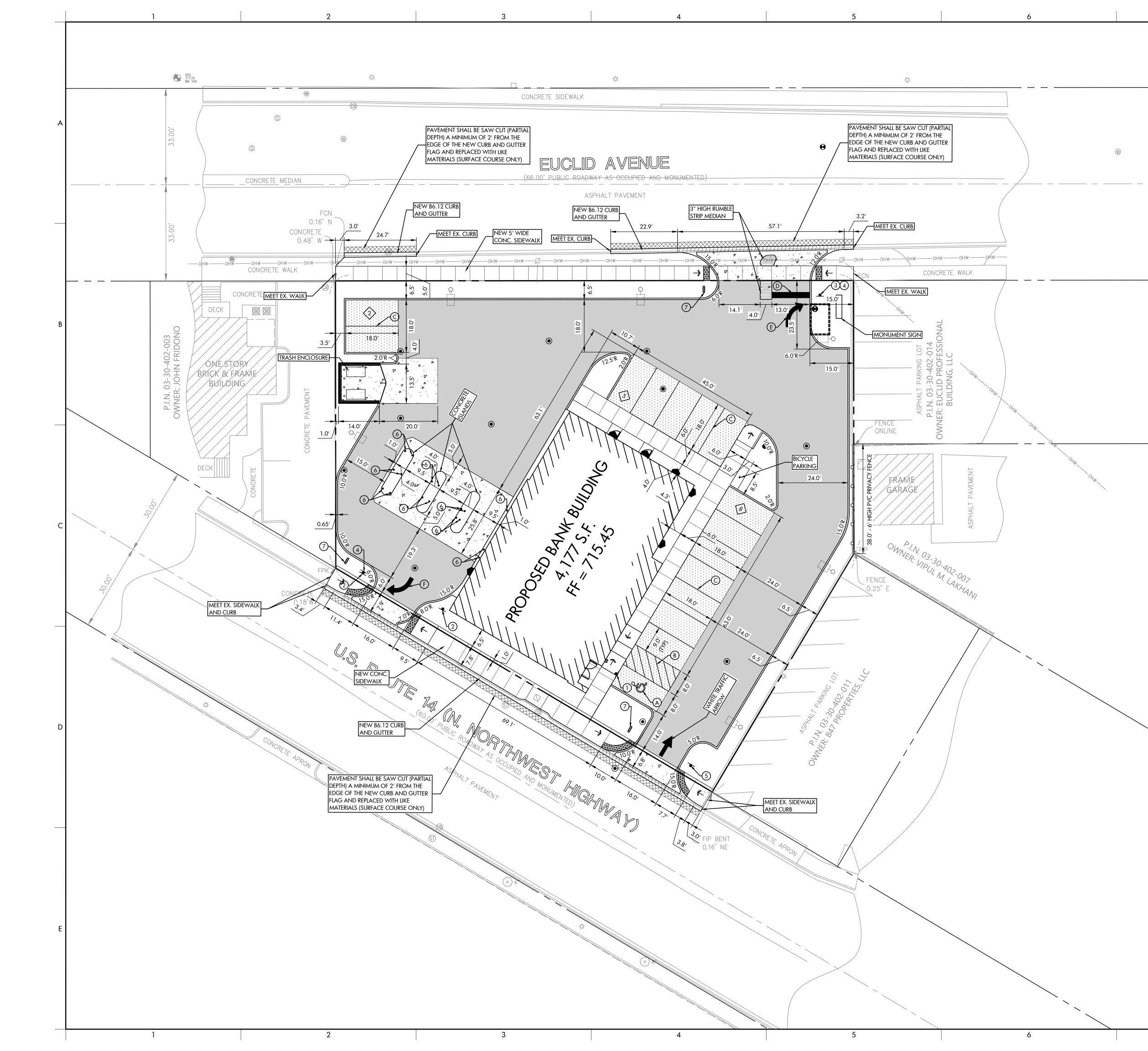
I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT DESCRIBED BELOW WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF ILLINOIS.

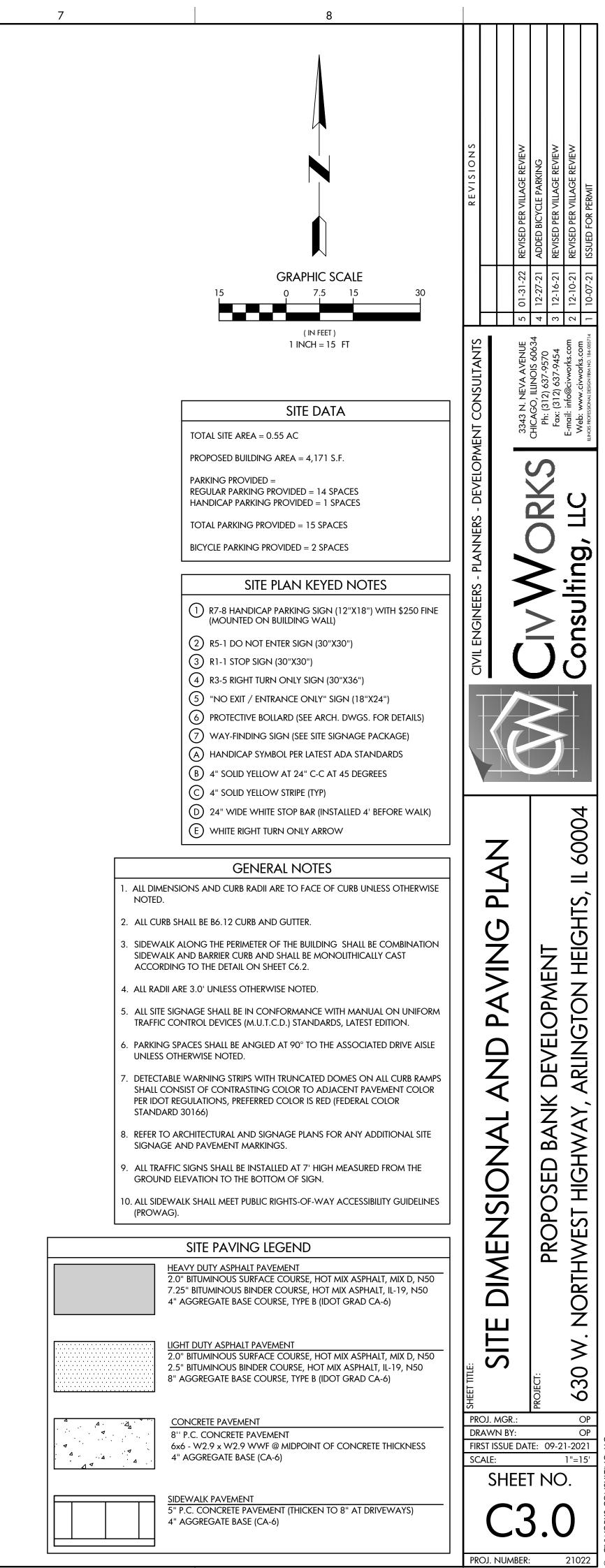
SIGNATURE: NAME: OSVALDO PASTRANA

DATE: ______ LICENSE NUMBER: ______ 062-057584 MY LICENSE RENEWAL DATE IS: FEBRUARY 28, 2022 PAGES, SHEETS OR DIVISIONS COVERED BY THIS SEAL: _FULL CIVIL SET

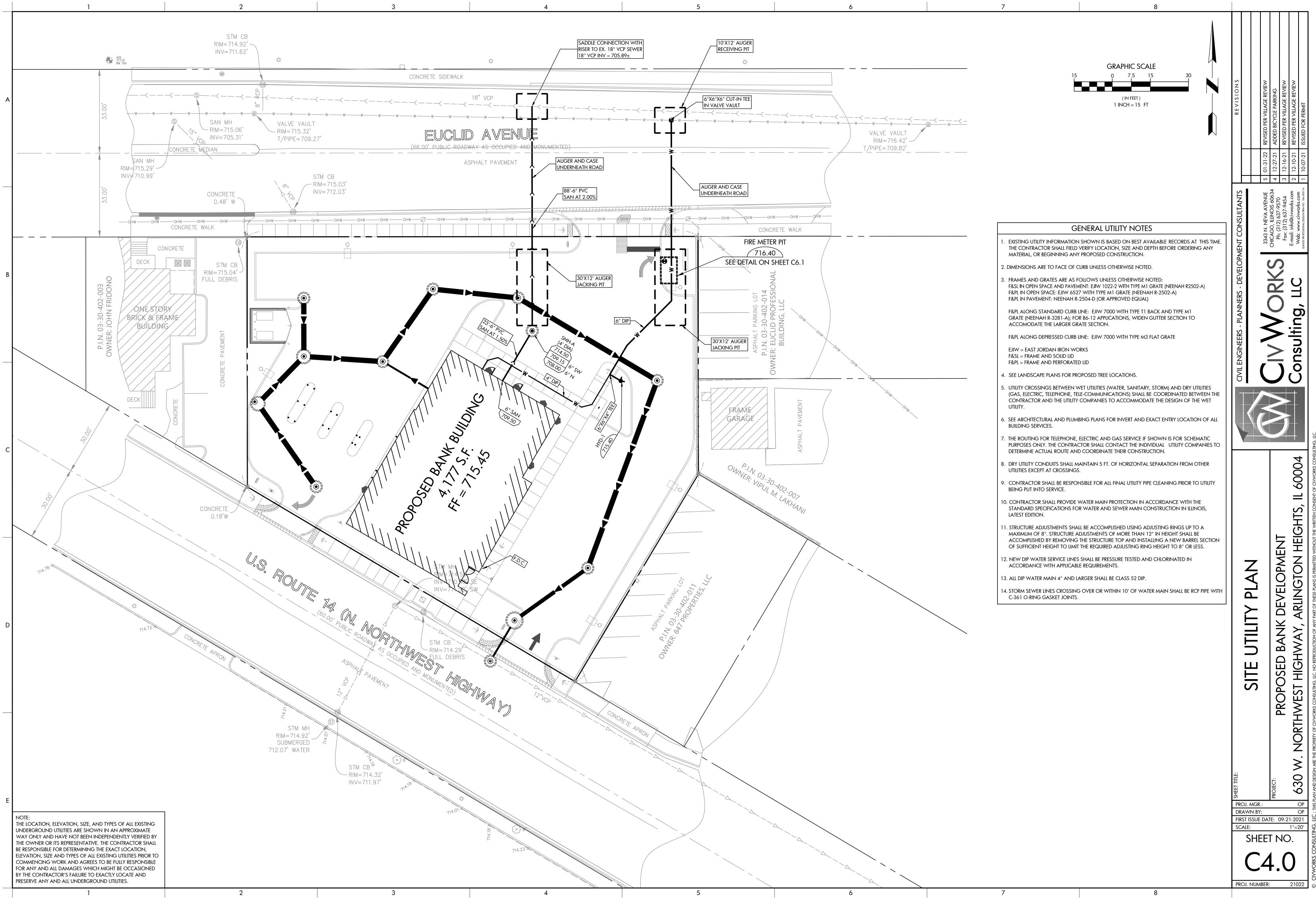


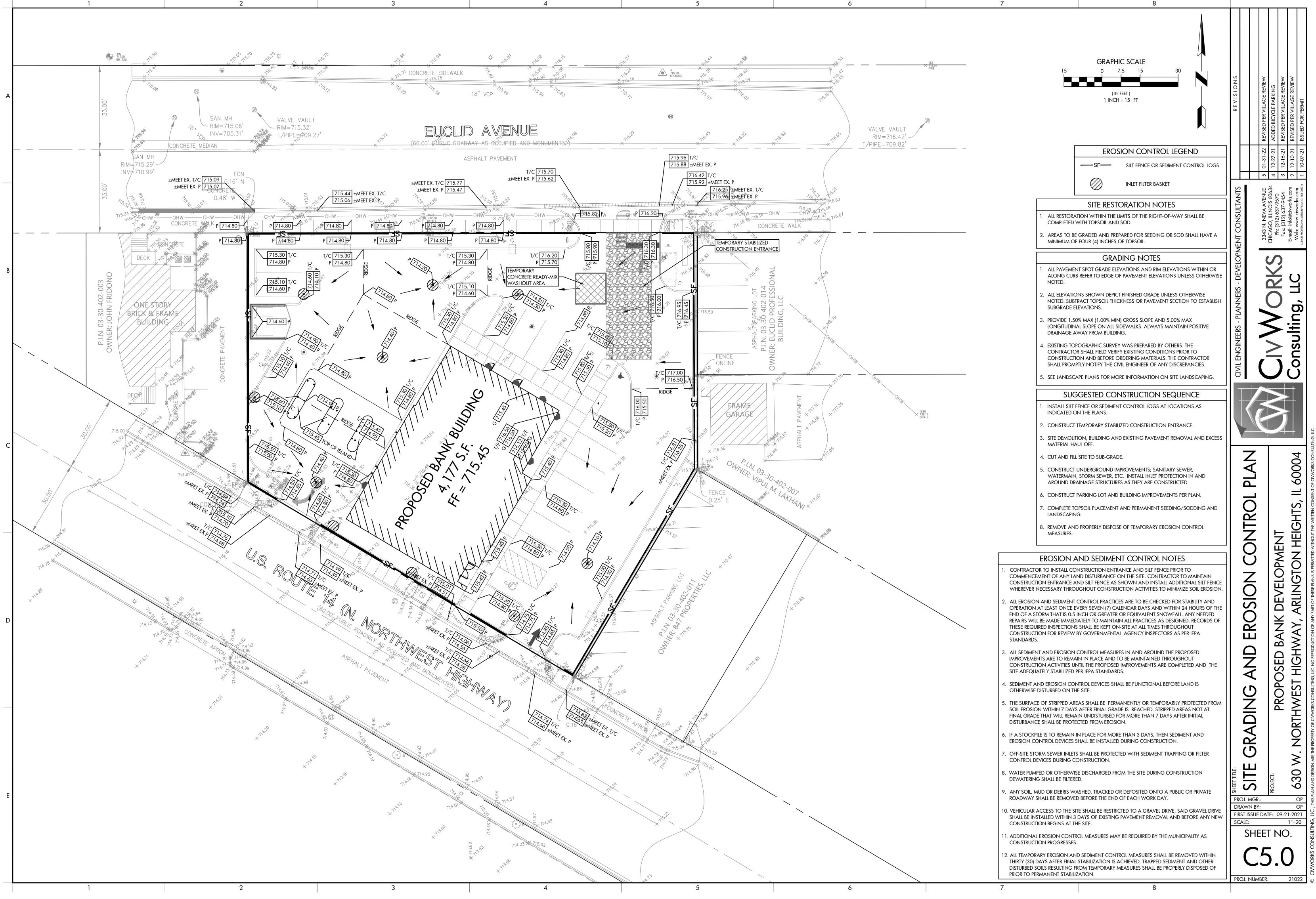


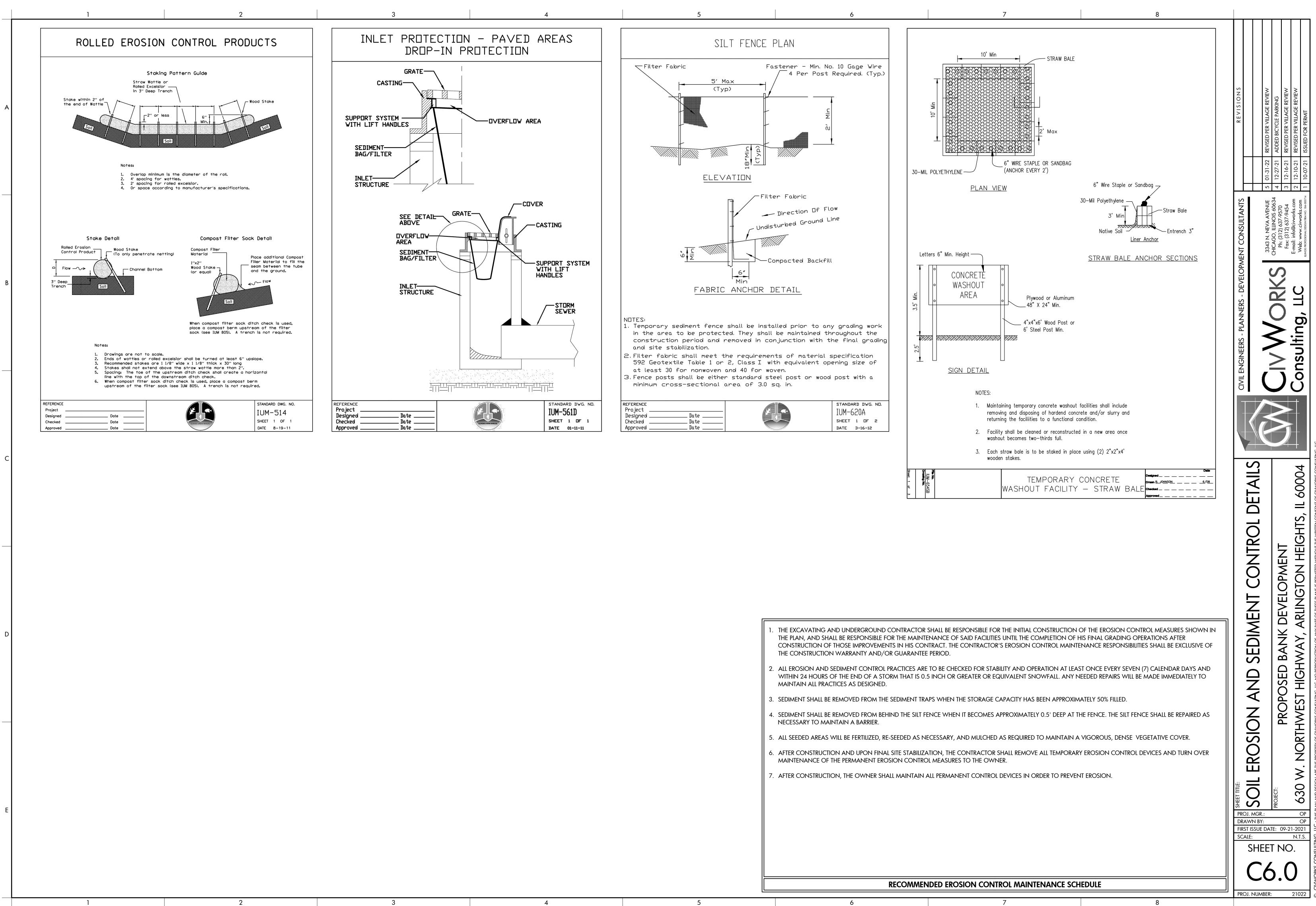


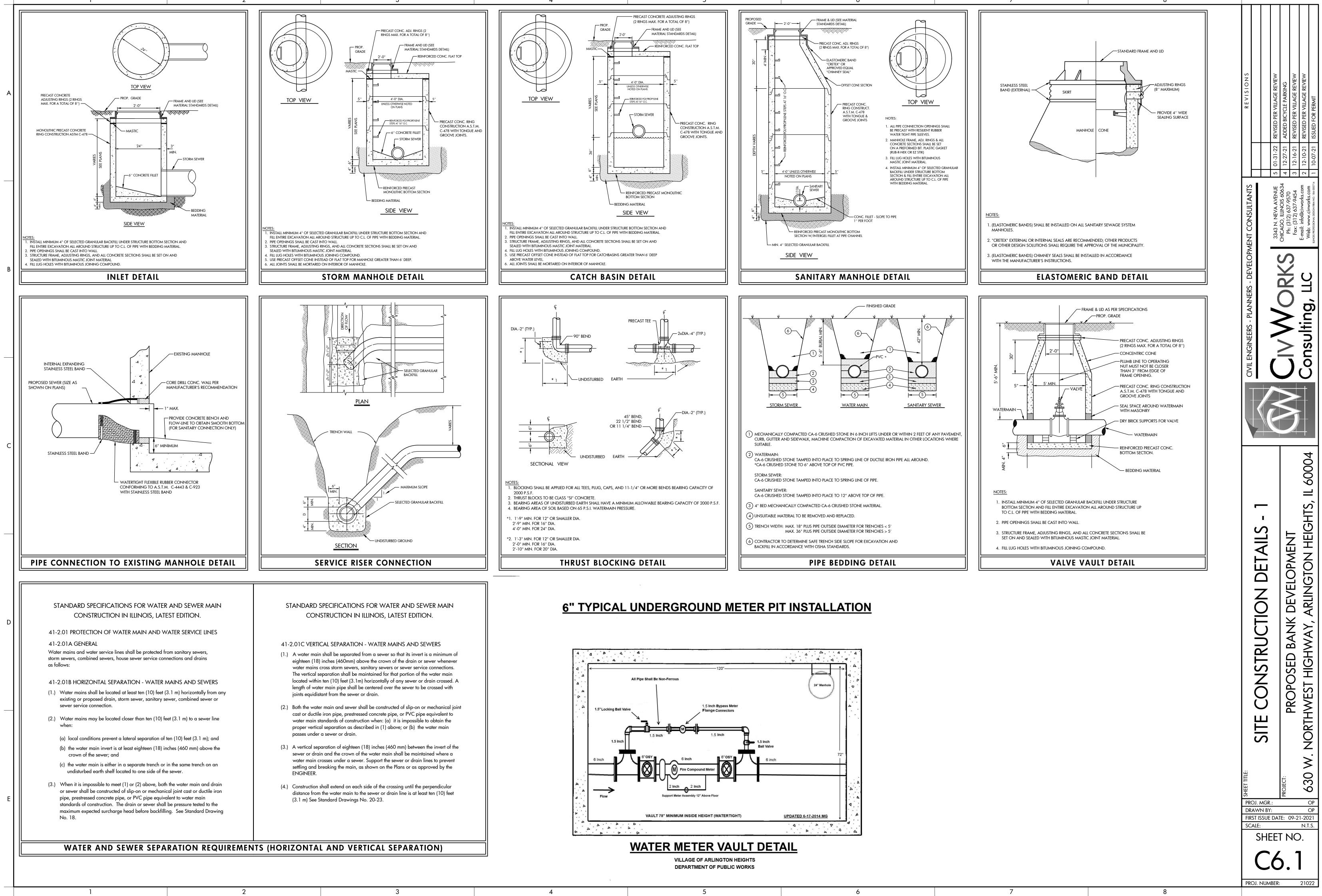


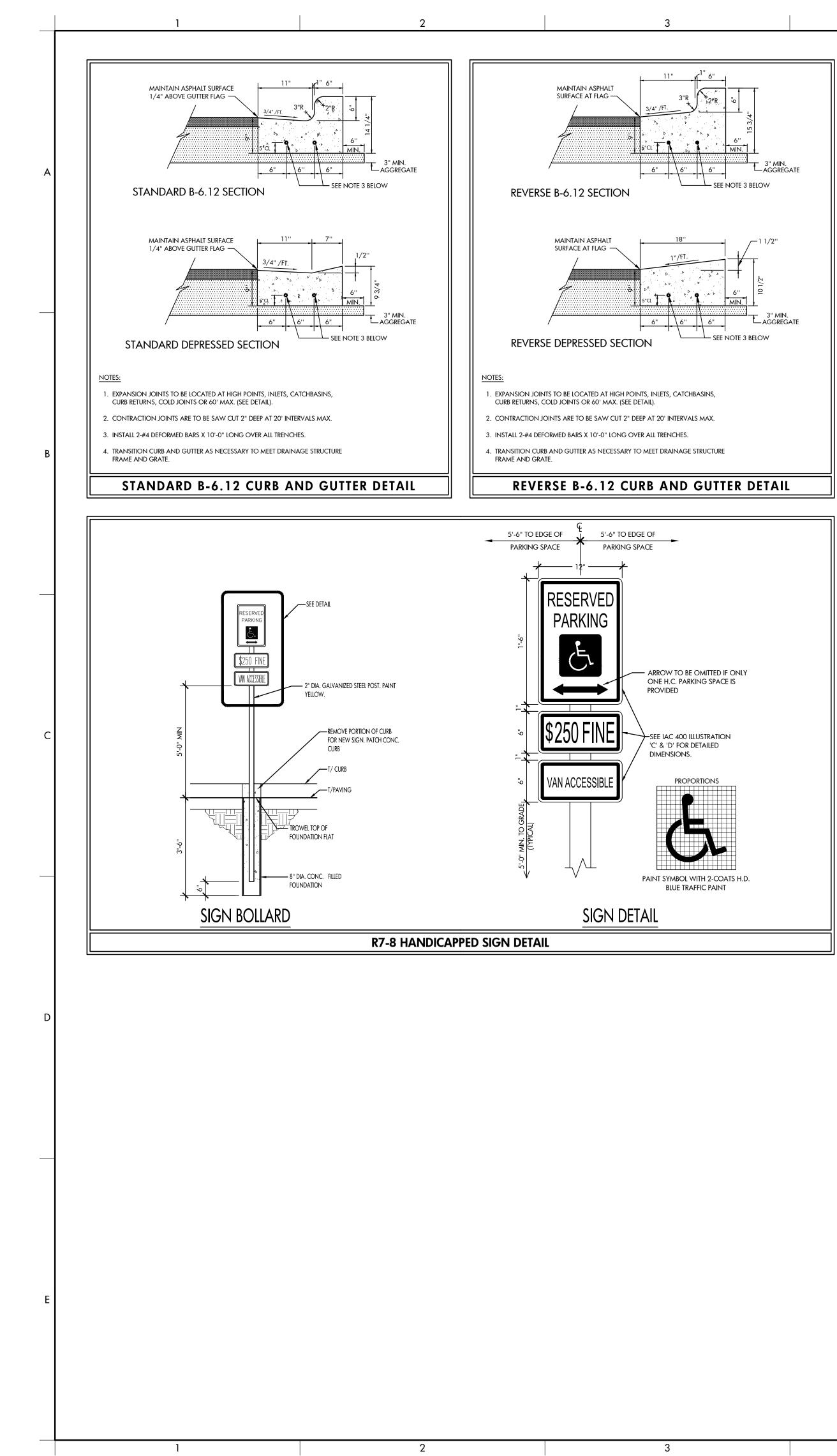
CIVWORKS CONSULTING, LLC ; THIS PLAN AND DESIGN ARE THE PROPERTY OF CIVWORKS CONSULTING, LLC. NO REPRODUCTION OF ANY PART OF THESE PLANS IS PERMITTED WITHOUT THE WRITTEN CONSENT OF CIV

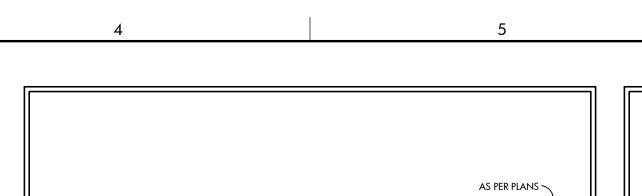












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E NOTE BELOW

- . . . . . A', A', A', A' A'

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1. EXPANSION JOINTS TO BE LOCATED AT HIGH POINTS, INLETS, CATCHBASINS, CURB RETURNS, COLD JOINTS OR 60' MAX. (SEE DETAIL).

2. CONTRACTION JOINTS ARE TO BE SAW CUT 2" DEEP AT 20' INTERVALS MAX.

COMBINATION BARRIER CURB AND SIDEWALK DETAIL

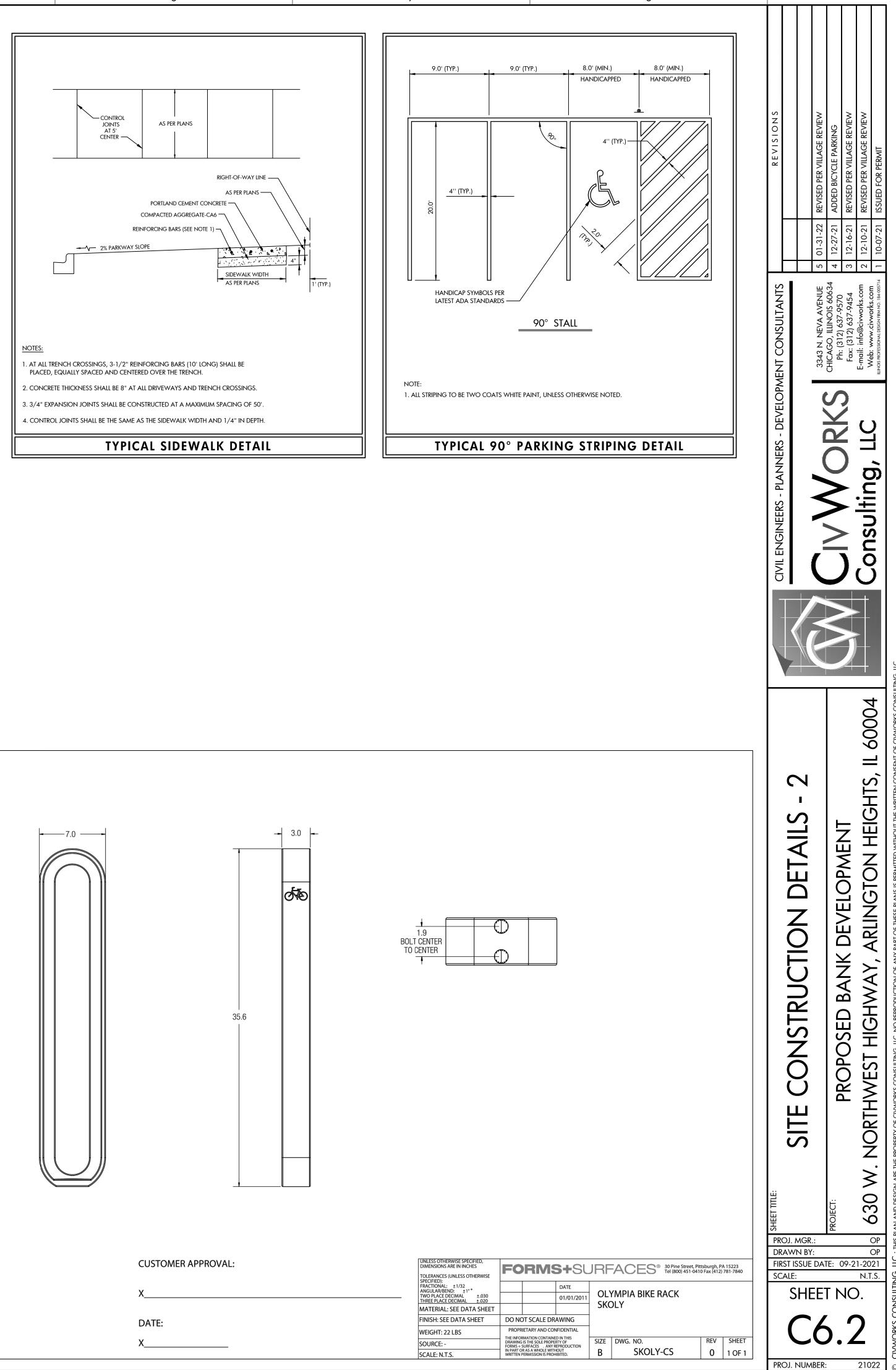
3. INSTALL 2-#4 DEFORMED BARS X 10'-0" LONG OVER ALL TRENCHES.

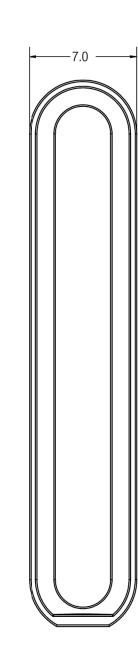
PAVEMENT SURFACE

NOTES:

AS PER PLANS

4" CA-6 BEDDING







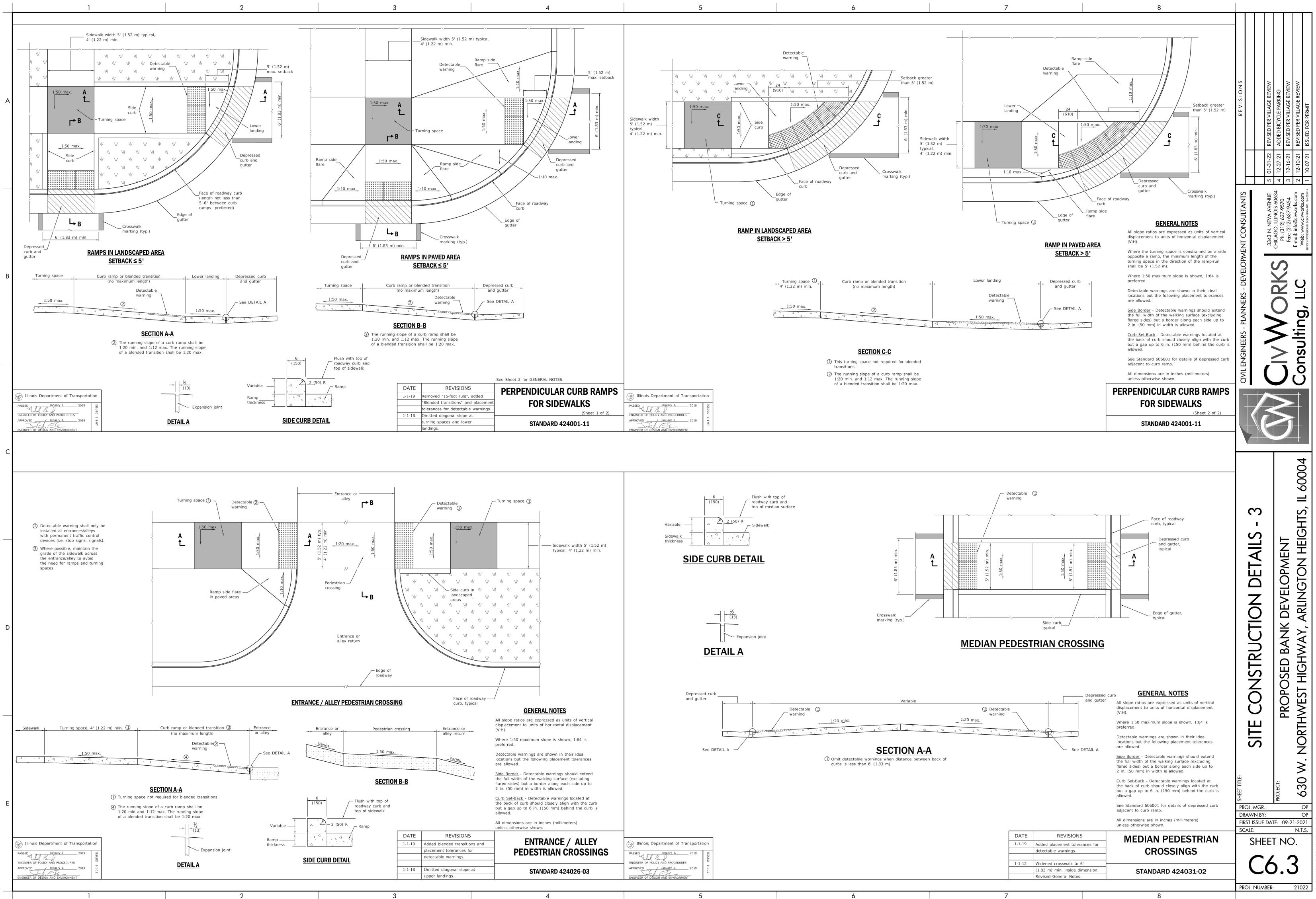
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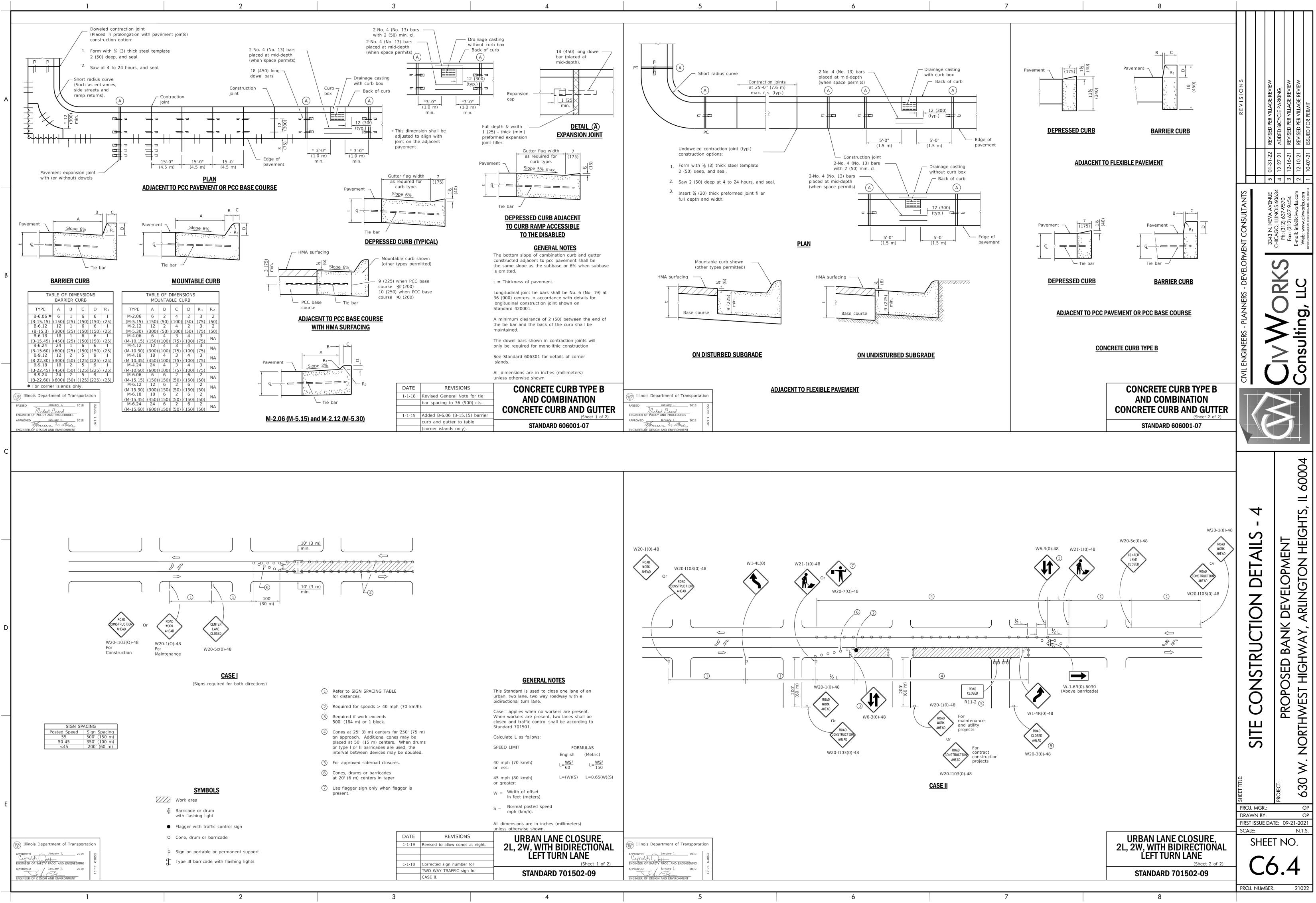


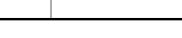
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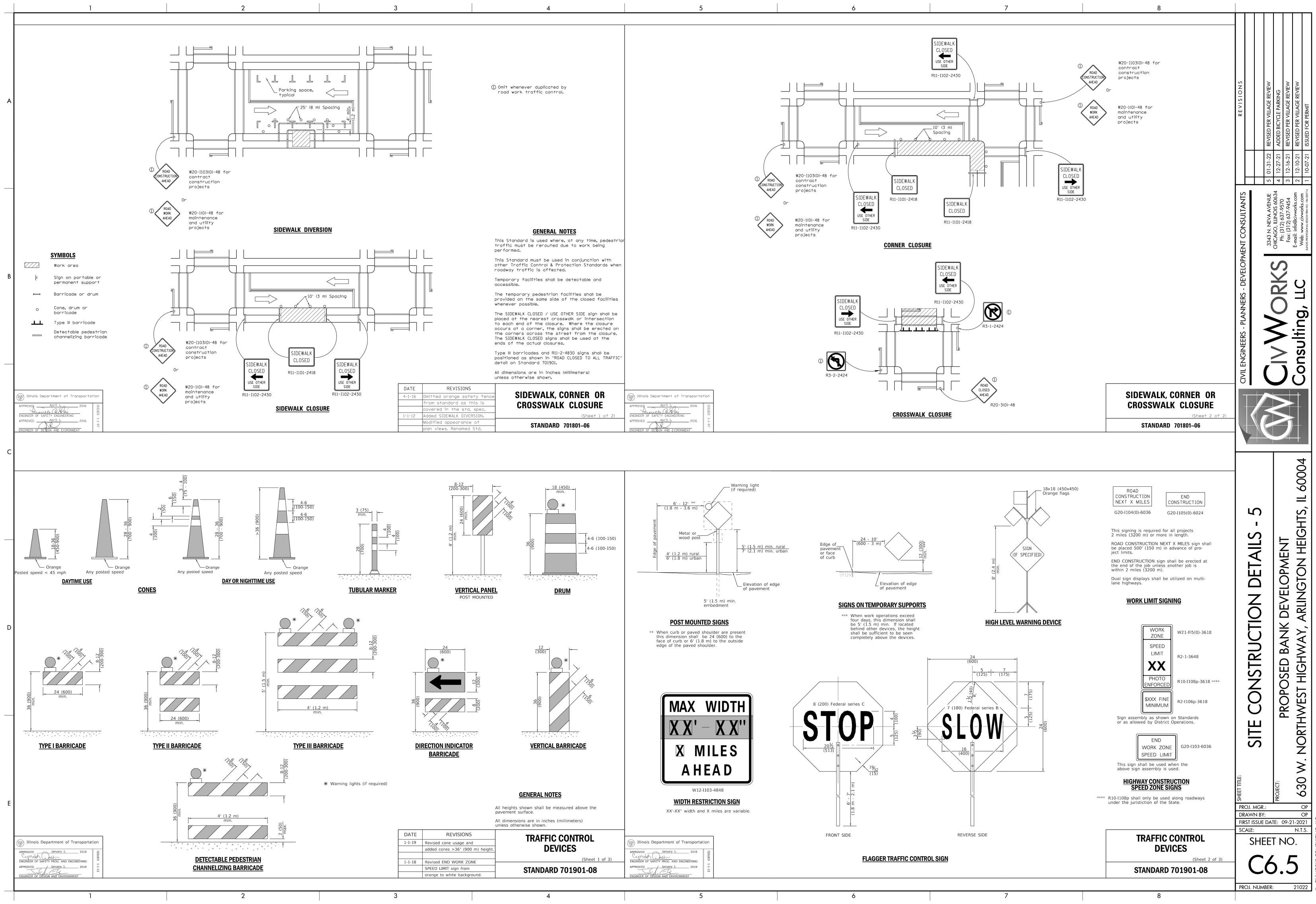


moved "15-foot rule", added		Illinois Department of Transportation	n
ended transitions" and placement	FOR SIDEWALKS	PASSED January 1, 2019	
erances for detectable warnings.		mase mula Band	SSCE
nitted diagonal slope at	(Sheet 1 of 2)	ENGINEER OF POLICY AND PROCEDURES	
ning spaces and lower	STANDARD 424001-11	APPROVED January 1, 2019	- 1 - 9 7
dings.		ENGINEER OF DÉSIGN AND ENVIRONMENT	









#### GENERAL CONDITIONS DETAILED SPECIFICATIONS I. EXCAVATION AND GRADING DEFINITION OF TERMS . "CLIENT" shall mean StoreBuild, LLC, which is the person or entity with whom CivWorks A. STANDARDS Consulting, LLC has contracted with to prepare Civil Engineering PLANS and SPECIFICATIONS. This work shall be completed in conformance with the applicable sections of the Standard Specifications for Road o. "ENGINEER" shall mean CivWorks Consulting, LLC, a Civil Engineering consultant on the and Bridge Construction, Department of Transportation, State of Illinois, latest edition. subject project. B.<u>GENERAL</u> "PLANS and SPECIFICATIONS" shall mean the Civil Engineering PLANS and SPECIFICATIONS prepared by the ENGINEER, which may be a part of the contract documents for the subject project. EARTHWORK CALCULATIONS AND CROSS SECTIONS d. "CONTRACTOR" shall mean any person or entity performing any work described in the PLANS The CONTRACTOR understands that any earthwork calculations, quantities or cross sections that have been and SPECIFICATIONS. furnished by the ENGINEER are for information only and are provided without any guarantee by the CLIENT or ENGINEER whatsoever as to their sufficiency or accuracy. CONTRACTOR warrants that he has performed his own "JURISDICTIONAL GOVERNMENTAL ENTITY" shall mean any municipal, county, state or federal subsurface investigations as necessary and his own calculations and cross sections to determine site soil conditions unit of government from whom an approval, permit and/or review is required for any aspect of the and earthwork volumes. subject project. C. EXCAVATION AND EMBANKMENT INTENT OF THE CONTRACT DOCUMENTS DEMOLITION The intention of the PLANS and SPECIFICATIONS is to set forth certain requirements of performance, type of eauipment and structures, and standards of materials and construction. They may also identify labor and materials, (a) CONTRACTOR shall perform all demolition work in accordance with all applicable Federal, State and local equipment and transportation necessary for the proper execution of the work but are not intended to be infinitely reauirements. determined so as to include minor items obviously required as part of the work. The PLANS and SPECIFICATIONS require new material and equipment unless otherwise indicated, and to require complete performance of the work in (b) The CONTRACTOR shall coordinate all demolition with the JURISDICTIONAL GOVERNING ENTITY and CLIENT spite of omissions of specific references to any minor component part. It is not intended, however, that materials or to ensure protection and maintenance of sanitary sewer and water utilities as necessary and to provide work not covered by or properly inferred from any heading, branch, class or trade of the SPECIFICATIONS shall be stormwater conveyance until new facilities are constructed, tested and placed into operation. supplied unless distinctly so noted. Materials or work described in words, which so applied have a well-known technical or trade meaning, shall be held to refer to such recognized standards. (c) CONTRACTOR shall develop and implement a daily program of dust control and shall submit and obtain JURISDICTIONAL GOVERNING ENTITY approval of dust control procedures prior to demolition of any structures. INTERPRETATION OF PLANS AND SPECIFICATIONS Modification of dust control procedures shall be performed by the CONTRACTOR to the satisfaction of the JURISDICTIONAL GOVERNING ENTITY as requested. a. The CLIENT and/or CONTRACTOR shall promptly report any errors or ambiguities in the PLANS and SPECIFICATIONS to the ENGINEER. Questions as to meaning of PLANS and SPECIFICATIONS shall be interpreted (d) All asphalt pavement curb and gutter and miscellaneous structures shall be demolished by the CONTRACTOR by the ENGINEER, whose decision shall be final and binding on all parties concerned. and disposed of as approved by CLIENT. b. The ENGINEER will provide the CLIENT with such information as may be required to show revised or additional (e) All existing sewers outside the building as indicated on the PLANS to be abandoned shall be removed from the details of construction. site and disposed of by the CONTRACTOR. . Should any discrepancies or conflicts on the PLANS or SPECIFICATIONS be discovered either prior to or after (f) Voids left by any item removed under any proposed building, pavement or walk or within 24" thereof shall be award of the contract, the ENGINEER's attention shall be called to the same before the work is begun thereon and filled and compacted with suitable materials by the CONTRACTOR. the proper corrections made. Neither the CLIENT nor the CONTRACTOR may take advantage of any error or omissions in the PLANS and SPECIFICATIONS. The ENGINEER will provide information when errors or omissions (g) All fire access lanes within the project area shall remain in service, clean of debris, and accessible for use by are discovered. emergency vehicles **GOVERNING BODIES** (h) Any existing wells encountered shall be exposed and sealed 3' below proposed finish grade by the CONTRACTOR in accordance with Section 920.120 of the Illinois Water Well Construction Code, Department of All works herein proposed shall be completed in accordance with all requirements of any JURISDICTIONAL Public Health, Latest Edition, and all applicable local rules and regulations. GOVERNMENTAL ENTITY, and all such pertinent laws, directives, ordinances and the like shall be considered to be a part of these SPECIFICATIONS. If a discrepancy is noted between the PLANS and SPECIFICATIONS and (i) Any existing septic tanks and grease traps encountered shall have all liquids and solids removed and disposed of requirements of any JURISDICTIONAL GOVERNMENTAL ENTITY, the CONTRACTOR shall immediately notify the by a licensed commercial hauler in accordance with Governmental Jurisdictional Entity regulations, and the tank ENGINEER in writing. and grease traps shall then be filled with suitable materials or removed from the site and disposed of by the CONTRACTOR. LOCATION OF UNDERGROUND FACILITIES (j) Any material containing asbestos found within existing structures shall be removed from the site and disposed of When the PLANS and SPECIFICATIONS include information pertaining to the location of existing underground off-site by the CONTRACTOR in accordance with County, State and Federal regulations. facilities, such information represents only the opinion of the ENGINEER as to the approximate location of such CLEARING, GRUBBING AND TREE REMOVAL utilities. At the locations wherein detailed positions of these facilities become necessary to the new construction, the CONTRACTOR shall furnish all labor and tools to either verify and substantiate the location or definitely establish the position of the facilities. The ENGINEER assumes no responsibility whatever with respect to the sufficiency or The site shall be cleared, grubbed, and trees and stumps removed where designated on the PLANS. Trees accuracy of the information shown on the PLANS and SPECIFICATIONS relative to the location of underground designated to remain shall be protected from damage. TOPSOIL STRIPPING

It shall be the CONTRACTOR's responsibility prior to construction, to notify all Utility Companies of the intentions to begin construction and to verify the actual location of all such facilities. The CONTRACTOR shall also obtain from the respective Utility Companies the working schedules for removing or adjusting these facilities.

#### UNSUITABLE SOILS

The PLANS have been prepared by the ENGINEER based on the assumption that all soils on the project are suitable to support the proposed improvements shown. The CONTRACTOR shall immediately notify the ENGINEER if he discovers or encounters an obstruction that prevents the installation of the improvement according to the line and grades shown on the PLANS.

**PROTECTION OF TREES** 

All trees that are not to be removed shall be protected from damage. Trees shall not be removed unless requested to do so in writing by the CLIENT.

NOTIFICATION OF UTILITY COMPANIES

The CONTRACTOR shall notify all applicable Jurisdictional Governmental Entities or utility companies, i.e., electric, telephone, gas and cable TV prior to beginning any construction so that said entity or company can establish the location of underground pipes, conduits or cables adjoining or crossing proposed construction

## SOIL BORING DATA

Copies of results of soil boring and reports, if such borings were taken by the CLIENT in the vicinity of the proposed construction site, should be made available by the CLIENT to the CONTRACTOR. These borings are presented for whatever purpose the CONTRACTOR chooses to make of them. The ENGINEER makes no representation or warranty regarding the number, location, spacing or depth of borings taken, nor of the accuracy or reliability of the information given in the results thereof.

Further, the ENGINEER does not assume responsibility for the possibility that during construction, the soil and groundwater condition may be different than indicated. Neither does the ENGINEER assume responsibility for variations of soil and groundwater at location between borings. The CONTRACTOR is required to make its own borings, explorations and observations to determine soil and groundwater conditions.

#### TRAFFIC CONTROL

The CONTRACTOR shall provide when required by any JURISDICTIONAL GOVERNMENTAL ENTITY, all signs, equipment, and personnel necessary to provide for safe and efficient traffic flow in all areas where the work will interrupt, interfere or cause to change in any form, the conditions of traffic flow that existed prior to the commencement of any portions of the work. The CLIENT may, at his discretion, require the CONTRACTOR to furnish traffic control under these or other circumstances where in his opinion it is necessary for the protection of life and property. The need for traffic control shall be anticipated by the CLIENT.

#### UTILITY POLES

It shall be the responsibility of the CONTRACTOR to arrange for the relocation or bracing of existing utility poles that may be within the working limits of this contract. It is expressly understood that all work and costs connected with the maintenance of these utility poles, their temporary relocations, etc., shall be the responsibility of the CLIENT or the CONTRACTOR.

#### RESTORATION

Restoration of damage to public or private property outside the limits of this project and of all existing roads and rights-of-way and easements shall be completed in accordance with the applicable sections of the Standard Specifications for Road and Bridge Construction, Department of Transportation, State of Illinois, latest edition.

It is the intent of these SPECIFICATIONS that clean-up and final restoration shall be performed immediately upon completion of each phase of the work so that these areas will be restored as nearly as possible to their original condition or better, and shall include but not be limited to, restoration of maintained lawns and rights-of-way, roadways, driveways, sidewalks, ditches, bushes, hedges, trees, shrubs, fences, mailboxes, sewers, drain tiles, water mains, etc.

#### ROAD CLEANING

The CONTRACTOR shall maintain roadways adjoining the project site free from mud and debris at all times. If mud and/or debris is carried onto the roadways from vehicles entering onto the highway from either the CONTRACTOR's trucks, his employees' vehicles, or his material suppliers, the CONTRACTOR shall immediately remove said mud and/or debris.

#### All suitable excavated materials shall be hauled, placed (moisture conditioned if necessary) and compacted in the embankment areas. The CONTRACTOR shall include all dewatering, temporary ditching and culverts necessary to complete the excavation and embankment. Specifically included in the scope of Excavation and Embankments is grading and shaping of all cut or fill areas including swales and ditches; handling of sewer spoil, etc., and all work required to provide positive drainage at the end of each working day and upon completion of a section.

Upon completion of demolition, clearing, grubbing and tree removal, all topsoil shall be stripped from under all

buildings and pavements areas, and other areas necessary to complete the work. Topsoil stripped shall be placed in

Upon completion of parking lot improvements and installation of underground utilities a minimum of six inches (6")

Upon completion of topsoil stripping, all excavation and embankments shall be completed as shown on the PLANS.

of topsoil shall be respread over all onsite areas which are disturbed by earthwork construction, except building

The CONTRACTOR shall be responsible for the excavation of all swales and ditches and for the excavation or filling of the parking lot within the work limits to within  $\pm 0.1$  feet of the proposed subgrade elevations indicated on the PLANS. He shall be responsible for obtaining compaction in accordance with the minimum values listed in the table below for all embankments unless more stringent values are listed in the soils report, and to use any method approved by the CLIENT necessary to obtain this compaction (i.e., soil fabric or any undercutting that may be required). All existing materials are assumed to have a California Bearing Ratio (CBR) of 3.0.

Type Material	Percent Compaction Standard	Pavement & Floor Slabs	<u>Grass Areas</u>
Sandy Soils	Modified Proctor	95%	90%
Clayey Soils	Standard Proctor	95%	90%

unless approved otherwise in the soils report or by the CLIENT.

The CONTRACTOR shall notify the CLIENT if proper compaction cannot be obtained so that the CLIENT may determine what remedial measures may be needed.

A soils testing firm employed by the CLIENT shall determine which soils are unsuitable. Materials in their natural state being defined as unsuitable that would be suitable material if moisture conditioned, shall be conditioned by the CONTRACTOR and used as suitable embankment material or hauled from the site.

For purposes of definition, unsuitable material shall be as follows unless determined otherwise by the Soils Engineer:

a. Any soil whose optimum moisture content exceeds 25%.

stockpiles in locations as designated by the CLIENT.

pads and pavements, which shall be kept free from topsoil.

EXCAVATION AND EMBANKMENT (FILL)

TOPSOIL RESPREAD

b. Any cohesive soil with a unconfined compressive strength of 1.5 tons per square foot or less. c. Any soil whose silt content exceeds 60% by weight.

d. Any soil whose maximum density is less than 100 pounds per cubic foot. e. Any soil containing organic, deleterious, or hazardous material.

Upon completion of excavation and shaping of the water retention areas, all silt seams and granular or sandy soils shall be removed to a minimum depth of three feet below the subgrade and replaced with an impermeable clay liner, including adjacent to and under storm sewer inlets and outlets. It is the intent of these PLANS and SPECIFICATIONS that the CONTRACTOR shall prepare the lake bottoms, side slopes, and compaction thereof so that the lakes will maintain the proposed normal water level and that leakage does not exceed ½ inch per week.

Ditches and swales are to be excavated to the lines and grades indicated on the PLANS. All suitable materials excavated from the ditches shall be used in construction of the embankments.

The CONTRACTOR shall notify the CLIENT immediately upon encountering groundwater during excavation. If in the opinion of the CLIENT or the JURISDICTIONAL GOVERNING ENTITY this condition necessitates the installation of perforated drain tile bedded in washed gravel or open storm sewer joints wrapped with fabric, the CONTRACTOR shall install same.

During excavation and embankment, grades may be adjusted to provide an overall site earthwork balance. The CONTRACTOR shall cooperate fully with the CLIENT in adjustment of grades, construction methods and placement of material to meet the above goals and shall immediately advise CLIENT if he believes that the earthwork will not

It is the intent of these PLANS that storm waters falling on the site be diverted into sedimentation / lake / detention basins during construction. The CONTRACTOR shall construct and maintain any temporary ditches or swales that are necessary to accomplish this prior to beginning mass excavation.

#### **EROSION CONTROL**

Suitable erosion control practices shall be maintained by the CONTRACTOR in accordance with Illinois Urban Manual and all applicable Soil Erosion and Sedimentation Control ordinances and the PLANS.

## UNDERCUTTING DURING EARTHWORK

If the subgrade cannot be dried adequately by discing as outlined above for placement of material to planned grades and if the CLIENT determines that the subgrade does not meet the standards set forth above, the CLIENT may require undercutting.

## **II.** UNDERGROUND IMPROVEMENTS

# A. <u>GENERAL</u>

#### **STANDARDS**

All underground improvements shall be constructed and tested in accordance with the Standard Specifications for Water and Sewer Main Construction in Illinois, latest edition. The Standard Specifications for Road and Bridae Construction, Department of Transportation, State of Illinois and the City of Arlington Heights Water Main, Sanitary Sewer and Storm Sewer Requirements. In the event of conflicting guidelines, the more restrictive shall govern.

#### SELECTED GRANULAR BACKFILL

Selected Granular Backfill shall be required for all sewer and water main trenches lying under existing or proposed streets, driveways, parking lots and within 24" thereof, and where noted on PLANS. All material placed in such trenches shall be in accordance with the above standards.

#### MANHOLES, CATCH BASIN, & INLETS

All Manholes, Catch Basins, and Inlets shall be constructed of reinforced precast concrete ring construction with tongue and groove joints in conformance with the latest revision of ASTM designation C-478. All joints between sections and frames (except sanitary manholes, see Section IIB Manholes, below) shall be sealed with mastic type bituminous jointing compound. CONTRACTOR shall remove all excess mastic on inside of structure and butter joints with mortar. Manholes are to have offset cones except that no cone shall be used on storm manholes 6'-0" deep or less in which case a reinforced concrete flat top section shall be used, and Valve Vaults shall have concentric cones. Only concrete adjustment rings will be permitted where necessary and shall be limited to two adjustment rings totaling not more than 8" in height. All manholes and catch basin steps shall be copolymer polypropylene with continuous ¹/₂" steel reinforcement as manufactured by MA Industries, or approved equal.

#### HORIZONTAL AND VERTICAL SEPARATION OF WATER AND SEWER MAINS

Horizontal and vertical separation of water and sewer mains shall be in accordance with Standard Specifications for Water and Sewer Construction in Illinois Section 41-2.01B and 41-2.01C and Standard Drawing 18, 19, 20, 21, 22, 23 and 24

#### STRUCTURE ADJUSTMENTS

Structures shall be adjusted to the finished grade as shown on PLANS

## **B.SANITARY SEWERS AND APPURTENANCES**

SANITARY SEWER PIPE

# Sanitary sewer pipe including building services, shall conform to the following:

(a) Polyvinyl Chloride (PVC) Sewer Pipe shall be SDR 26, complying with ASTM D2241, 160 psi pressure pipe push-on bell and spigot type joints with rubber ring seal gasket ASTM D3139.

Sanitary sewers shall include bedding and backfilling.

#### MANHOLES

Manholes shall be constructed in conformance with Section IIA Manholes, etc. above. The concrete base and bottom section shall be constructed of precast reinforced concrete monolithically cast sections including benches, pipe connection and invert flow lines. Manhole frame and lids shall be East Jordan Iron Works (EJIW) Catalog Number 1022-2 with Heavy Duty Solid Cover (minimum assembled weight of 300 lbs. or approved equal, with lids imprinted "SANITARY", and recessed pick holes. Manhole joints between adjustment rings and frames and between manhole sections shall be set on preformed plastic gasket consisting of a homogeneous blend of refined hydrocarbon resins and plasticizing compounds reinforced with inert mineral filler to provide a water tight seal. All pipe connection openings shall be precast with resilient rubber water tight pipe sleeves. A 10" elastomeric band (chimney seal, Wrapid Seal Manhole Encapsulation System or approved equal) shall be installed extending from the manhole top to the manhole frame as shown on detail. Manholes shall include steps, frame & grate, bedding, and trench backfill.

#### BEDDING

Bedding shall be placed as shown on the detail

#### <u>TESTING</u>

Sanitary sewers shall be air tested and tested for deflection in accordance with the requirements of Section 31-1.1 "TESTING AND INSPECTION FOR ACCEPTANCE OF SANITARY SEWERS" of the Standard Specifications for Water and Sewer Main Construction in Illinois or the JURISDICTIONAL GOVERNING ENTITY, whichever is more restrictive. In addition, a televised inspection of the completed sanitary sewers shall be conducted and a copy of the videotape and report furnished to the JURISDICTIONAL GOVERNING ENTITY.

All sanitary manholes are to be tested for water tightness in accordance with ASTM C969-94-"Standard Practice for Infiltration and Exfiltration Acceptance Testing of Installed Precast Concrete Pipe Sewer Lines", Vol. 04.05 or ASTM C1244-93-"Standard Test Method for Concrete Sewer Manholes by the Negative Pressure (Vacuum) Test", Vol.

#### SERVICES

A wye branch or "tee" and sanitary service line, properly plugged and sealed shall be constructed as shown on the PLANS. The ends of all services shall be marked with a 4"x4" post extending 36" above grade and painted rec The CONTRACTOR shall keep accurate records of all Wye or Tee locations as measured from the downstream manhole as well as the service lengths and furnish same to CLIENT.

Risers shall be constructed in locations as shown on the PLANS and according to the detail.

# **TELEVISION INSPECTION**

Upon completion of construction a television inspection of the sanitary sewer system shall be performed on all portions of the sewer if required by the JURISDICTIONAL GOVERNING ENTITY. Videotapes and written report of all television inspections shall be provided to the CLIENT. The form of report and type and format of the videotape shall be approved by the JURISDICTIONAL GOVERNING ENTITY.

All sewers and appurtenances shall be cleaned prior to inspection and testing required by this section.

All defects and corrective work required as the result of television inspection shall be performed by the CONTRACTOR without delay. All dips, cracks, leaks, improperly sealed joints and departures from approved grades and alignment shall be repaired by removing and replacing the involved sections of pipe. Upon completion thereof, the sewer shall be retested and such further inspection made as may appear warranted by the CLIENT.

#### MISCELLANEOUS

a. All abandoned sanitary sewers shall be plugged at both ends with 2-ft long non-shrink concrete or mortar plugs. b. All floor drains shall be connected to the sanitary sewer

4

#### C. WATER MAINS AND APPURTENANCES

#### WATER MAIN PIPE (3" AND LARGER Water main pipe shall conform to the following:

(a) Ductile iron cement lined pipe conforming to the latest revision of ANSI SPECIFICATIONS A21 Class 52 with 150 psi working pressure or American Water Works Association Specification (AWWA), C150 or ASTM C296 with "push on" type joints.

Installation shall be in accordance with AWWA C603. All water main fittings shall be mechanical joint cast iron ANSI Specification A21.10 or compact ductile iron fittings (AWWA C-153) with 250 psi working pressure.

Poured or monolithic concrete thrust blocks are required to brace all tees, plugs, caps, and bends of 11 1/4 degree BITUMINOUS BASE COURSE deflection or greater. Minimum cover for all water mains, including services, shall be 5'-6" from the finished grade. Water main shall include bedding and backfilling.

#### VALVES AND VAULTS

Valve and vaults shall be constructed in conformance with Section IIA Manholes, etc. above. Frame and lids shall be East Jordan Iron Works (EJIW) Catalog Number 1022-2 with Heavy Duty Solid Cover (minimum assembled weight of 300 lbs. or approved equal, with lids imprinted with the word "WATER". Valves shall be non-rising stem and shall close by turning clockwise. All valves shall be resilient wedge gate or ball valves conforming to the latest revision of AWWA Specification C500 with a rated working pressure of 200 psi in accordance with JURISDICTIONAL GOVERNING ENTITY requirements, except that butterfly valves shall be constructed on all water mains 16" diameter and larger. Valve vaults shall include valve, frame and grate, bedding, and trench backfill, if required.

#### VALVES AND BOXES

Valves and boxes shall be constructed in conformance with the standard detail. Valve boxes shall be Minneapolis style extension screw type having lids imprinted with the letters "Water" and shall close by turning clockwise. All valves shall be resilient wedge gate or ball valve conforming to the latest revision of AWWA Specification C500 with a rated working pressure of 200 psi in accordance with JURISDICTIONAL GOVERNING ENTITY requirements, except that butterfly valves shall be constructed on all water mains 16" diameter and larger.

#### TAP, STOPS AND BOX

The CONTRACTOR shall determine from the JURISDICTIONAL GOVERNING ENTITY as to the exact style, type, and manufacture of Corporation stops, ground key stops and services boxes preferred by the JURISDICTIONAL GOVERNING ENTITY and shall furnish same.

#### FIRE HYDRANTS

All Fire Hydrants on new water main shall be new Waterous Pacer Model WB-67 Fire Hydrants painted red.

SMALL WATER SERVICES (2" DIAMETER OR LESS)

Water services shall be type K copper size as shown on PLANS, and constructed where shown on the PLANS. The ends of all services shall be marked with a 4"x4" post extending 36" above grade and painted blue. The CONTRACTOR shall keep accurate records of tap locations and service box locations, as well as the service lengths and furnish same to CLIENT. Water services shall include bedding and trench backfill.

#### DISINFECTION

Disinfections shall meet all of the requirements of the State of Illinois, Environmental Protection Agency, Public Water shall be filled and compacted with embankment mate Supplies Division. The safe quality of the water supply shall be demonstrated by bacteriological analysis of samples shall then restore the remaining 6" to its original con collected at sampling taps on at least two consecutive days following disinfection of the mains and copies of the said connects to an existing curb, the existing curb shall be report submitted to the JURISDICTIONAL GOVERNING ENTITY and the CLIENT.

#### PRESSURE TEST

Allowable leakage, test pressure and duration shall be as per the requirements of the JURISDICTIONAL GOVERNING ENTITY

#### PRESSURE CONNECTION TO EXISTING WATER MAIN

The CONTRACTOR shall maintain system pressure on existing water main at all times. Existing water main shall be located and material excavated, and valve basin slab and main supports installed. The existing water main shall be (a) If the base course is proof-rolled and passes, ther cleaned and the exterior disinfected prior to making the tap (all materials used shall conform to AWWA C110).

#### BEDDING

Bedding shall be placed as shown on the detail.

STORM SEWERS AND APPURTENANCES

#### STORM SEWER PIPE

Storm sewer pipe shall conform to the following:

(a) Polyvinyl Chloride (PVC) Pipe: ASTM D3034, rated SDR 21, continually marked with manufacturer's name, pipe size, cell classification, SDR rating. Joints shall conform to ASTM D3212.

(b) Reinforced concrete pipe minimum Class IV in conformance with the latest revision of ASTM designation C-76 pipe with C443 joints.

#### Storm sewer shall include bedding and trench backfill.

MANHOLES, INLETS & CATCH BASINS

Manholes, Inlets and Catch Basins shall be constructed in conformance with Section IIA Manholes, etc. above. Frames and lids shall be East Jordan Iron Works (EJIW) Catalog Number 1022-2 with Heavy Duty Solid Cover (minimum assembled weight of 300 lbs. or approved equal, with lids imprinted with the word "STORM" and a "DUMP NO WASTE DRAINS TO CREEK" emblem. All frames and grates shall be provided such that the flange fully accordance with the IDOT Standard Specifications. covers the opening plus 2" of the structure as a minimum. Manholes shall include steps, frame & grate, bedding and trench backfill.

#### BEDDING

Bedding shall be placed as shown on the detail

#### MISCELLANEOUS

(a) All existing field drainage tile or storm sewers encountered or damaged during construction shall either be restored to their original condition, properly rerouted and/or connected to the storm sewer system.

Footing drains shall be connected to sump pumps or discharged directly into storm sewers. Footing drains or drainage tile shall not be connected to the sanitary sewer.

5

# III. ROADWAY AND PARKING LOT IM STANDARDS

#### Work shall be completed in accordance with the app Bridge Construction, Department of Transportation,

# SUBGRADE PREPARATION

#### The CONTRACTOR shall be responsible for all subgr subgrade elevation with the average subgrade eleva elevation.

#### AGGREGATE BASE COURSE TYPE 'B

#### SIDEWALKS

#### CURB AND GUTTER

#### CONCRETE PAVEMENTS

#### CONCRETE CURB REMOVAL AND REPLA

#### **PROOF ROLLING**

# without further proof rolling.

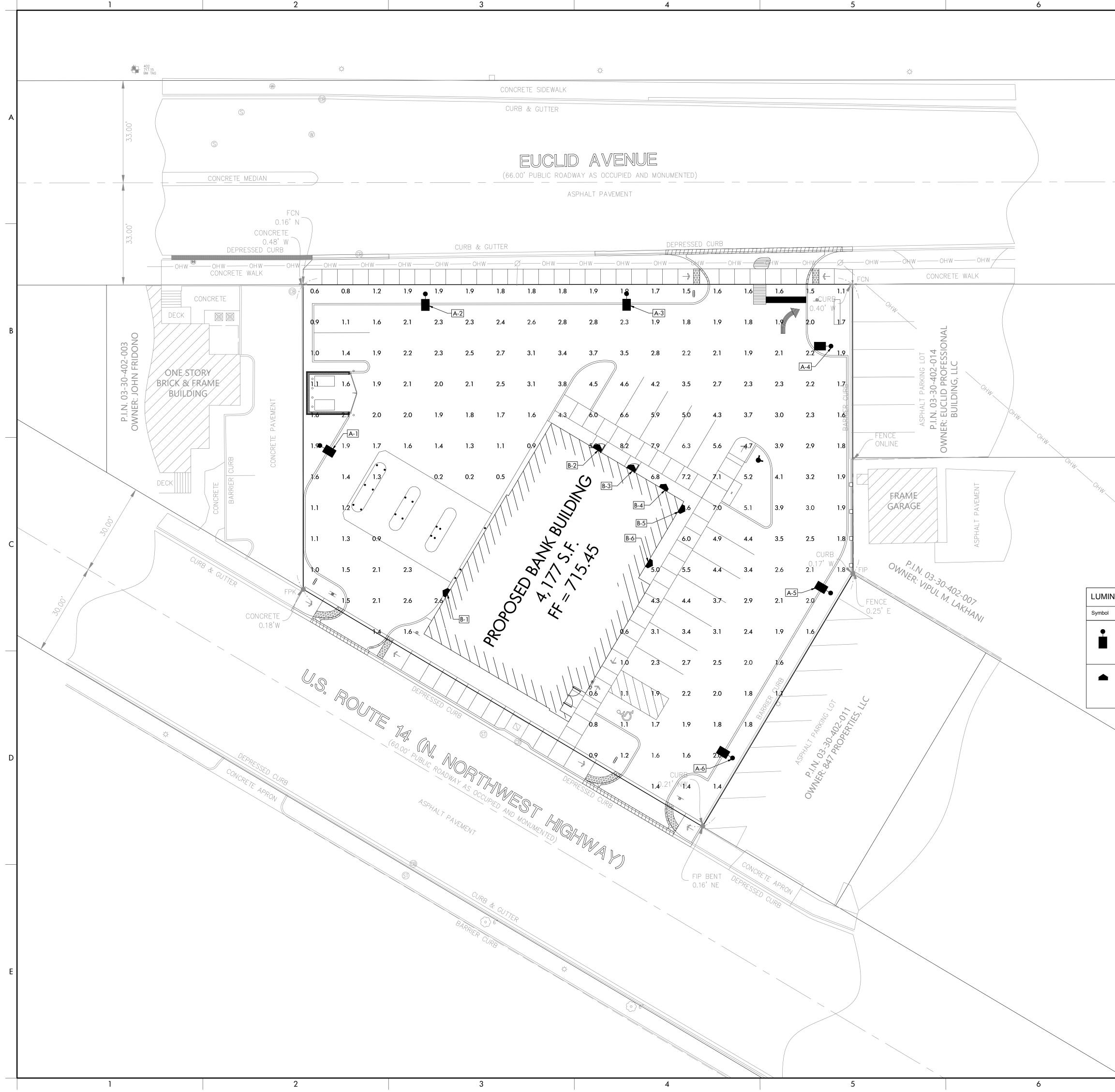
# In any case, the base course and/or the binder course

#### The CONTRACTOR shall furnish and apply painted where shown on the PLANS. Paint shall be as follow

#### 1. A-A-2886A Paint, Traffi TT-P-85E

# 1. AASHTO M248 Ready-Mixe

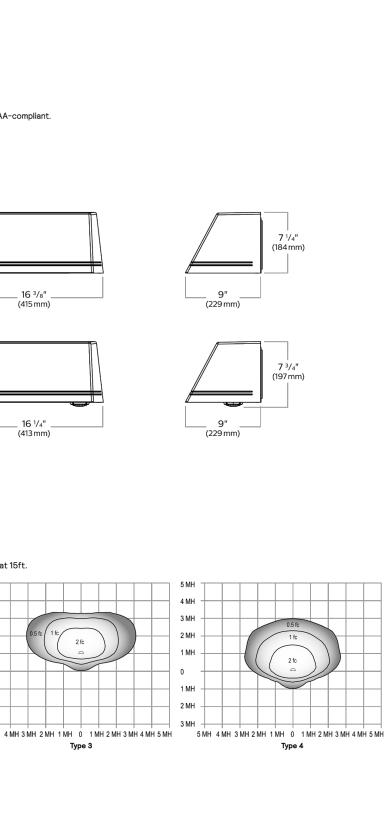
	6 7 8					
Ш. sta	ROADWAY AND PARKING LOT IMPROVEMENTS					]
Worl	a shall be completed in accordance with the applicable sections of the Standard Specifications for Road and e Construction, Department of Transportation, State of Illinois, latest edition.					
6 <u>SUB</u>	GRADE PREPARATION					
	CONTRACTOR shall be responsible for all subgrade compaction and preparation to ±0.1-foot of the proposed rade elevation with the average subgrade elevation to be within ±0.02-feet of the proposed subgrade grade tion.					
BITU	MINOUS BASE COURSE	IONS	REVISED PER VILLAGE REVIEW	cle Parking Village review	VILLAGE REVIEW PERMIT	
great		EVIS	ILAGE F	ADDED BICYCLE PARKING REVISED PER VILLAGE REVI	LLAGE F RMIT	
Com	GREGATE BASE COURSE TYPE 'B' practed aggregate base course type "B" shall be constructed using IDOT Type CA6 materials and shall be	~	O PER VI	BICYCL D PER VI	REVISED PER VILLAG	
· '	d where shown on the PLANS. IMINOUS CONCRETE, BINDER AND SURFACE COURSE		REVISE	ADDED BICY REVISED PER	REVISED PER	
comp	inous pavement shall consist of bituminous concrete binder and surface courses (IDOT) Class I, to the acted thickness as shown on the PLANS. The base course shall be cleaned and primed in accordance with the		1-22	7-21 5-21	0-21 7-91	-
cours conci	DICTIONAL GOVERNING ENTITY. The bituminous concrete surface course shall be placed after the base e has gone through one winter season, as directed by the CLIENT. Prior to the placement of the bituminous rete surface, the JURISDICTIONAL GOVERNING ENTITY shall examine the completed pavement, including curb			12-27-21 12-16-21		-
	gutter, and all failures shall be corrected by the CONTRACTOR.		5	4 0	4	
thicke	rete sidewalks shall be constructed to width and thickness as shown on the PLANS. Sidewalks shall be ened to a minimum of 8" at all driveways. All sidewalks shall be IDOT Class SI concrete, on aggregate base as	<b>ASULTANTS</b>	AVENUE	, Illinois 60634 2) 637-9570 12) 637-9454	o@civworks.com w.civworks.com	
	n on the detail. A ¾" expansion joint shall be provided when meeting existing sidewalk. B AND GUTTER		NEVA /	, ILLINC 2) 637- 12) 637		
	and gutter shall be as per the detail shown on the PLANS, which shall include compacted aggregate base e under the curb and gutter. All contraction and expansion joints shall be constructed as per the detail.	T CO	3343 N.	CHICAGO Ph: (31 Fax: (3]	mail: inf Veb: ww 15 PROFESSION	
	NCRETE PAVEMENTS	DEVELOPMENT	с С	5		┥
cours aggre	rete pavements shall be constructed as shown on the PLANS. Slabs shall be constructed on an aggregate base e Type B. Driveway entrance aprons shall be constructed with 6"x6" - W2.9xW2.9 welded wire fabric on an egate base course Type B. The CONTRACTOR shall sawcut joints in concrete pavements immediately after	/ELOF	S	3		
	NCRETE CURB REMOVAL AND REPLACEMENT			Ý	<u> </u>	
curb	CONTRACTOR shall saw cut and remove the existing concrete curb where shown on the PLANS and install a of similar cross section and pavement to that removed (or depressed curb and gutter if shown on the PLANS).	NERS	(	5	, L	
conci er shall	completion of the curb all voids, if any, between the existing pavement and the new curb shall be filled with rete to within 2" of the final surface, which is to be filled with bituminous pavement. The area behind the curb be filled and compacted with embankment material within 6" of the top of the new curb. The CONTRACTOR	PLANNER			<u>י</u> סר	Ē
d conne drille	then restore the remaining 6" to its original condition (i.e., sod, gravel, topsoil). Where proposed curb ects to an existing curb, the existing curb shall be saw cut and then two 18" long x ¾" (#6) dowel bars shall be d and installed 9" into the existing and proposed curb. Bars shall be installed in a location similar to the					
	OF ROLLING	engineers		>	SU	
GOV	CONTRACTOR shall provide a fully loaded vehicle, size approved by the CLIENT or JURISDICTIONAL ERNING ENTITY if required. Proof rolling shall be observed by the CLIENT and JURISDICTIONAL		ſ		u O	
comp	ERNING ENTITY. It shall be at the CLIENT's option which of the following methods of proof rolling is to be leted:	CIVIL		ノ	Ŭ	
v	the base course is proof-rolled and passes, then the binder course and the surface course may be placed vithout further proof rolling.				<b>-</b> †	
a	the binder course is placed it will be proof-rolled when the CLIENT requests and the surface course shall not be pplied until the binder course passes a proper proof rolling. y case, the base course and/or the binder course shall be repaired before proceeding to the next step.				-	
	EMENT MARKING - PAINT					
	CONTRACTOR shall furnish and apply painted marking lines, letters & symbols of the patterns, sizes and colors e shown on the PLANS. Paint shall be as follows:					
e Fe	deral SPECIFICATIONS and Standards:				24	(
٨	1. A-A-2886A Paint, Traffic, Solvent Based (supercedes FS TT-P-85E and FS-TT-P-115F, Type I). merican Association of State Highway and Transportation (AASHTO)				000	
A	1. AASHTO M248 Ready-Mixed White and Yellow Traffic Paints				IL 6(	
	EMENT MARKING - THERMOPLASTIC				IS,	
the p	atterns, sizes and colors where shown on the PLANS. Thermoplastic pavement marking shall be installed in dance with the IDOT Standard Specifications.				НС	
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and h losses	e fullest extent permitted by law, the CONTRACTOR shall waive any right of contribution and shall indemnify nold harmless the ENGINEER, its agents, employees and consultants from and against all claims, damages, and expenses, including but not limited to, attorneys' fees and economic or consequential damages, f or resulting from or in connection with the performance of their work. However, this indemnity agreement	1 Ō	A C	/EL(	<u>Ю</u> Z	
shall	t or resulting from or in connection with the performance of their work. However, this indemnity agreement not require the CONTRACTOR to indemnify the ENGINEER, it s consultants, agents or employees against its negligence.	E E	IFIC	DEV	ARLI	
not b	ns, damages, losses and expenses as these words are used in the Agreement shall be construed to include, but e limited to (1) injury or damage consequent upon the failure of or use or misuse of any hoist, rigging, ing, scaffolding or any and all other kinds of items of equipment, whether or not the same be owned, furnished		Ы	۲× ا	۲, ⊿	,
or loo provi	aned by the CONTRACTOR; (2) all attorneys' fees and costs incurred in bringing an action to enforce the sions of this indemnity or any other indemnity; and (3) time expended by the party being indemnified and their byees, at their usual rates plus costs or travel, long distance telephone and reproduction of documents.	Q	SPI	A	XA)	
Only agree	to the extent necessary to prevent this provision from being void under Statute 740 ILCS 35/1, this indemnity ement shall not require the CONTRACTOR to indemnify the ENGINEER, its consultants, agents or employees			D B,	λΗζ	
agair	JRANCE	<b>V</b>	ILE	SED	HIGHW	
CON any c	TRACTOR will purchase insurance to protect the ENGINEER and its consultants, agents, and employees from laims for bodily injuries or property damage arising out of the construction work, including but not limited to	山	AT	PC	ST	
CON	ng the ENGINEER and its consultants, agents and employees as additional named insureds under the TRACTOR'S general liability policy applicable to the project, which must contain a clause stating that it is ary coverage for the ENGINEER with ENGINEER'S other applicable coverage to be considered excess.	近	DE	PRC	МE	
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The E	NGINEER is intended to be a third party beneficiary of the construction contract.				<b>IOF</b>	
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		NOTES: 1. 3500 PSI MIN. 60 REINFORCING 2. IF WATER IS PR 3. FOUNDATION EX PROPERLY COME 4. FOUNDATION SH 2000 PSF. 5. FOUNDATION HA MINIMUM COHESI 6. FOUNDATION HA MINIMUM LATERA 1.8.2C(4) OF "E 7. EXPOSED CONCI	NUT LOCKING WASHER BASE PL SPECIFIC NON-SHRINK GR THICKNESS 2" M WITH SIDES SLOF ETAIL C 28 DAY COMPRESS STEEL. 28 DAY COMPRESS STEEL. 29 DAY COMPRESS STEEL. 29 DAY COMPRESS STEEL. 20 DAY COMPRESS STEEL. 29 DAY COMPRESS STEEL. 20 DAY COMPRESS STEEL. 28 DAY COMPRESS STEEL. 29 DAY COMPRESS STEEL. 20 DAY COMPRESS STEEL. 20 DAY COMPRESS STEEL. 29 DAY COMPRESS STEEL. 20	1/4" BOLT ROJECTION ATE PER ATIONS OUT 1 1/4"MIN. AX. THICKNESS YED AT 45" IVE STRENGTH CON EMOVE BEFORE PO EMOVE BEFORE PO EMOVE BEFORE PO EMOVE BEFORE PO EMOVE BEFORE PO EMOVE BEFORE PO FOR A COHESIVE S POR A GRANULAR OF 1000 PSF, UTI TS WITH OVERTURN HALL BE PAINTED	CONDUIT REQUIRE 5/8''X 10' COPPE GROUND ROD CON TO EQUIPMENT GF WIRE AT GROUND IN POLE ICRETE WITH GRAD URING CONCRETE. N UNDISTURBED O D BEARING OF SOIL BASED ON A SOIL BASED ON A	D BARS RWELD INSTALLATION INECTED REQUIRES CC OUND EXPANSION J LUG ALL AROUND, SEALER PER E <u>SECTION A-A</u> R	AL	SCALE:	BY: OP JE DATE: 09-21-2021 1"=30' IEET NO. HIGO

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B B B Charter for and CARA Mindee per luminaire. Sold Separately: Unit to Roam; Unit to D TL DLI. DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATUD DATU	A Specifications EPA: 1.01 ft ² (0.09 m ² ) Length: 33" (83.8 cm) Width: 13" (33.0 cm) Height: 7-1/2" (190 cm) Weight 27 lbs	LED Area Luminaire	Number           Notes           Type           Tet the lab lay or mouse over the page to see all interactive elements.           Comparison of the page to see all interactive elements.           Comparison of the page to see all interactive elements.           Comparison of the page to see all interactive elements.           Comparison of the page to see all interactive elements.           Comparison of the page to see all interactive elements.           Comparison of the page to see all interactive elements.           Comparison of the page to see all interactive elements.           Comparison of the page to see all interactive elements.           Comparison of the page to see all interactive elements.           Comparison of the page to see all interactive elements.           Comparison of the page to see all interactive elements.           Comparison of the page to see all interactive elements.           Comparison of the page to see all interactive elements.           Comparison of the page to provide consistent color appearance and system-level interoperability.           Comparison of the page to provide consistent color appearance and system-level interoperability.           Comparison for luminaire is part of an A+ Certified background.           DTL DLL equipped luminaires meet the A+ specification for ROAM® or XPoint™ Wireless control networks, providing out-of-the-box control compatibility with simple commissioning, when ordered with drivers and control options mark	<section-header><section-header><section-header><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header>
PIRIFG3V Bi-level, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc ^{5,15,16} One Lithonia Way • Conyers, Georgia 30012 • Phone: 800.279.8041 • www.lithonia.com © 2011-2018 Acuity Brands Lighting, Inc. All rights reserved. One Lithonia Way • Conyers, Georgia 30 © 2011-2018 Acuity Brands Lighting, Inc. All rights reserved. One Lithonia Way • Conyers, Georgia 30 © 2011-2018 Acuity Brands Lighting, Inc. All rights reserved. One Lithonia Way • Conyers, Georgia 30 © 2011-2018 Acuity Brands Lighting, Inc. All rights reserved. One Lithonia Way • Conyers, Georgia 30 © 2011-2018 Acuity Brands Lighting, Inc. All rights reserved.	B Control options Shipped installed NLTAIR2 NLight AIR generation 2 ena PER NEMA twist-lock receptacle only DKG 0-10V dimming extend out DS Dual switching ^{13,14} PIR Bi-level, motion/ambient se PIRH Bi-level, motion/ambient se PIRH Bi-level, motion/ambient se	Color temperature       Distribution         P7       30K       3000 K       T1S       Type I short       T5S       Type V         P8       50K       5000 K       T2M       Type III short       T5W       T5W       Type V         P9       AMBPC       Amber phosphor converted ² T3S       Type III medium       TSW       TSW       T9E V         T4M       Type IV medium       T4M       Type IV medium       TCCO       Left control         TFTM       Forward throw medium       TSVS       Type V very short       ICCO       Left control         abled ¹⁰ e only (controls ordered separate) ¹¹² senabled at 1fc ^{2,516/4} BL30       Bi-level switched de BL50       Bi-level switched de BL50 <th>of one ROAM node per luminaire. Sold Separately: Link to Roam; Link to DTL DLL       MPLE: DSX1 LED P7 40K T3M MVOLT SPA DDBXD       Municipation       Voltage       Voltage     Mounting       Vshort     120 %     Shipped included       Vwide     208 %     Shipped included       2012     240 %     SPA     Square pole mounting       0123     240 %     WBA     Wale pole universal mounting adaptor %       0124     347 %     Shipped separately       KMA&amp; DDBXD U       Mast arm mounting bracket adaptor       05 %     Shipped installed       127     Shipped installed       128     F     Single fuse (120, 277, 347V) %       129     Left rotated optics 1     DBXD       1104     190 Left rotated optics 1     DBXD       11104     190 Left rotated optics 1     NAXD       11104     190 Left rotated optics 1     BDXD       11104     190 Left rotated optics 1     BUND D       11104     Shipped separately     Bit Bit motated optics 1       11104     190 Left rotated optics 1     BUND D       11104     190 Left rotated optics 1     BUND D       11104     Sitipped separately     BUND D       11104     Bit optikes²²</th> <th>Image: Constraint of the constraint</th>	of one ROAM node per luminaire. Sold Separately: Link to Roam; Link to DTL DLL       MPLE: DSX1 LED P7 40K T3M MVOLT SPA DDBXD       Municipation       Voltage       Voltage     Mounting       Vshort     120 %     Shipped included       Vwide     208 %     Shipped included       2012     240 %     SPA     Square pole mounting       0123     240 %     WBA     Wale pole universal mounting adaptor %       0124     347 %     Shipped separately       KMA& DDBXD U       Mast arm mounting bracket adaptor       05 %     Shipped installed       127     Shipped installed       128     F     Single fuse (120, 277, 347V) %       129     Left rotated optics 1     DBXD       1104     190 Left rotated optics 1     DBXD       11104     190 Left rotated optics 1     NAXD       11104     190 Left rotated optics 1     BDXD       11104     190 Left rotated optics 1     BUND D       11104     Shipped separately     Bit Bit motated optics 1       11104     190 Left rotated optics 1     BUND D       11104     190 Left rotated optics 1     BUND D       11104     Sitipped separately     BUND D       11104     Bit optikes ²²	Image: Constraint of the constraint
Wall Mount       Init LED Wall Sconce	C	ensor, 8-15' mounting height, ambient sensor enabled at 1fc ^{515,16} © 2011-2018 Acuity Brands Lighting, Inc. All rights reserved.	• www.lithonia.com	One Lithonia Way • Conyers, Georgia 30012 • Otali Acuity Brands Lighting, Inc. All rights
Image: Description of the second of the	D Gardco 101 LED of flexibility in high usable illumination and architectura and 4 distribution control options in Emergency Batton D Ordering guide Prefix 101L 101L LED Wall Sconce	Unit         Wall sconces feature a low-profile design that provides performance exterior wall illumination. Full cutoff performance exterior wall illumination. Full cutoff performance exterior wall wattages combine into a contally pleasing design. 101L sconces are available in Type 2 ons, and provide output of up to 12,000 lumens. Energy increase energy savings and offer California Title 24 contery Backup option available for path of egress.         Number of LEDs       Drive Current       LED Color - Generation         16L       1000       W-G2       Cool White 5000K, 70 Generation 2         16L       16 LEDs (1 module)       200       200 mA       CW-G2       Cool White 5000K, 70 Generation 2         16L       1000       1000 mA       CW-G2       Neutral White 4000K 70 CRI Generation 2         1700       700mA       1000       1000mA       W-G2       Warm White 3000K, 70 CRI Generation 2         120       1200 I200mA       W-G2       Warm White 3000K, 70 CRI Generation 2       W-G2       Warm Yellow 2700K, 80 CRI Generation 2         121       32 LEDs (2 module)       530       530 mA       Bu-G2       Balanced White 300ZH	s wide formance, mpact 2, 3, saving compliance.	Mounting accessories         Wall Mount         WS       Wall Mounted Box for Surface Conduit         1. Consult Signify to confirm whether specific accessories are BAA-compliant.         Dimensions         Image: Construction of the system of the syst
Fight Agriculture Sector 20 Partner: Automatic Profile Dimming. Thorus Birds With motion analysis for the protocol and the sector 20 Partner and dimming. Thorus Birds With motion analysis for the protocol and the sector 20 Partner and dimming. Thorus Birds With motion analysis for the protocol and the sector 20 Partner and dimming. Thorus Birds With analysis for the protocol and the sector 20 Partner a	E 1. Only 16L up to 700mm battery backup (EBP 2. Extended lead times for details. 3. Available with to 5. Not available with to 5. Not available with to	Motion Sensing lens       Photo-sensing         rnal dimming (others) ⁴ IMRI2       Integral with #2 lens ¹⁰ (Control ^{4.5.6.9} )       IMRI3       Integral with #2 lens ¹⁰ (control ^{4.5.6.9} )       IMRI3       Integral with #3 lens ¹⁰ (cic Profile Dimming, 7 hours       IMRI3       Integral with #3 lens ¹⁰ % Dimming, 7 hours       Forming, 8 hours       Forming, 8 hours         % Dimming, 8 hours       7. Not available in 347 or 480V.         % Dimming, 8 hours       8. Must specify input voltage.         9. Available with two modules (32L) at 530m.         77V only.       10. Not available with DD, DCC, and FAWS diming.         77V only.       11. Must specify a motion sensor lens. Limited ambient if combined with 32L-1000mA (10	Electrical       Finish         Partial       Partial         Partial       Partia         Partial	LED Wall Sconce 101L       Weight         Luminaire       13.5 lbs         Luminaire - EBPC (EM battery pack)       17.0 lbs         Optical Distributions       Based on configuration 101L-32L-530-NW-G2 (52W) mounted at 15ft.         4MH       4MH         9       10         10       10         10       10         10       10         10       10         10       10         10       10         10       10         10       10         10       10         10       10         10       10         10       10         10       10         10       10         10       10         10       10         10       10         10       10         10       10         10       10         10       10         10       10         10       10         10       10         10       10         10       10         10       10         10       10
101L 10/21 page 1 of 5         101L 10/21 page 2 of 5	101L 10/21 page 1 of 5	1	2	1

	4						5						6	)		
uires 120V, 277V or 347V. Double fuse (DF) re or P10. Not available with BL30, BL50 or PNN only. Available as a separate combination ac	≥ or P13. ) H2). 0V, 347V, 480V or MVOLT. It is only available in 120V or 277V specified. quires 208V, 240V or 480V. IT options. essory, for retrofit use only: PUMBA (finish) U; 1.5 G vibration load rating per ANCI C136.31.			I <b>tput</b> from photom ry for perform	etric tests pe		ccordance with IESNA LM rations not shown here.	I-79-08. Data is considered 30K	d to be representat	iive of the configur	rations shown, with	nin the tolerances al		АМВРС		
th PIRHN. Ind shipped as a separate line item from Acui uired, it must be ordered and shipped as a se	te accessory; see Accessories information. For use with 2-3/8" mast arm (not included). In Brands Controls. See accessories. Not available with DS option. Shorting cap included. parate line item from Accuty Brands Controls. Not available with DCR. Node with integral dimming. Shorti	ng cap included.	LED Count	Drive Current	Power Package	Watts	Type Lumens T1S 6,457	8000 K, 70 CRI) B U G LPW 2 0 2 120	Lumens B	, 70 CRI) U G LPW O 2 129	(5000) Lumens B 7,044 2	K, 70 CRI) U G LPW 0 2 130	Lumens	r Phosphor Co B U 1 0	G	LPW 70
ely switched circuits. ensor table on page 3. s on page 3 to see functionality. th NLTAIR2. For more information on nLight / 47V, 480V, PNMT, DS. For PER5 or PER7, see 47V, 480V, DS, BL30, BL50. For PER5 or PER7 ther dimming controls options	PER Table on page 3. Requires isolated neutral. , see PER Table on page 3. Separate Dusk to Dawn required. able as a separate accessory; see Accessories information.		30	530	P1	54W	T2S         6,450           T2M         6,483           T3S         6,279           T3M         6,468           T4M         6,327           TFTM         6,464           T5VS         6,722           T5S         6,728           T5M         6,711           T5W         6,667           BLC         5,299           LCCO         3,943           RCCO         3,943	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	6,984         2           6,764         2           6,967         1           6,963         1           7,242         3           7,248         2           7,182         3           5,709         1           4,248         1	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	4,302 1	0         2         131           0         0         136           0         1         136           0         2         136           0         2         136           0         2         136           0         2         136           0         2         135           0         2         107	3,758 3,701 3,928 3,881 3,930	1     0       1     0       1     0       1     0       1     0       2     0       2     0       3     0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	73 71 72 72 72 72 72 72 73 75 76 73
12.05	unting Slipfitter **		30	700	P2	70W	T1S         8,249           T2S         8,240           T2M         8,283           T3S         8,021           T3M         8,263           T4M         8,083	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	8,886         2           8,877         2           8,923         2           8,641         2           8,901         2           8,903         2           8,904         2           9,708         2           9,252         3           9,259         3           9,236         3           9,175         4           7,293         1	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	8,999         2           8,989         2           9,036         2           8,751         2           9,014         2           8,818         2           9,008         2           9,369         3           9,376         3           9,353         3           9,291         4	0         2         129           0         2         128           0         2         129           0         2         129           0         2         129           0         2         129           0         2         129           0         2         129           0         2         129           0         0         134           0         2         133           0         2         106	4,777 4,622 4,724 4,701 4,709 4,638 4,922 4,863 4,924	1     0       1     0       1     0       1     0       1     0       1     0       2     0       2     0       3     0	1 2 1 2 2 2 0 0 1	67 70 68 69 69 69 69 72 72 72 72 72 72
ole drilling nomenclature: # o       DM19AS     DM28AS       1 @ 90°     2 @ 280°	30         AST20-290         AST20-320         AST20-390         AST20-490           30         AST25-290         AST25-320         AST25-390         AST25-490           30         AST35-290         AST35-320         AST35-390         AST35-490           Stats           29AS         DM32AS         DM39AS         DM49AS           90°         3 @ 120°         3 @ 90°         4 @ 90°           B & C         Round pole only         Side B, C, & D         Sides A, B, C, D           cific nomenclature         Side S, C, & D         Sides A, B, C, D		30	1050	Ρ3	102W	RCC0         5,038           T1S         11,661           T2S         11,648           T2M         11,708           T3S         11,339           T3M         11,680           T4M         11,426           TFTM         11,673           T5S         12,150	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5,427         1           12,562         3           12,543         3           12,613         2           12,215         3           12,582         2           12,575         2           13,078         3           13,089         3           13,056         4           12,970         4           10,310         1           7,671         1	0         2         78           0         3         123           0         3         123           0         2         124           0         3         120           0         2         124           0         3         121           0         3         123           0         3         123           0         1         128           0         1         128           0         2         128           0         3         127           0         2         101           0         3         75	5,496         1           12,721         3           12,777         3           12,773         2           12,370         3           12,742         2           12,744         2           13,244         3           13,254         3           13,221         4           13,134         4           10,440         1           7,768         1	0         2         79           0         3         125           0         3         125           0         2         125           0         3         121           0         2         125           0         3         122           0         3         122           0         3         122           0         3         125           0         1         130				
K SPA Y K RPA Y K SPUMBA Y K RPUMBA N	Y     Y     N     -     -     -       Y     N     N     Y     Y     Y       N     N     -     -     -       N     N     Y     Y     Y       N     N     Y     Y     Y       *3 fixtures @120 require round pole top/tenon.	e.	30	1250	P4	125W	T2S         13,421           T2M         13,490           T3S         13,064           T3M         13,457           T4M         13,165           TFTM         13,449           TSVS         13,987           TSS         13,999           T5M         13,963           TSW         13,872           LCCO         8,205	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	14,458         3           14,532         3           14,074         3           14,477         2           14,482         2           14,488         2           15,068         4           15,080         3           15,042         4           14,924         4           11,879         1           8,839         1	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	14,641         3           14,716         3           14,252         3           14,681         2           14,362         2           14,672         2           15,259         4           15,271         3           15,133         4           12,029         1           8,951         1	0         3         117           0         3         117           0         3         118           0         2         117           0         3         118           0         2         117           0         3         115           0         3         117           0         1         122           0         1         122           0         2         122           0         3         121           0         2         96           0         3         72           0         3         72				
ounting height (25').	test No. 1712322 test and test	Test No. LTD22271 tested in accordance with IESNA LM-79-08.	30	1400	P5	138W	T1S         14,679           T2S         14,664           T2M         14,739           T3S         14,274           T3M         14,704           T4M         14,384           TFTM         14,695           T5SS         15,283           T5S         15,285           T5M         15,257           T5W         15,178           BLC         12,048           LCCO         8,965	0         3         66           3         0         3         106           3         0         3         106           3         0         3         106           3         0         3         106           3         0         3         107           3         0         3         103           2         0         3         104           2         0         3         106           4         0         1         111           3         0         1         111           4         0         2         111           4         0         2         87           1         0         2         87           1         0         3         65           1         0         3         65	15,814         3           15,797         3           15,878         3           15,870         3           15,840         3           15,840         3           15,840         3           16,864         4           16,464         4           16,453         4           16,283         4           12,297         1           9,657         1	0         3         115           0         3         114           0         3         115           0         3         111           0         3         115           0         3         115           0         3         112           0         3         115           0         3         115           0         1         119           0         1         119           0         2         119	16,014         3           15,997         3           16,079         3           15,572         3           16,040         3           15,692         3           16,672         4           16,686         4           16,634         4           16,534         4           13,143         1           9,780         1	0         3         116           0         3         116           0         3         117           0         3         113           0         3         116           0         3         114           0         3         116				
. Georgia 30012 • Phone: 800.2 ing, Inc. All rights reserved.	79.8041 • www.lithonia.com	DSX1-LED Rev. 03/21/18 Page 2 of 7		THO   GHT				iyers, Georgia 30012 Lighting, Inc. All rights		179.8041 • www	w.lithonia.com					DSX1-LED ev. 03/21/18 Page 4 of 7



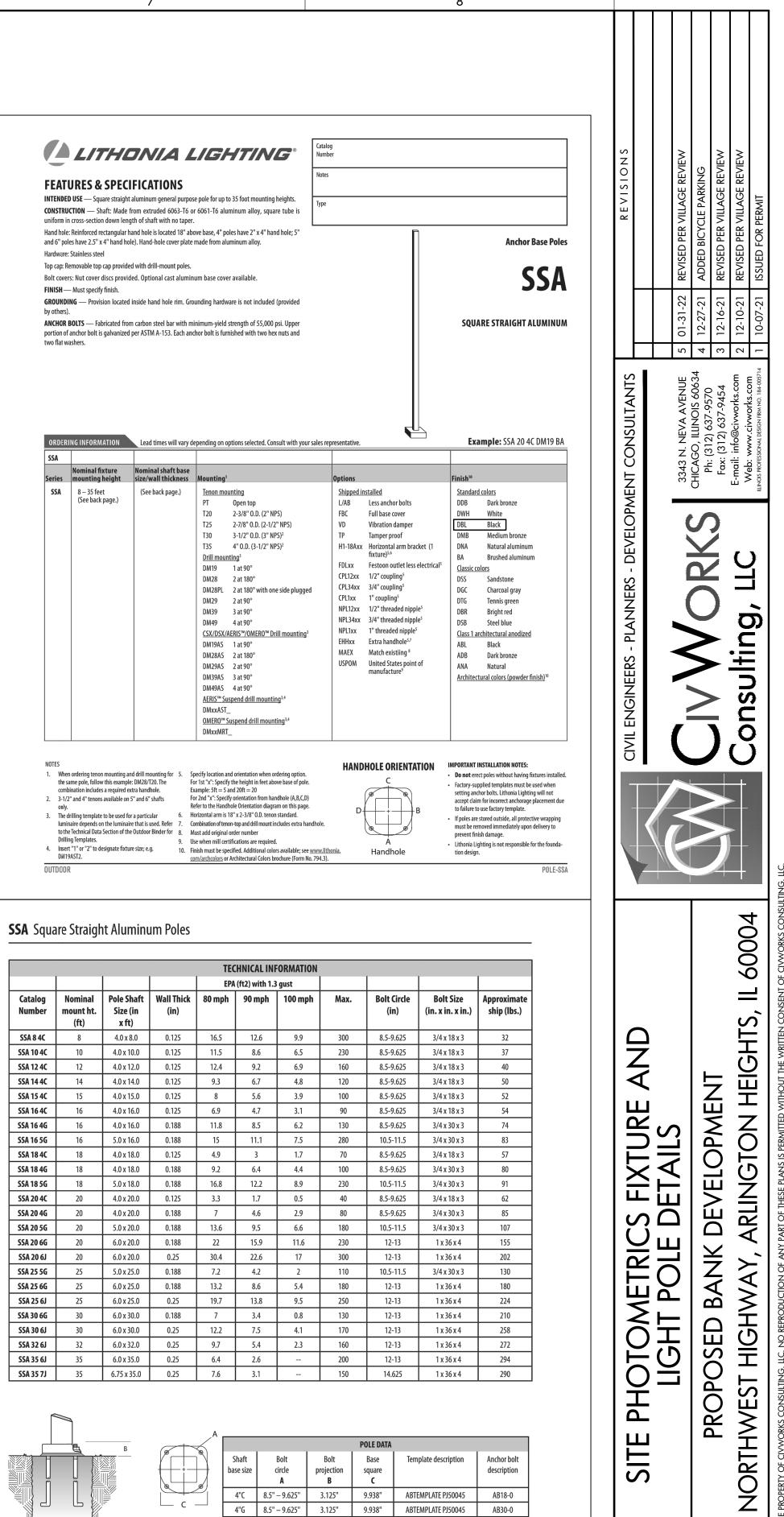
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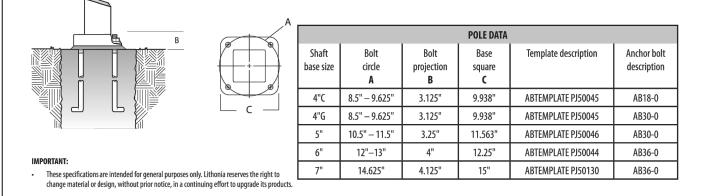
**101L** LED wall sconce

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Ordering Code	LED Qty	LED Current (mA)	Color Temp.	Average System Watts (W)	Туре 2				Туре З			Туре 4	
					m Lume Outp		y BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating
101L-16L-200-WW-G2-x	16	200	3000	12	148	8 124	B1-U0-G0	1358	113	B0-U0-G0	1388	116	B0-U0-
01L-16L-400-WW-G2-x	16	400	3000	22	284	0 129	B1-U0-G0	2592	118	B1-U0-G1	2650	120	B1-U0-
01L-16L-530-WW-G2-x	16	530	3000	28	343	9 122	B1-U0-G0	3138	112	B1-U0-G1	3208	114	B1-U0-
01L-16L-700-WW-G2-x	16	700	3000	38	442	5 115	B1-U0-G1	4038	105	B1-U0-G1	4129	108	B1-U0-
101L-16L-1000-WW-G2-x	16	1000	3000	55	589	9 108	B2-U0-G1	5383	98	B1-U0-G2	5502	100	B1-U0-
101L-16L-1200-WW-G2-x	16	1200	3000	66	670	9 102	B2-U0-G1	6123	93	B1-U0-G2	6259	95	B1-U0-
101L-32L-530-WW-G2-x	32	530	3000	52	665	5 128	B2-U0-G1	6073	117	B1-U0-G2	6208	119	B1-U0-
101L-32L-700-WW-G2-x	32	700	3000	70	845	8 120	B2-U0-G1	I 7719	110	B1-U0-G2	7892	112	B1-U0-
101L-32L-1000-WW-G2-x	32	1000	3000	107	1144	.3 107	B3-U0-G2	2 10442	98	B2-U0-G2	10675	100	B2-U0
4000K LED Watta	ae and	Lumen Val	ues										
						Type 2			Type 3		Type 4		
Ordering Code	LED Qty	LED Current (mA)	Color Temp.	Average Syste Watts (W)	m Lume Outp	en Efficac		Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Ratin
01L-16L-200-NW-G2-x	16	200	4000	12	156	7 131	B1-U0-G0	1429	119	B0-U0-G0	1461	122	B0-U0-
01L-16L-400-NW-G2-x	16	400	4000	22	299	0 136	B1-U0-G0	2728	124	B1-U0-G1	2789	127	B1-U0
101L-16L-530-NW-G2-x	16	530	4000	28	362		B1-U0-G1		118	B1-U0-G1	3377	120	B1-U0
101L-16L-700-NW-G2-x	16	700	4000	38	465		B1-U0-G1		111	B1-U0-G1	4346	113	B1-U0-
101L-16L-1000-NW-G2-x	16	1000	4000	55	620		B2-U0-G1		103	B1-U0-G2		106	B1-U0-
01L-16L-1200-NW-G2-x	16	1200	4000	66	706		B2-U0-G1		98	B1-U0-G2		100	B1-U0-
101L-32L-530-NW-G2-x	32	530	4000	52	700		B2-U0-G1		123	B1-U0-G2		126	B1-U0-
101L-32L-700-NW-G2-x	32	700	4000	70	890		B2-U0-G1		116	B1-U0-G2		118	B2-U0-
101L-32L-1000-NW-G2-x	32	1000	4000	107	1204		B3-U0-G2		103	B2-U0-G2		105	B2-U0-
Ordering Code	LED Qty	LED Current (mA)	Color Temp.	Average Syste Watts (W)	m Lumo Outp			Lumen Output	Type 3 Efficacy (LPW)	BUG Rating	Lumen Output	Type 4 Efficacy (LPW)	BUC Ratir
101L-16L-200-CW-G2-x	16	200	5000	12	156		B1-U0-GC		119	B0-U0-G0		122	BO-UO-
101L-16L-400-CW-G2-x	16	400	5000	22	299		B1-U0-G0		124	B1-U0-G1	2789	127	B1-U0-
101L-16L-530-CW-G2-x	16	530	5000	28	362		B1-U0-G1		118	B1-U0-G1	3377	120	B1-U0-
101L-16L-700-CW-G2-x	16	700	5000	38	465		B1-U0-G1		111	B1-U0-G1	4346	113	B1-U0-
101L-16L-1000-CW-G2-x	16	1000	5000	55	620		B2-U0-G1		103	B1-U0-G2		106	B1-U0-
101L-16L-1200-CW-G2-x	16	1200	5000	66	706		B2-U0-G1		98	B1-U0-G2		100	B1-U0-
101L-32L-530-CW-G2-x	32	530	5000	52	700		B2-U0-G1		123	B1-U0-G2		126	B1-U0-
101L-32L-700-CW-G2-x	32	700	5000	70	890	_	B2-U0-G1		116	B1-U0-G2		118	B2-U0-
101L-32L-1000-CW-G2-x	32	1000	5000	107	1204	15 113	B3-U0-G2	2 10992	103	B2-U0-G2	11237	105	B2-U0-
LED Wattage and I	Lumen	Values (En	neraen	cv Mode)	Г	Avg. Syste	m Watts	Tyr	Lumen (	Outputs by O	ptic Type le 3	Tvi	be 4
Ordering Code		LED Qty	LED C	urrent	r Temp.	Normal Mode	Emergency Mode	Normal Mode	Emergency Mode		Emergency Mode	Normal Mode	Emerge
101L-16L-200-NW-G2-x-E	BPC	16			000	12	14	1567	1654	1429	1510	1461	1543
101L-16L-400-NW-G2-x-EBPC		16	4	00 4	000	22	14	2990	1654	2728	1510	2789	1543
101L-16L-530-NW-G2-x-EBPC		16	5	30 4	000	28	14	3620	1654	3303	1510	3377	1543
101L-16L-700-NW-G2-x-EBPC		16	70	00 4	000	38	14	4658	1654	4251	1510	4346	1543
/alues from photometric t environmental variables, L NOTE: Some data may be s	ED and discaled bas	river tolerances sed on tests of hed values are <b>ciation Dat</b>	s, and field similar (bu based on <b>ta</b> sturer's da	d measurement ut not identical) initial lumens. ata and enginee	considera luminaire ring desig	ations. It is hig s. Contact fac n estimates, b	hly recomment tory for conf	nded to con igurations r A LM-80 me	firm perfor ot shown. ethodology.				ation and
Predicted Lumen Predicted performance de							enormance	rehieciates	ιο /0% of				
Predicted Lumen Predicted performance de Actual experience may var nitial lumen output. Calcu	y due to f lated per	field application IESNA TM21-11.	Publishee	d L ₇₀ hours limit	ed to 6 tir	mes actual LE	) test hours	M-21		umon Mointe	nance % at 6	0 000 bra	
Predicted Lumen Predicted performance de Actual experience may var	y due to f lated per	field application	Publishee	d L ₇₀ hours limit Calcul		mes actual LE				umen Mainte 99%	nance % at 6	60,000 hrs	

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### LITHONIA LIGHTING® An **Acuity**Brands Company

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FIRST ISSUE DATE: 09-21-2021

SHEET NO.