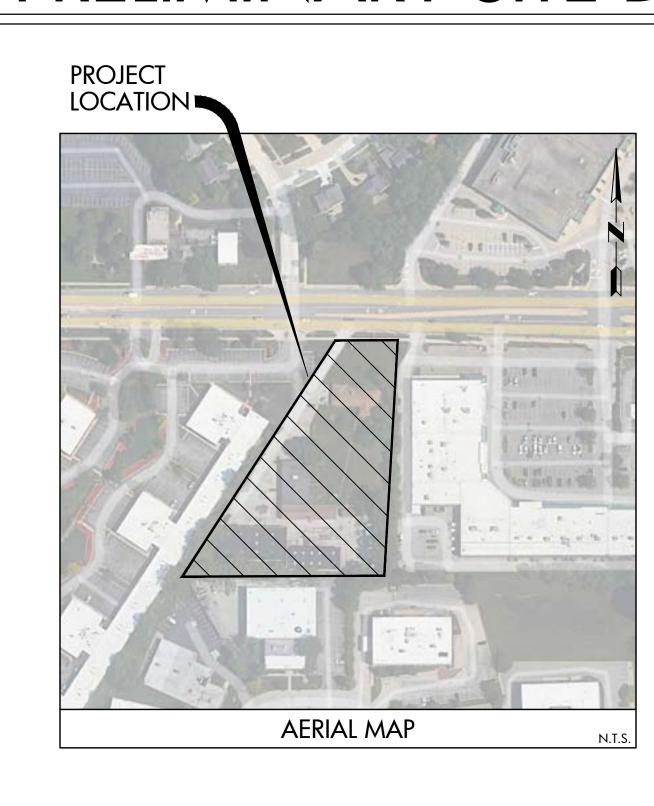
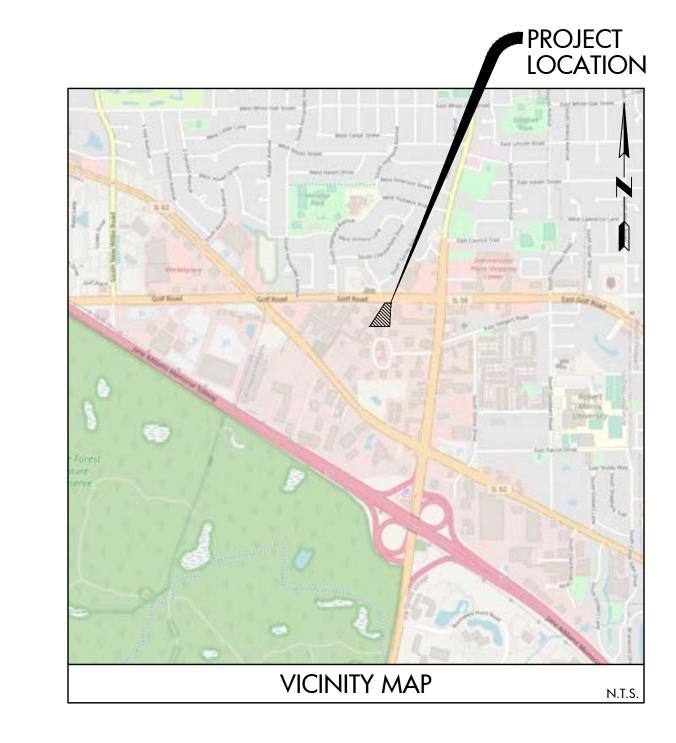
PROPOSED SELF STORAGE

401 W. GOLF ROAD ARLINGTON HEIGHTS, IL 60005

	LEGEND						
EXISTING	PROPOSED	DESCRIPTION					
×	* **	LIGHT STANDARD/DOUBLE LIGHT STANDARD					
⊗	•	WATER VALVE VAULT					
		WATER VALVE BOX					
Q	A	FIRE HYDRANT					
⊗	⊗ _w	BUFFALO BOX					
		SANITARY MANHOLE					
\triangleright	•	FLARED END SECTION					
		STORM INLET					
0	•	STORM CATCH BASIN					
<u> </u>	•	STORM MANHOLE					
•	•	CLEANOUT					
>	———	STORM SEWER PIPE					
(SANITARY SEWER PIPE					
DD	- >	COMBINED 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	WATER GRADE RING ELEVATION WATER STATION LOCATION					
615.90 606.20	615.90	STORM RIM ELEVATION STORM INVERT ELEVATION					
	(XX)	PROPOSED SANITARY STRUCTURE LABEL					
	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					
~-~~~	~~ ~	SWALE FLOW ARROW					
		DRAINAGE ARROW					
		OVERLAND FLOW					
<u></u>	764	1 FOOT CONTOURS					

PRELIMINARY SITE DEVELOPMENT PLANS





	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				
C4.1	CONTECH STORAGE SYSTEM TYPICAL DETAILS				
C4.2	CONTECH STORAGE SYSTEM INSPECTION AND MAINTENANCE GUIDELINES				
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				

DRAINAGE CERTIFICATE

TO THE BEST OF OUR KNOWLEDGE AND BELIEF, THE DRAIANGE OF SURFACE WATERS WILL NOT BE CHANGED BY THE PROPOSED DEVELOPMENT. IF ANY DRAINAGE PATTERNS WILL BE CHANGED, REASONABLE PROVISIONS HAVE BEEN MADE FOR THE COLLECTION AND DIVERSION OF SUCH SURFACE WATERS IN TO THE PUBLIC AREA, OR DRAINS APPROVED FOR THE USE BY THE MUNICIPAL ENGINEER, AND THAT SUCH SURFACE WATERS ARE PLANNED FOR IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES SO AS TO REDUCE THE LIKELIHOOD OF DAMAGES TO ADJOINING PROPERTIES.

DESIGN ENGINEER

			ABBRE	VIATI	ONS		
ADJ	ADJUST	E	ELECTRIC	MH	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	BACK TO BACK	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
ВМ	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	T	TELEPHONE
CLID	CLOSED LID	GAS	GAS	PROP.	PROPOSED	T-A	TYPE A
СМР	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	P	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.C.	DOWN SPOUT	AAB.	MAIIROV	DD	DAILDOAD	14/44	VA/ATED AAAINI

ACCESSIBLE CURB RAMP



CONTACT JULIE AT 811 OR 800-892-0123

48 HOURS (2 working days) BEFORE YOU DIG

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.



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HOLLADAY **PROPERTIES Building Solutions Since 1952**

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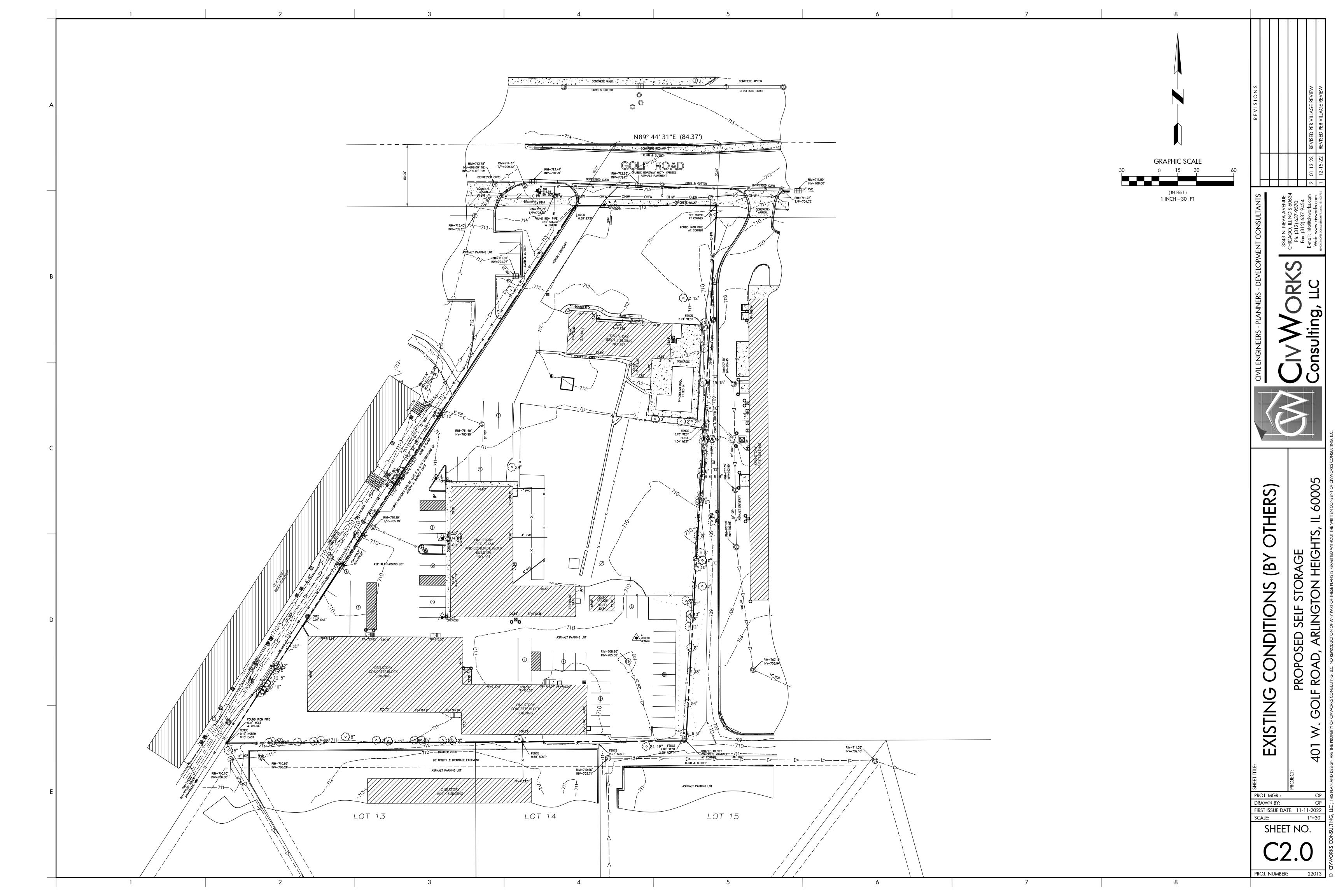
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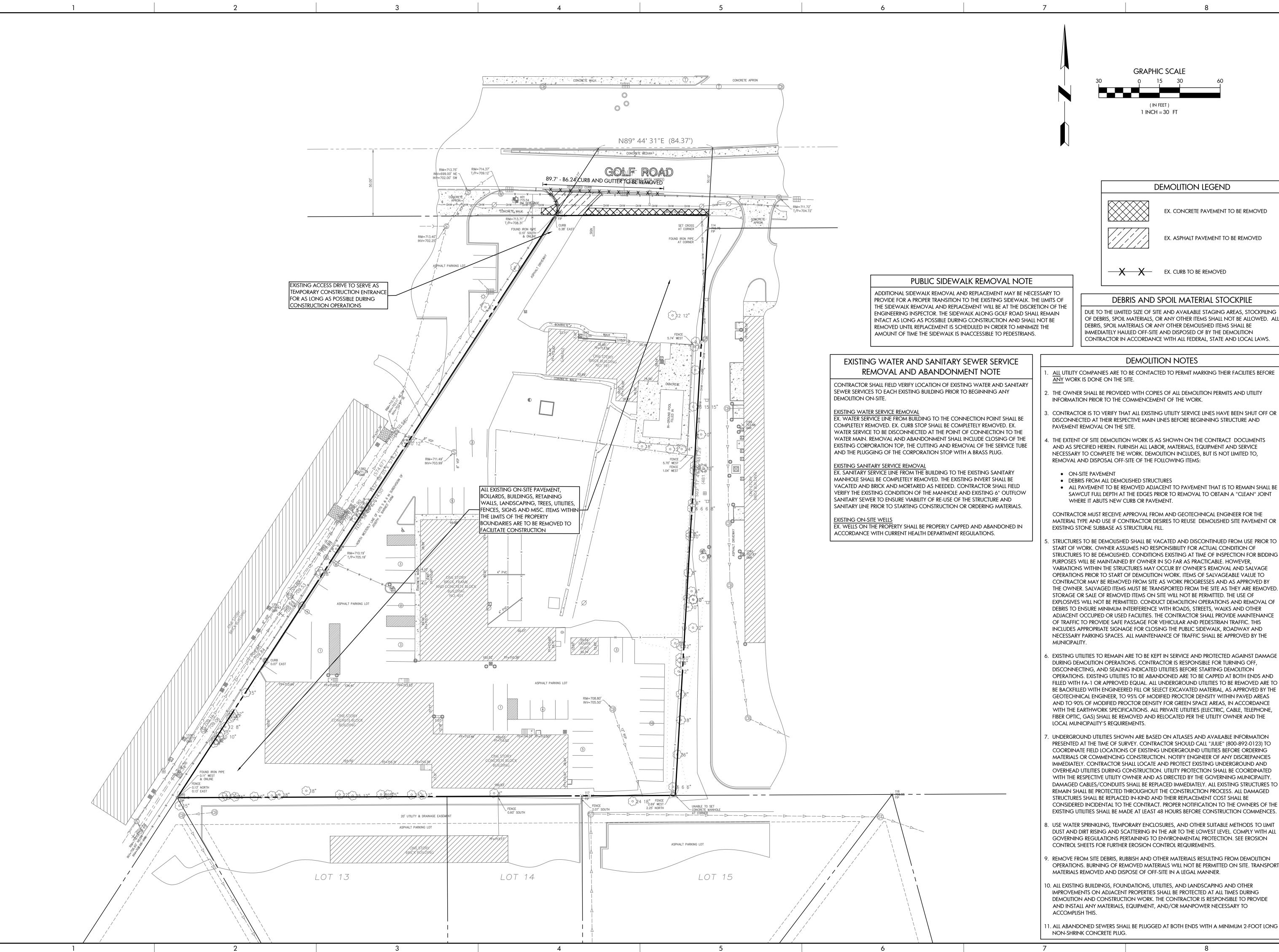
COVER

ENGINEERING

PROPOSED

FIRST ISSUE DATE: 11-11-2022





1 INCH = 30 FT

DEMOLITION LEGEND

EX. CONCRETE PAVEMENT TO BE REMOVED

EX. ASPHALT PAVEMENT TO BE REMOVED

DEBRIS AND SPOIL MATERIAL STOCKPILE

DUE TO THE LIMITED SIZE OF SITE AND AVAILABLE STAGING AREAS, STOCKPILING OF DEBRIS, SPOIL MATERIALS, OR ANY OTHER ITEMS SHALL NOT BE ALLOWED. ALL DEBRIS, SPOIL MATERIALS OR ANY OTHER DEMOLISHED ITEMS SHALL BE IMMEDIATELY HAULED OFF-SITE AND DISPOSED OF BY THE DEMOLITION

DEMOLITION NOTES

ALL UTILITY COMPANIES ARE TO BE CONTACTED TO PERMIT MARKING THEIR FACILITIES BEFORE

- THE OWNER SHALL BE PROVIDED WITH COPIES OF ALL DEMOLITION PERMITS AND UTILITY INFORMATION PRIOR TO THE COMMENCEMENT OF THE WORK.
- CONTRACTOR IS TO VERIFY THAT ALL EXISTING UTILITY SERVICE LINES HAVE BEEN SHUT OFF OR DISCONNECTED AT THEIR RESPECTIVE MAIN LINES BEFORE BEGINNING STRUCTURE AND
- THE EXTENT OF SITE DEMOLITION WORK IS AS SHOWN ON THE CONTRACT DOCUMENTS AND AS SPECIFIED HEREIN. FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND SERVICE NECESSARY TO COMPLETE THE WORK. DEMOLITION INCLUDES, BUT IS NOT LIMITED TO,
- DEBRIS FROM ALL DEMOLISHED STRUCTURES
- ALL PAVEMENT TO BE REMOVED ADJACENT TO PAVEMENT THAT IS TO REMAIN SHALL BE SAWCUT FULL DEPTH AT THE EDGES PRIOR TO REMOVAL TO OBTAIN A "CLEAN" JOINT WHERE IT ABUTS NEW CURB OR PAVEMENT.

CONTRACTOR MUST RECEIVE APPROVAL FROM AND GEOTECHNICAL ENGINEER FOR THE MATERIAL TYPE AND USE IF CONTRACTOR DESIRES TO REUSE DEMOLISHED SITE PAVEMENT OR

- START OF WORK. OWNER ASSUMES NO RESPONSIBILITY FOR ACTUAL CONDITION OF STRUCTURES TO BE DEMOLISHED. CONDITIONS EXISTING AT TIME OF INSPECTION FOR BIDDING PURPOSES WILL BE MAINTAINED BY OWNER IN SO FAR AS PRACTICABLE. HOWEVER, VARIATIONS WITHIN THE STRUCTURES MAY OCCUR BY OWNER'S REMOVAL AND SALVAGE OPERATIONS PRIOR TO START OF DEMOLITION WORK. ITEMS OF SALVAGEABLE VALUE TO CONTRACTOR MAY BE REMOVED FROM SITE AS WORK PROGRESSES AND AS APPROVED BY THE OWNER. SALVAGED ITEMS MUST BE TRANSPORTED FROM THE SITE AS THEY ARE REMOVED. STORAGE OR SALE OF REMOVED ITEMS ON SITE WILL NOT BE PERMITTED. THE USE OF EXPLOSIVES WILL NOT BE PERMITTED. CONDUCT DEMOLITION OPERATIONS AND REMOVAL OF DEBRIS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS AND OTHER ADJACENT OCCUPIED OR USED FACILITIES. THE CONTRACTOR SHALL PROVIDE MAINTENANCE OF TRAFFIC TO PROVIDE SAFE PASSAGE FOR VEHICULAR AND PEDESTRIAN TRAFFIC. THIS INCLUDES APPROPRIATE SIGNAGE FOR CLOSING THE PUBLIC SIDEWALK, ROADWAY AND NECESSARY PARKING SPACES. ALL MAINTENANCE OF TRAFFIC SHALL BE APPROVED BY THE
- . Existing utilities to remain are to be kept in service and protected against damage DURING DEMOLITION OPERATIONS. CONTRACTOR IS RESPONSIBLE FOR TURNING OFF, DISCONNECTING, AND SEALING INDICATED UTILITIES BEFORE STARTING DEMOLITION OPERATIONS. EXISTING UTILITIES TO BE ABANDONED ARE TO BE CAPPED AT BOTH ENDS AND FILLED WITH FA-1 OR APPROVED EQUAL. ALL UNDERGROUND UTILITIES TO BE REMOVED ARE TO BE BACKFILLED WITH ENGINEERED FILL OR SELECT EXCAVATED MATERIAL, AS APPROVED BY THE GEOTECHNICAL ENGINEER, TO 95% OF MODIFIED PROCTOR DENSITY WITHIN PAVED AREAS AND TO 90% OF MODIFIED PROCTOR DENSITY FOR GREEN SPACE AREAS, IN ACCORDANCE WITH THE EARTHWORK SPECIFICATIONS. ALL PRIVATE UTILITIES (ELECTRIC, CABLE, TELEPHONE, FIBER OPTIC, GAS) SHALL BE REMOVED AND RELOCATED PER THE UTILITY OWNER AND THE
- UNDERGROUND UTILITIES SHOWN ARE BASED ON ATLASES AND AVAILABLE INFORMATION PRESENTED AT THE TIME OF SURVEY. CONTRACTOR SHOULD CALL "JULIE" (800-892-0123) TO COORDINATE FIELD LOCATIONS OF EXISTING UNDERGROUND UTILITIES BEFORE ORDERING MATERIALS OR COMMENCING CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES IMMEDIATELY. CONTRACTOR SHALL LOCATE AND PROTECT EXISTING UNDERGROUND AND OVERHEAD UTILITIES DURING CONSTRUCTION. UTILITY PROTECTION SHALL BE COORDINATED WITH THE RESPECTIVE UTILITY OWNER AND AS DIRECTED BY THE GOVERNING MUNICIPALITY. DAMAGED CABLES/CONDUITS SHALL BE REPLACED IMMEDIATELY. ALL EXISTING STRUCTURES TO REMAIN SHALL BE PROTECTED THROUGHOUT THE CONSTRUCTION PROCESS. ALL DAMAGED STRUCTURES SHALL BE REPLACED IN-KIND AND THEIR REPLACEMENT COST SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. PROPER NOTIFICATION TO THE OWNERS OF THE EXISTING UTILITIES SHALL BE MADE AT LEAST 48 HOURS BEFORE CONSTRUCTION COMMENCES.
- . USE WATER SPRINKLING, TEMPORARY ENCLOSURES, AND OTHER SUITABLE METHODS TO LIMIT DUST AND DIRT RISING AND SCATTERING IN THE AIR TO THE LOWEST LEVEL. COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION. SEE EROSION
- REMOVE FROM SITE DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM DEMOLITION OPERATIONS. BURNING OF REMOVED MATERIALS WILL NOT BE PERMITTED ON SITE. TRANSPORT
- 0. ALL EXISTING BUILDINGS, FOUNDATIONS, UTILITIES, AND LANDSCAPING AND OTHER IMPROVEMENTS ON ADJACENT PROPERTIES SHALL BE PROTECTED AT ALL TIMES DURING DEMOLITION AND CONSTRUCTION WORK. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE AND INSTALL ANY MATERIALS, EQUIPMENT, AND/OR MANPOWER NECESSARY TO
- I. ALL ABANDONED SEWERS SHALL BE PLUGGED AT BOTH ENDS WITH A MINIMUM 2-FOOT LONG

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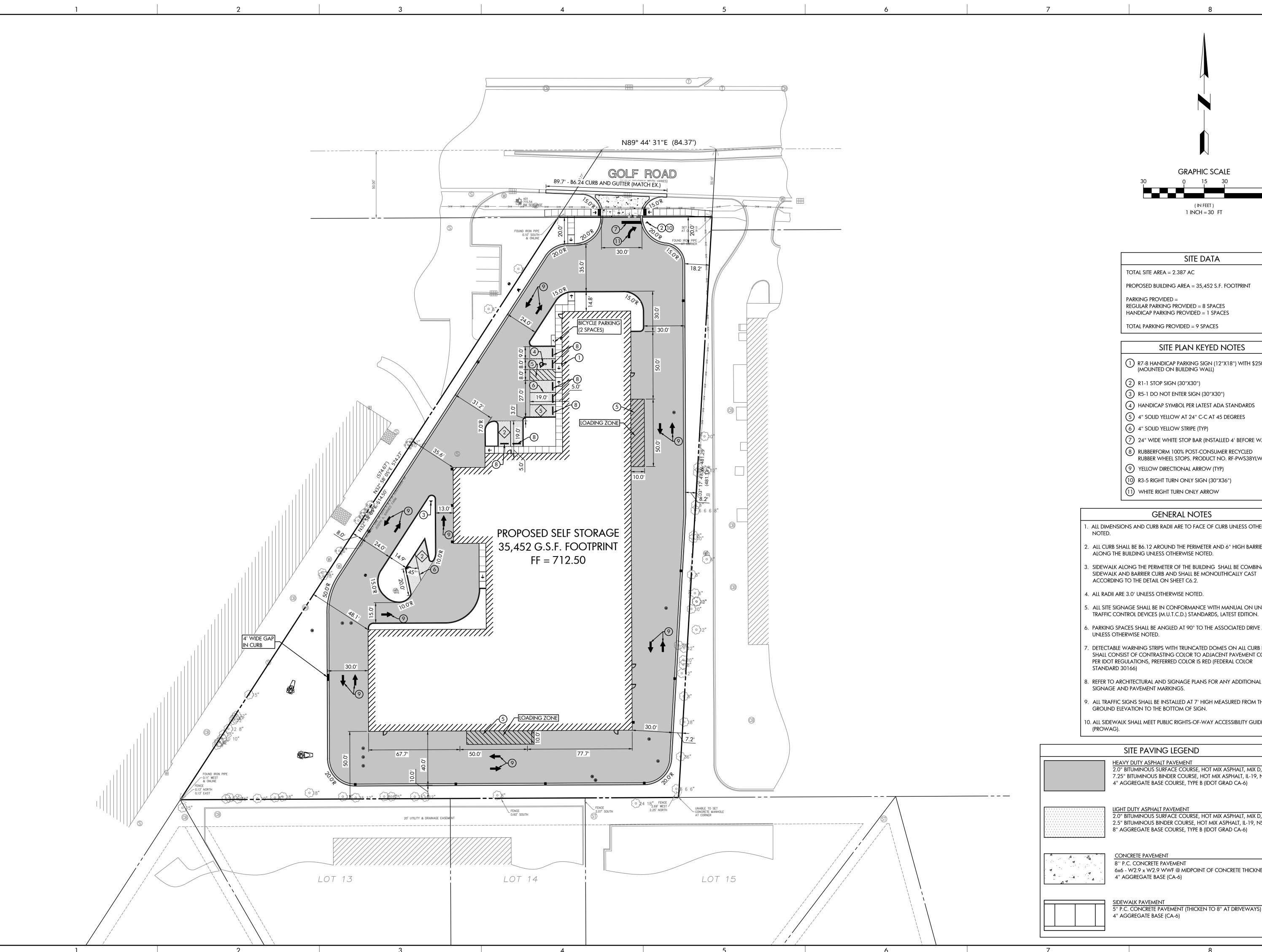
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SHEET NO.

22013

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GRAPHIC SCALE

SITE DATA

PROPOSED BUILDING AREA = 35,452 S.F. FOOTPRINT

REGULAR PARKING PROVIDED = 8 SPACESHANDICAP PARKING PROVIDED = 1 SPACES

TOTAL PARKING PROVIDED = 9 SPACES

SITE PLAN KEYED NOTES

(1) R7-8 HANDICAP PARKING SIGN (12"X18") WITH \$250 FINE

(7) 24" WIDE WHITE STOP BAR (INSTALLED 4' BEFORE WALK)

(8) RUBBERFORM 100% POST-CONSUMER RECYCLED

RUBBER WHEEL STOPS. PRODUCT NO. RF-PWS38YLW

9 YELLOW DIRECTIONAL ARROW (TYP)

(11) WHITE RIGHT TURN ONLY ARROW

GENERAL NOTES

ALL DIMENSIONS AND CURB RADII ARE TO FACE OF CURB UNLESS OTHERWISE

2. ALL CURB SHALL BE B6.12 AROUND THE PERIMETER AND 6" HIGH BARRIER CURB ALONG THE BUILDING UNLESS OTHERWISE NOTED.

3. SIDEWALK ALONG THE PERIMETER OF THE BUILDING SHALL BE COMBINATION SIDEWALK AND BARRIER CURB AND SHALL BE MONOLITHICALLY CAST

5. ALL SITE SIGNAGE SHALL BE IN CONFORMANCE WITH MANUAL ON UNIFORM

6. PARKING SPACES SHALL BE ANGLED AT 90° TO THE ASSOCIATED DRIVE AISLE

. DETECTABLE WARNING STRIPS WITH TRUNCATED DOMES ON ALL CURB RAMPS

SHALL CONSIST OF CONTRASTING COLOR TO ADJACENT PAVEMENT COLOR PER IDOT REGULATIONS, PREFERRED COLOR IS RED (FEDERAL COLOR

8. REFER TO ARCHITECTURAL AND SIGNAGE PLANS FOR ANY ADDITIONAL SITE

9. ALL TRAFFIC SIGNS SHALL BE INSTALLED AT 7' HIGH MEASURED FROM THE GROUND ELEVATION TO THE BOTTOM OF SIGN.

10. ALL SIDEWALK SHALL MEET PUBLIC RIGHTS-OF-WAY ACCESSIBILITY GUIDELINES

SITE PAVING LEGEND

2.0" BITUMINOUS SURFACE COURSE, HOT MIX ASPHALT, MIX D, N50 7.25" BITUMINOUS BINDER COURSE, HOT MIX ASPHALT, IL-19, N50 4" AGGREGATE BASE COURSE, TYPE B (IDOT GRAD CA-6)

LIGHT DUTY ASPHALT PAVEMENT 2.0" BITUMINOUS SURFACE COURSE, HOT MIX ASPHALT, MIX D, N50 2.5" BITUMINOUS BINDER COURSE, HOT MIX ASPHALT, IL-19, N50 8" AGGREGATE BASE COURSE, TYPE B (IDOT GRAD CA-6)

> 8" P.C. CONCRETE PAVEMENT 6x6 - W2.9 x W2.9 WWF @ MIDPOINT OF CONCRETE THICKNESS

5" P.C. CONCRETE PAVEMENT (THICKEN TO 8" AT DRIVEWAYS)

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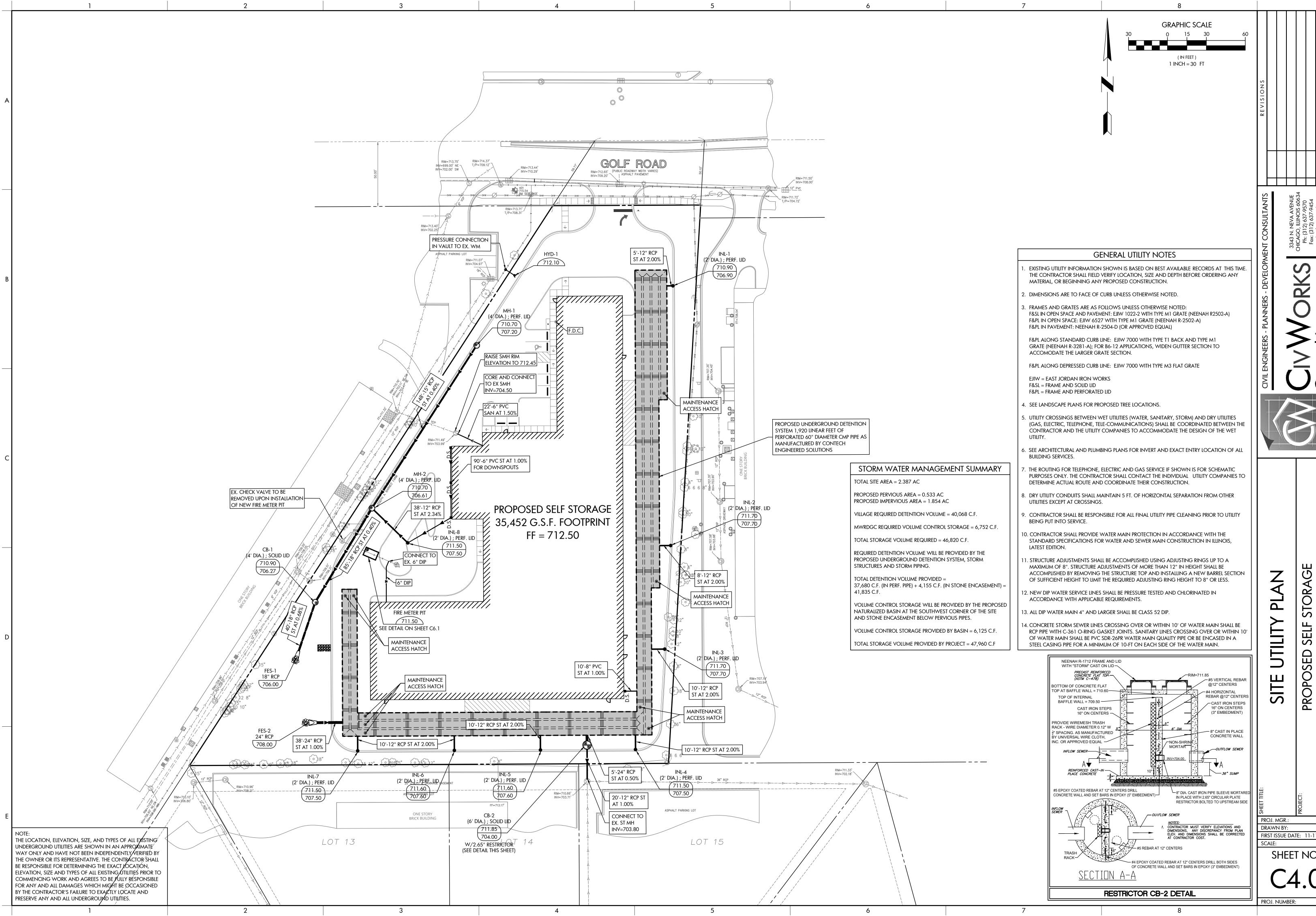
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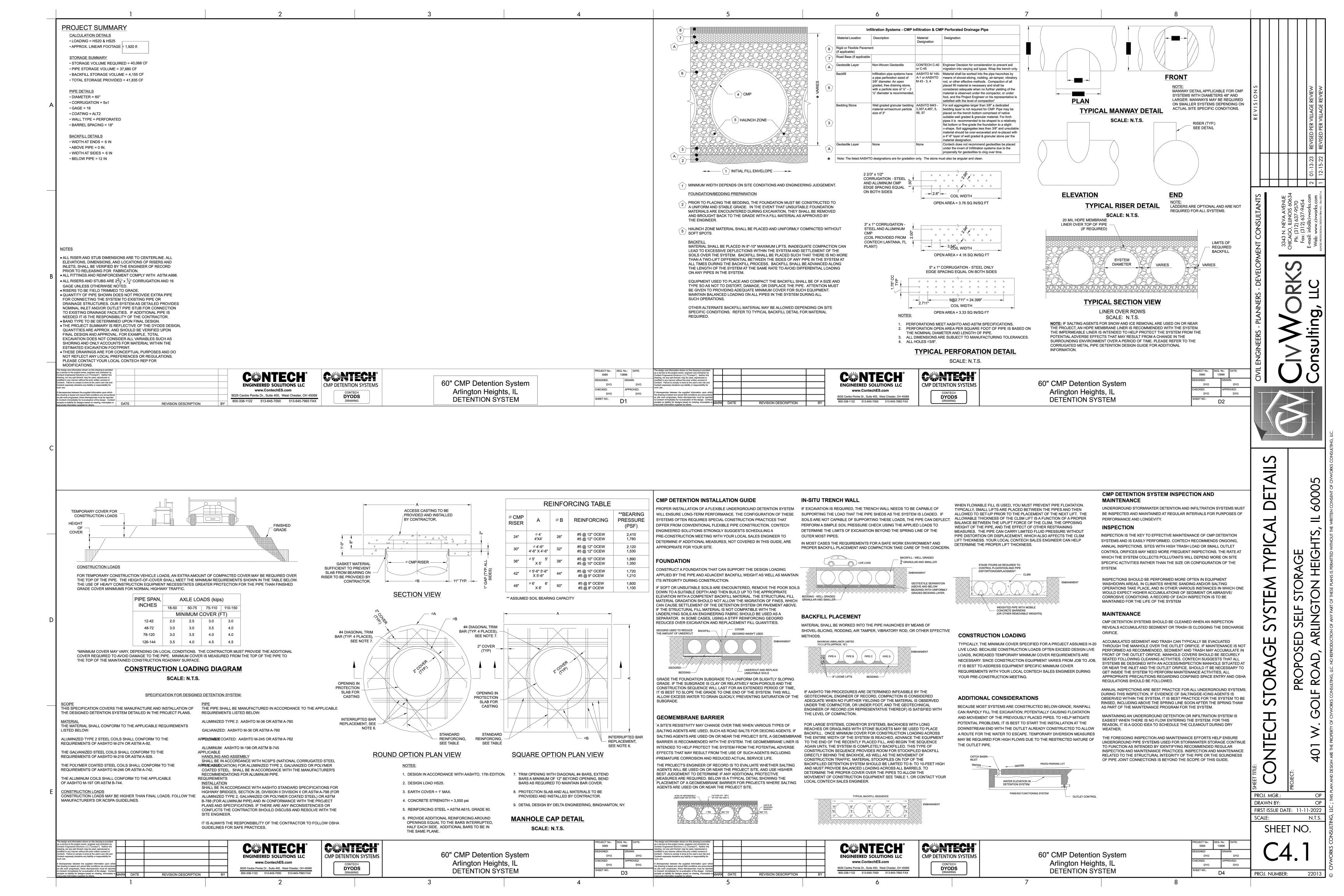
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Contech® CMP Detention & Infiltration Maintenance Guide



CNTECH®

Contech® CMP Detention

Maintenance

Underground storm water detention and retention systems should be inspected at regular intervals and maintained when necessary to ensure optimum performance. The rate at which the system collects pollutants will depend more heavily on site activities than the size or configuration of the system.

Inspection

Inspection is the key to effective maintenance and is easily performed. CONTECH recommends ongoing quarterly inspections of the accumulated sediment. Sediment deposition and transport may vary from year to year and quarterly inspections will help insure that systems are cleaned out at the appropriate time. Inspections should be performed more often in the winter months in climates where sanding operations may lead to rapid accumulations, or in equipment washdown areas. It is very useful to keep a record of each inspection. A sample inspection log is included for your use.

Systems should be cleaned when inspection reveals that accumulated sediment or trash is clogging the discharge orifice. CONTECH suggests that all systems be designed with an access/inspection manhole situated at or near the inlet and the outlet orifice. Should it be necessary to get inside the system to perform maintenance activities, all appropriate precautions regarding confined space entry and OSHA regulations should be followed.

Cleaning

Maintaining an underground detention or retention system is easiest when there is no flow entering the system. For this reason, it is a good idea to schedule the cleanout during dry weather.

Accumulated sediment and trash can typically be evacuated through the manhole over the outlet orifice. If maintenance is not performed as recommended, sediment and trash may accumulate in front of the outlet orifice. Manhole covers should be securely seated following cleaning activities.

Inspection & Maintenance Log Sample Template

	" Diameter	System	Location: Anywhere, USA		
Date	Depth of Sediment	Accumulated Trash	Maintenance Performed	Maintenance Personnel	Comments
12/01/10	2"	None	Removed Sediment	B. Johnson	Installed
03/01/11	1"	Some	Removed Sediment and Trash	B. Johnson	Swept parking lot
06/01/11	0"	None	None		
09/01/11	0"	Heavy	Removed Trash	S. Riley	
12/01/11	1"	None	Removed Sediment	S. Riley	
04/01/12	0"	None	None	S. Riley	
04/15/01	2	Some	Removed Sediment and Trash	ACE Environmental Services	
				6	
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	7				

Drawings and specifications are available at www.ContechES.com.

Site-specific support is available from our engineers.

CONTECH°

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Contech Engineered Solutions LLC provides site solutions for the civil engineering industry. Contech's portfolio includes bridges, drainage, sanitary sewer, stormwater, earth stabilization and wastewater treament products. For information, visit www.ContechES.com or call 800.338.1122.

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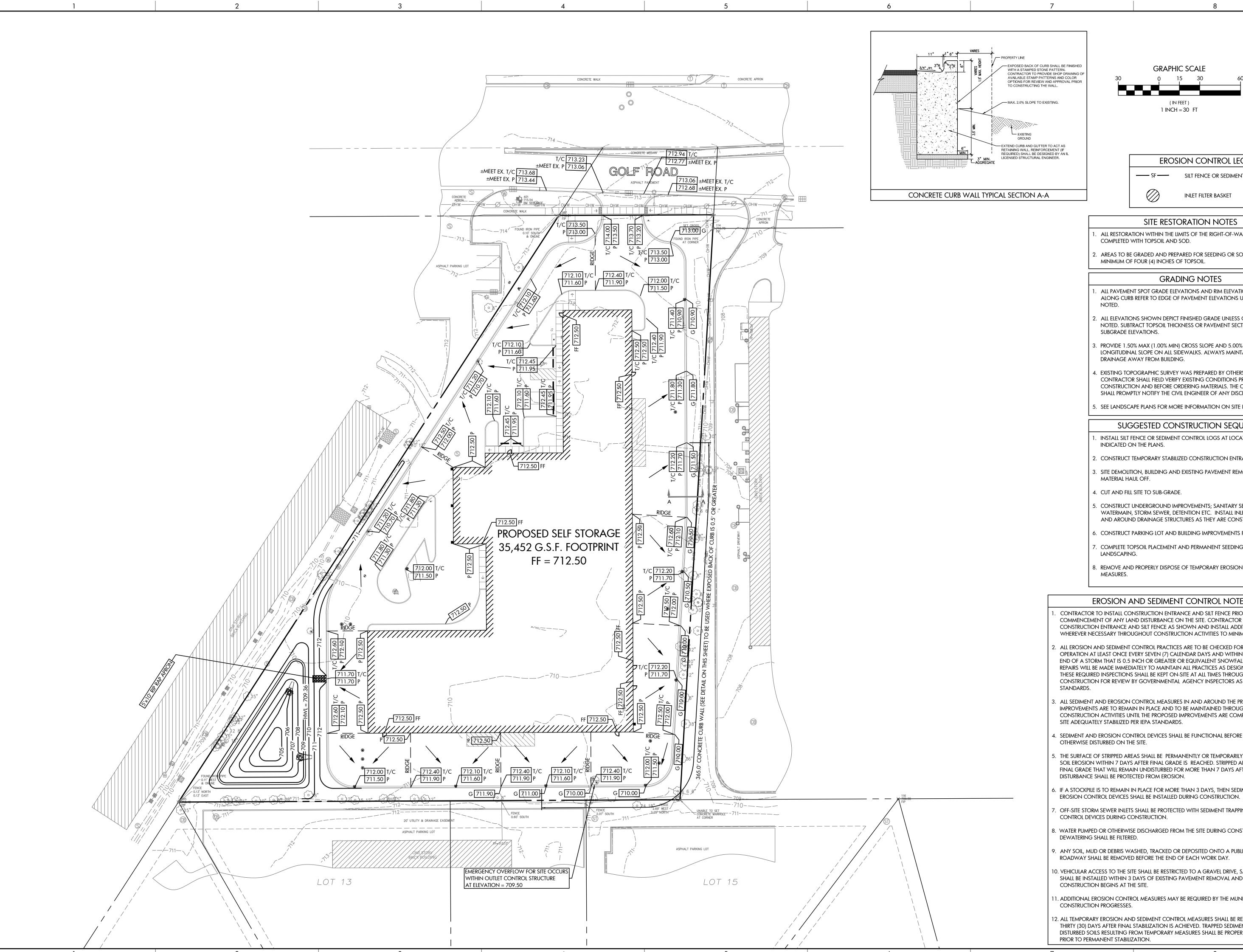
800.338.1122 www.ContechES.com

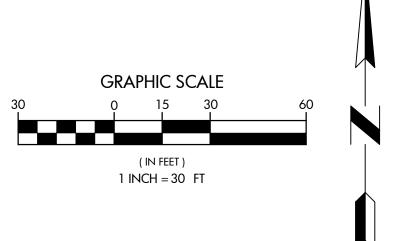
CONTECH STORAGE SYSTEM
INSPECTION AND MAINTENANCE GUIDELINES

GOLF ROAD, ARLINGTON HEIGHTS, IL 60005

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EROSION CONTROL LEGEND

SF SILT FENCE OR SEDIMENT CONTROL LOGS



INLET FILTER BASKET

SITE RESTORATION NOTES

- ALL RESTORATION WITHIN THE LIMITS OF THE RIGHT-OF-WAY SHALL BE
- AREAS TO BE GRADED AND PREPARED FOR SEEDING OR SOD SHALL HAVE A MINIMUM OF FOUR (4) INCHES OF TOPSOIL.

GRADING NOTES

- ALL PAVEMENT SPOT GRADE ELEVATIONS AND RIM ELEVATIONS WITHIN OR ALONG CURB REFER TO EDGE OF PAVEMENT ELEVATIONS UNLESS OTHERWISE
- ALL ELEVATIONS SHOWN DEPICT FINISHED GRADE UNLESS OTHERWISE NOTED. SUBTRACT TOPSOIL THICKNESS OR PAVEMENT SECTION TO ESTABLISH
- PROVIDE 1.50% MAX (1.00% MIN) CROSS SLOPE AND 5.00% MAX LONGITUDINAL SLOPE ON ALL SIDEWALKS. ALWAYS MAINTAIN POSITIVE DRAINAGE AWAY FROM BUILDING.
- EXISTING TOPOGRAPHIC SURVEY WAS PREPARED BY OTHERS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND BEFORE ORDERING MATERIALS. THE CONTRACTOR SHALL PROMPTLY NOTIFY THE CIVIL ENGINEER OF ANY DISCREPANCIES.
- SEE LANDSCAPE PLANS FOR MORE INFORMATION ON SITE LANDSCAPING.

SUGGESTED CONSTRUCTION SEQUENCE

- INSTALL SILT FENCE OR SEDIMENT CONTROL LOGS AT LOCATIONS AS INDICATED ON THE PLANS.
- CONSTRUCT TEMPORARY STABILIZED CONSTRUCTION ENTRANCE.
- SITE DEMOLITION, BUILDING AND EXISTING PAVEMENT REMOVAL AND EXCESS
- 4. CUT AND FILL SITE TO SUB-GRADE.
- CONSTRUCT UNDERGROUND IMPROVEMENTS: SANITARY SEWER. WATERMAIN, STORM SEWER, DETENTION ETC. INSTALL INLET PROTECTION IN AND AROUND DRAINAGE STRUCTURES AS THEY ARE CONSTRUCTED
- 6. CONSTRUCT PARKING LOT AND BUILDING IMPROVEMENTS PER PLAN.
- . COMPLETE TOPSOIL PLACEMENT AND PERMANENT SEEDING/SODDING AND LANDSCAPING.
- REMOVE AND PROPERLY DISPOSE OF TEMPORARY EROSION CONTROL

EROSION AND SEDIMENT CONTROL NOTES

- CONTRACTOR TO INSTALL CONSTRUCTION ENTRANCE AND SILT FENCE PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE ON THE SITE. CONTRACTOR TO MAINTAIN CONSTRUCTION ENTRANCE AND SILT FENCE AS SHOWN AND INSTALL ADDITIONAL SILT FENCE WHEREVER NECESSARY THROUGHOUT CONSTRUCTION ACTIVITIES TO MINIMIZE SOIL EROSION.
- ALL EROSION AND SEDIMENT CONTROL PRACTICES ARE TO BE CHECKED FOR STABILITY AND OPERATION AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCH OR GREATER OR EQUIVALENT SNOWFALL. ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGNED. RECORDS OF THESE REQUIRED INSPECTIONS SHALL BE KEPT ON-SITE AT ALL TIMES THROUGHOUT CONSTRUCTION FOR REVIEW BY GOVERNMENTAL AGENCY INSPECTORS AS PER IEPA
- ALL SEDIMENT AND EROSION CONTROL MEASURES IN AND AROUND THE PROPOSED IMPROVEMENTS ARE TO REMAIN IN PLACE AND TO BE MAINTAINED THROUGHOUT CONSTRUCTION ACTIVITIES UNTIL THE PROPOSED IMPROVEMENTS ARE COMPLETED AND THE SITE ADEQUATELY STABILIZED PER IEPA STANDARDS.
- . SEDIMENT AND EROSION CONTROL DEVICES SHALL BE FUNCTIONAL BEFORE LAND IS
- THE SURFACE OF STRIPPED AREAS SHALL BE PERMANENTLY OR TEMPORARILY PROTECTED FROM SOIL EROSION WITHIN 7 DAYS AFTER FINAL GRADE IS REACHED. STRIPPED AREAS NOT AT FINAL GRADE THAT WILL REMAIN UNDISTURBED FOR MORE THAN 7 DAYS AFTER INITIAL
- 5. IF A STOCKPILE IS TO REMAIN IN PLACE FOR MORE THAN 3 DAYS, THEN SEDIMENT AND
- . OFF-SITE STORM SEWER INLETS SHALL BE PROTECTED WITH SEDIMENT TRAPPING OR FILTER CONTROL DEVICES DURING CONSTRUCTION.
- 3. WATER PUMPED OR OTHERWISE DISCHARGED FROM THE SITE DURING CONSTRUCTION
- . ANY SOIL, MUD OR DEBRIS WASHED, TRACKED OR DEPOSITED ONTO A PUBLIC OR PRIVATE
- 10. VEHICULAR ACCESS TO THE SITE SHALL BE RESTRICTED TO A GRAVEL DRIVE, SAID GRAVEL DRIVE SHALL BE INSTALLED WITHIN 3 DAYS OF EXISTING PAVEMENT REMOVAL AND BEFORE ANY NEW CONSTRUCTION BEGINS AT THE SITE.
- 1. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY THE MUNICIPALITY AS
- 12. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER FINAL STABILIZATION IS ACHIEVED. TRAPPED SEDIMENT AND OTHER DISTURBED SOILS RESULTING FROM TEMPORARY MEASURES SHALL BE PROPERLY DISPOSED OF PRIOR TO PERMANENT STABILIZATION.



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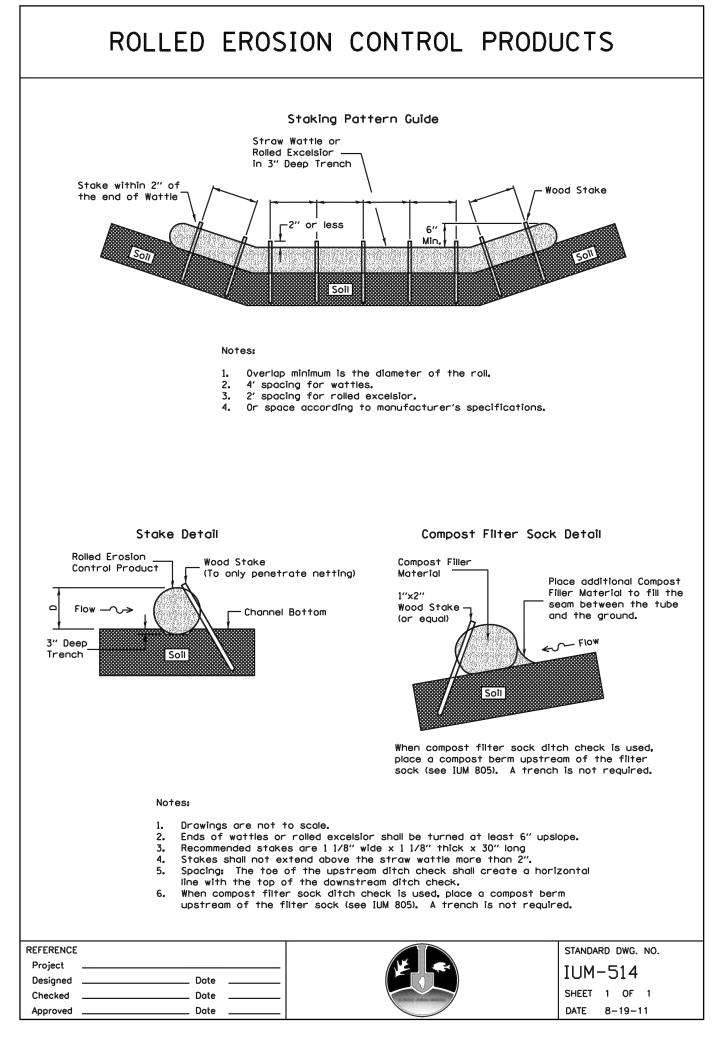
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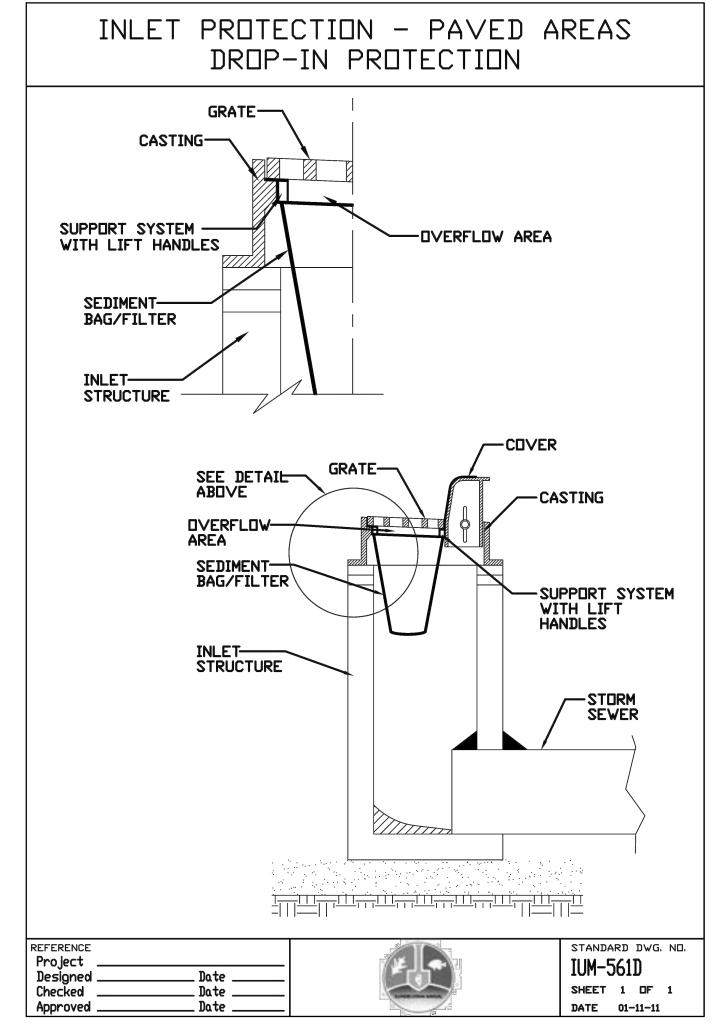
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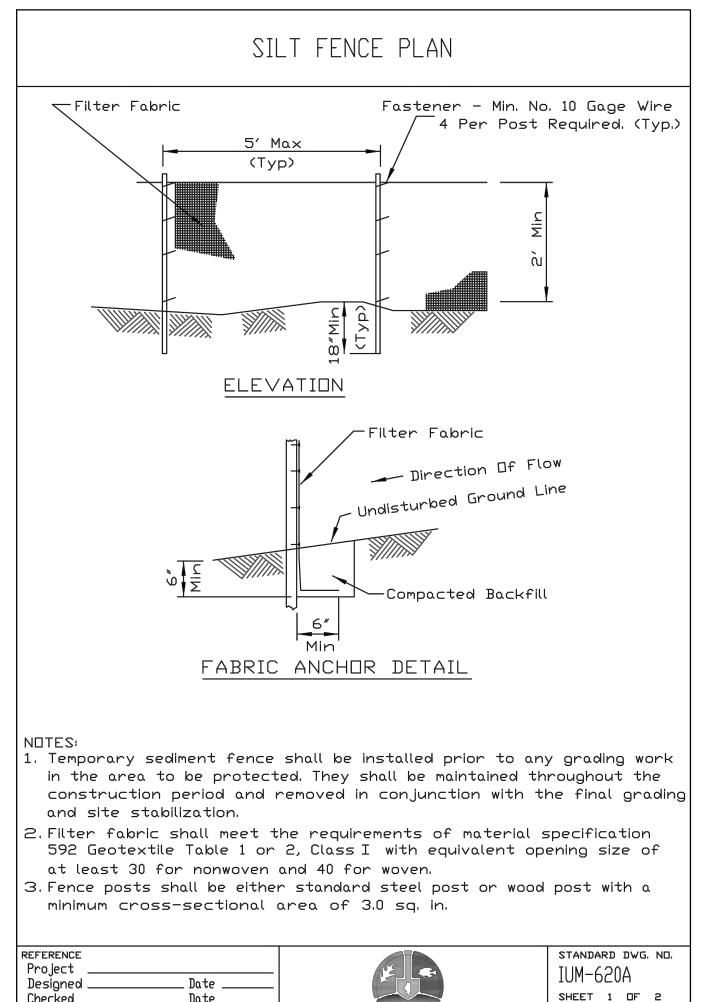
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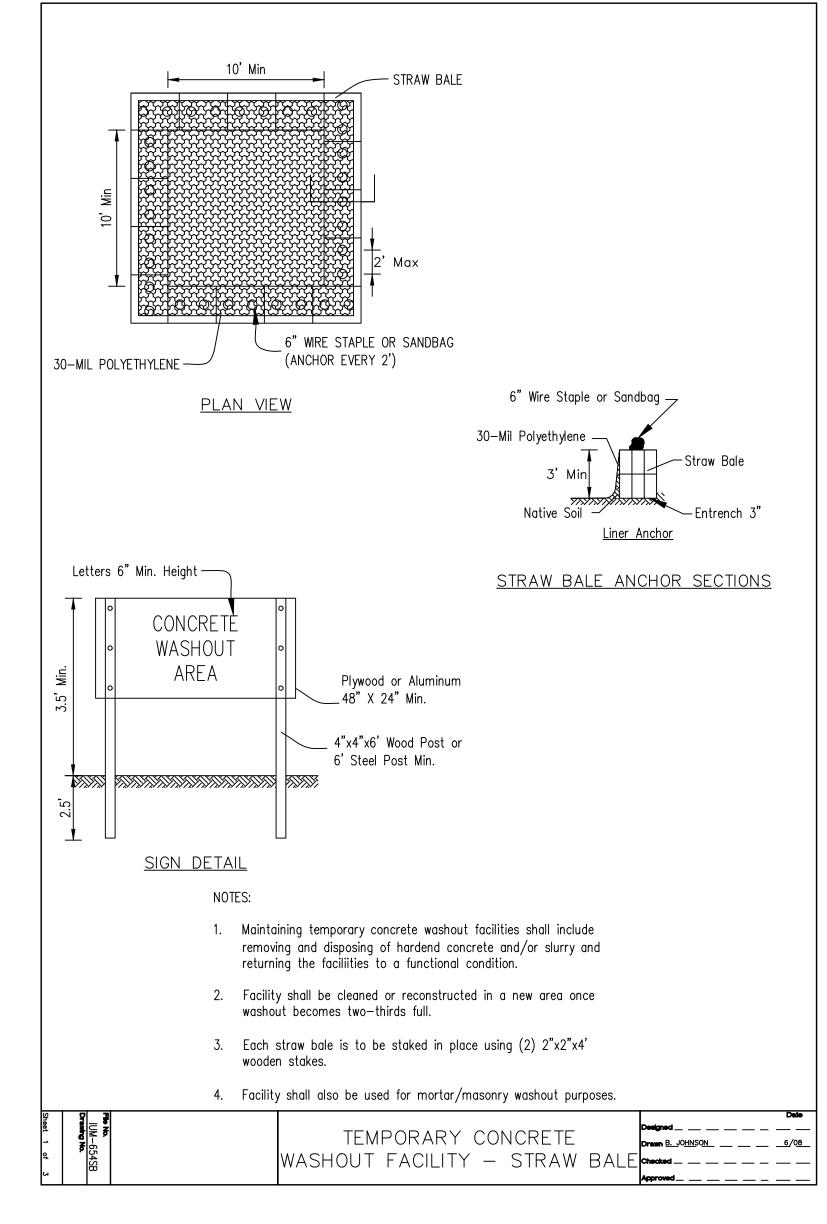
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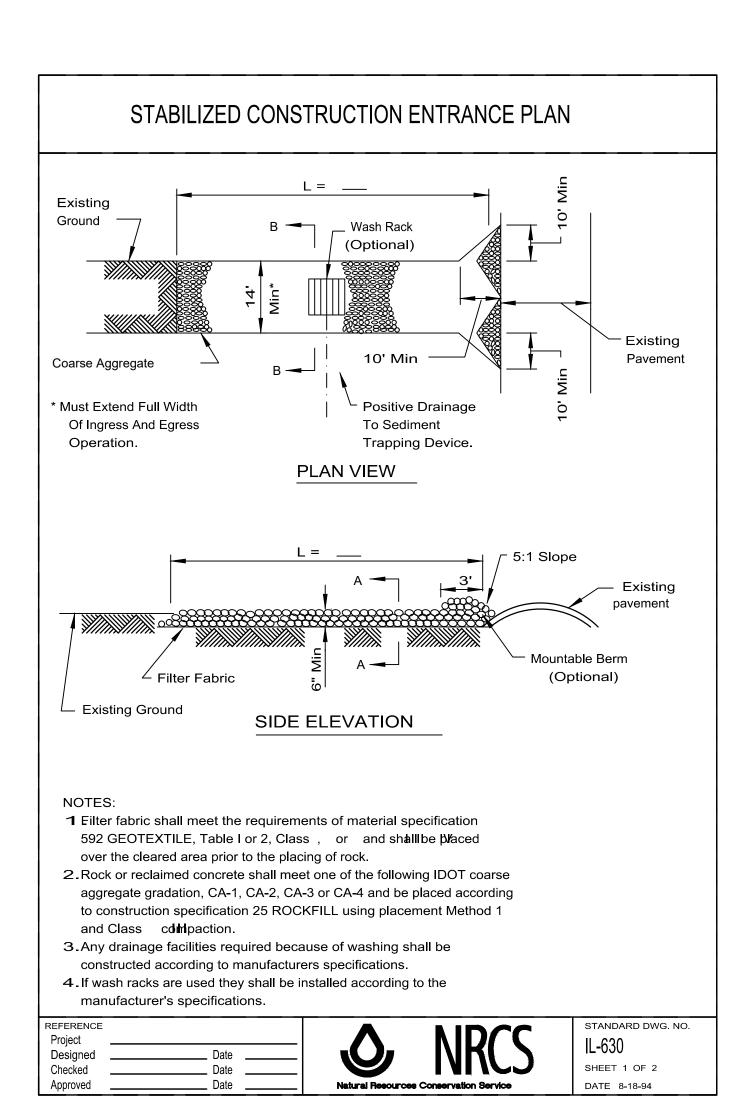
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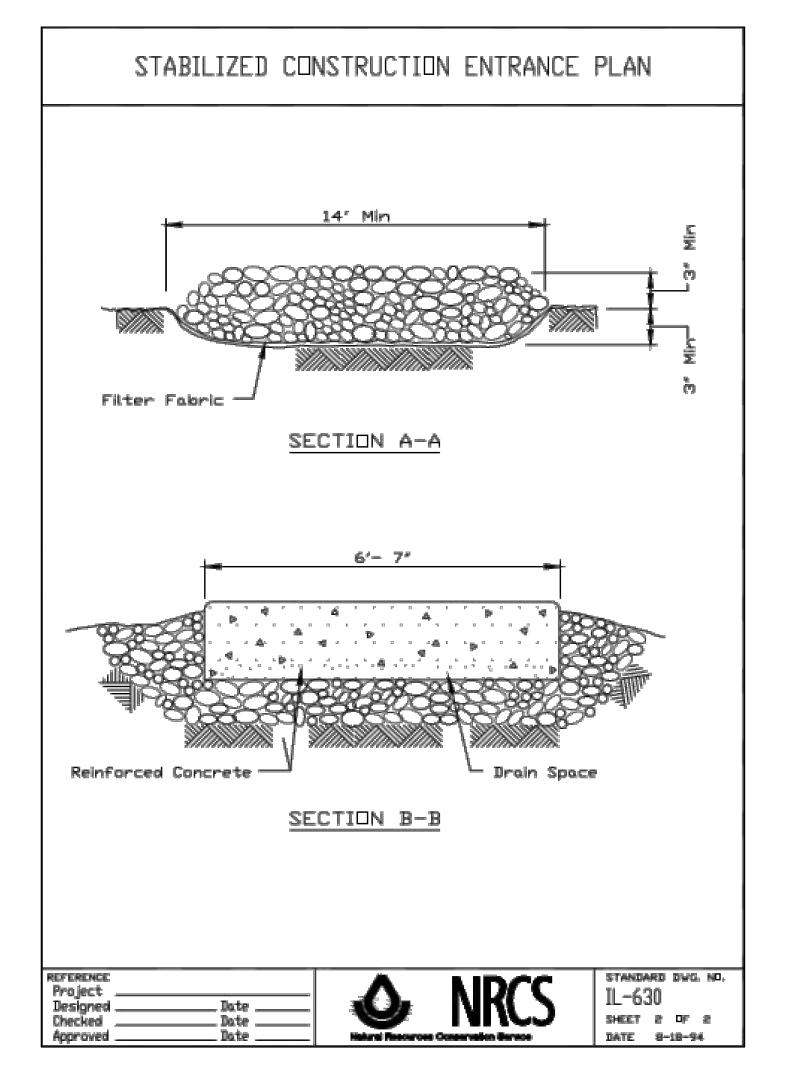
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- THE EXCAVATING AND UNDERGROUND CONTRACTOR SHALL BE RESPONSIBLE FOR THE INITIAL CONSTRUCTION OF THE EROSION CONTROL MEASURES SHOWN IN THE PLAN, AND SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF SAID FACILITIES UNTIL THE COMPLETION OF HIS FINAL GRADING OPERATIONS AFTER CONSTRUCTION OF THOSE IMPROVEMENTS IN HIS CONTRACT. THE CONTRACTOR'S EROSION CONTROL MAINTENANCE RESPONSIBILITIES SHALL BE EXCLUSIVE OF THE CONSTRUCTION WARRANTY AND/OR GUARANTEE PERIOD.
- . ALL EROSION AND SEDIMENT CONTROL PRACTICES ARE TO BE CHECKED FOR STABILITY AND OPERATION AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCH OR GREATER OR EQUIVALENT SNOWFALL. ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGNED.
- 3. SEDIMENT SHALL BE REMOVED FROM THE SEDIMENT TRAPS WHEN THE STORAGE CAPACITY HAS BEEN APPROXIMATELY 50% FILLED.
- 4. SEDIMENT SHALL BE REMOVED FROM BEHIND THE SILT FENCE WHEN IT BECOMES APPROXIMATELY 0.5' DEEP AT THE FENCE. THE SILT FENCE SHALL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER.
- 5. ALL SEEDED AREAS WILL BE FERTILIZED, RE-SEEDED AS NECESSARY, AND MULCHED AS REQUIRED TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER.
- 6. AFTER CONSTRUCTION AND UPON FINAL SITE STABILIZATION, THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL DEVICES AND TURN OVER MAINTENANCE OF THE PERMANENT EROSION CONTROL MEASURES TO THE OWNER.
- 7. AFTER CONSTRUCTION, THE OWNER SHALL MAINTAIN ALL PERMANENT CONTROL DEVICES IN ORDER TO PREVENT EROSION.

RECOMMENDED EROSION CONTROL MAINTENANCE SCHEDULE

FIRST ISSUE DATE: 11-11-2022 SCALE: SHEET NO. 22013

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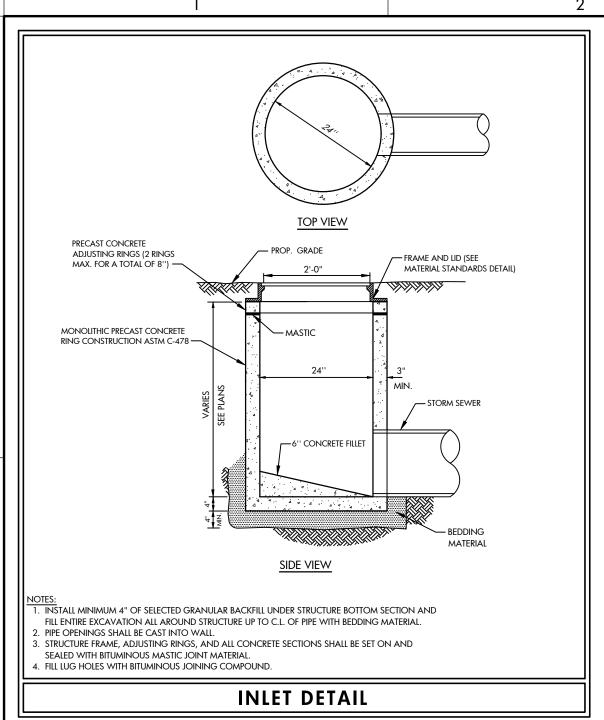
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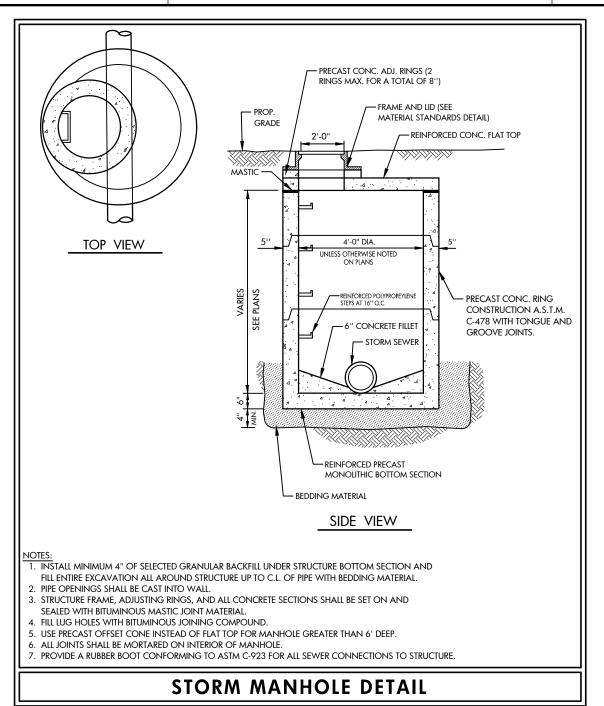
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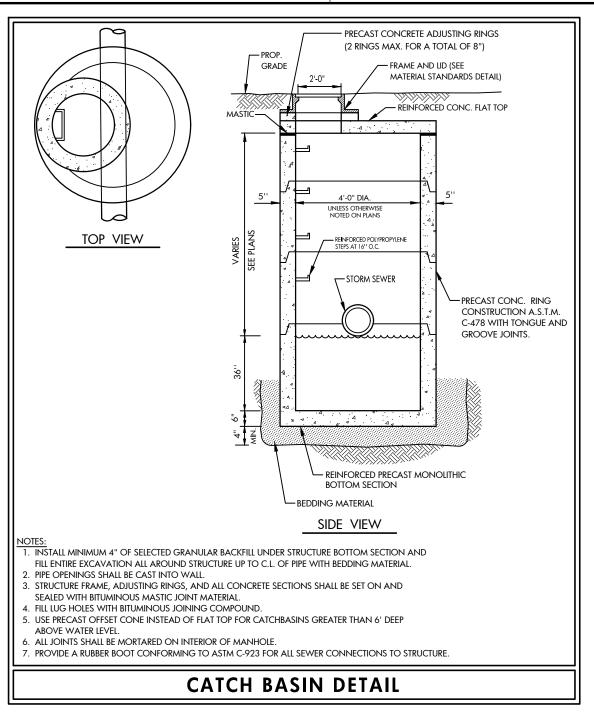
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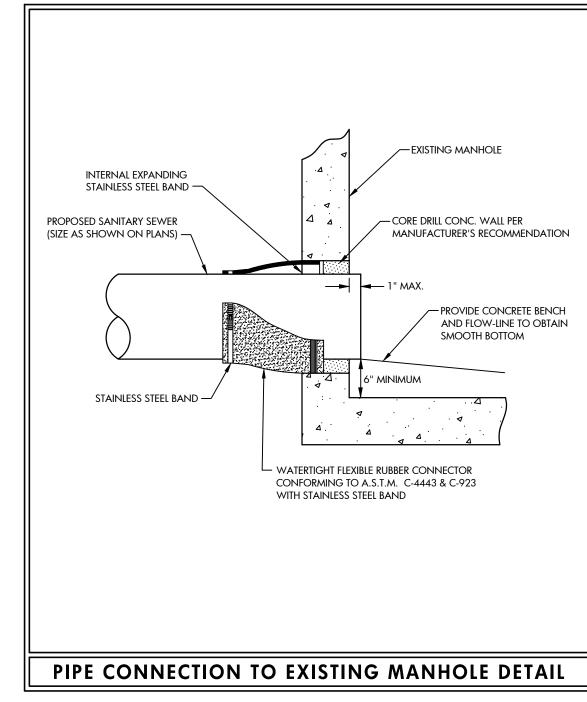
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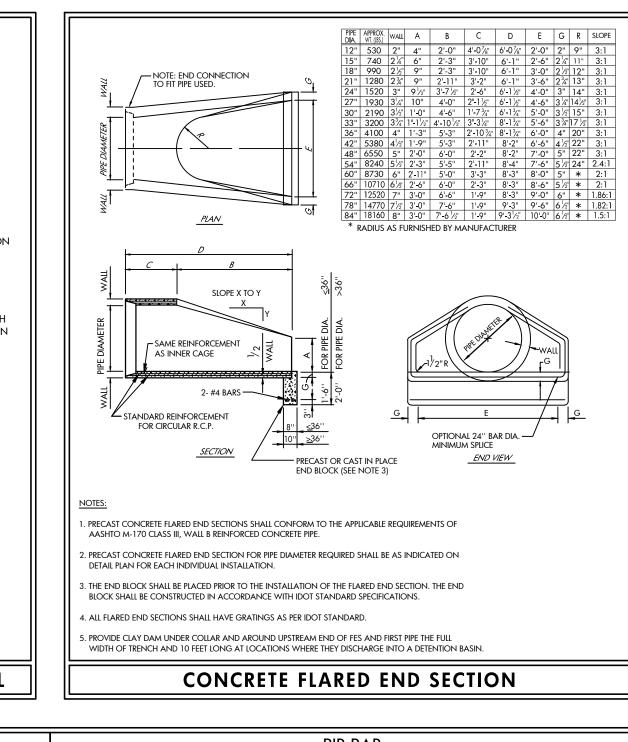
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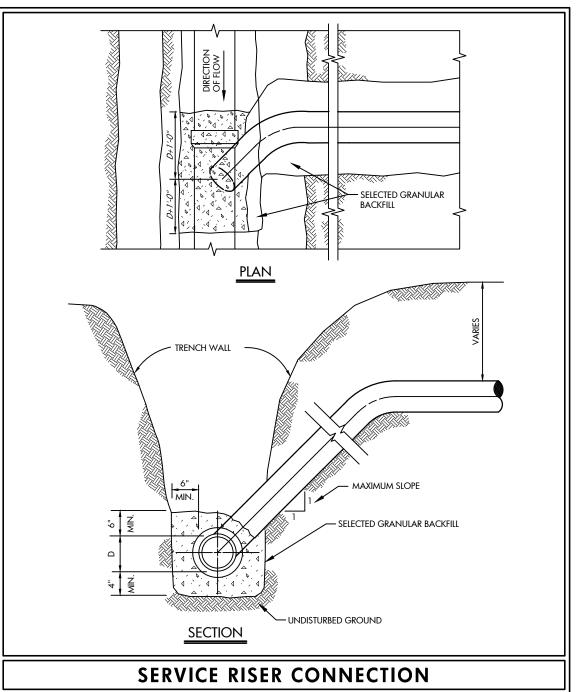


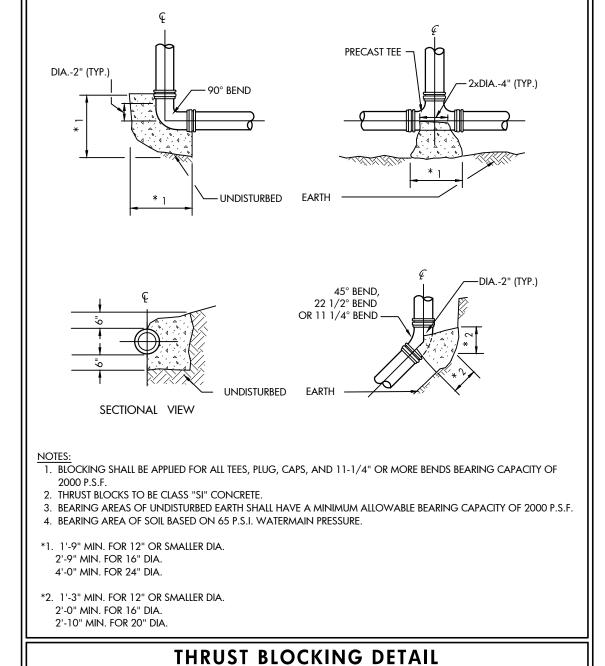


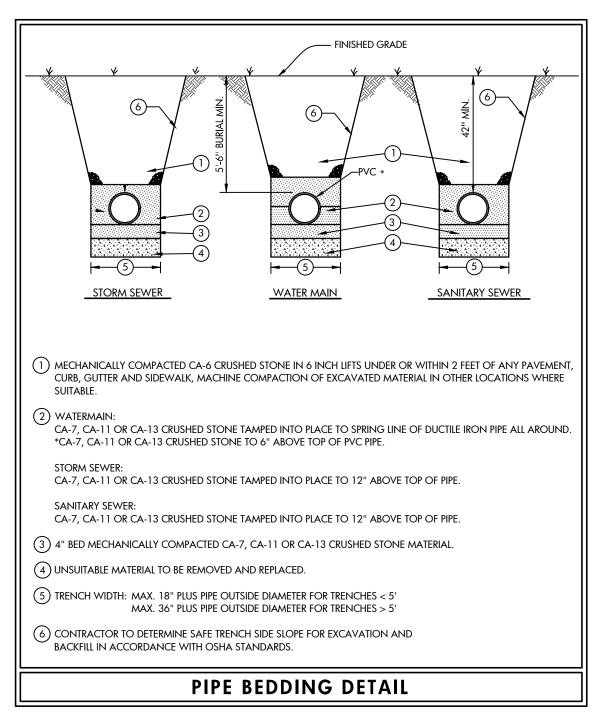


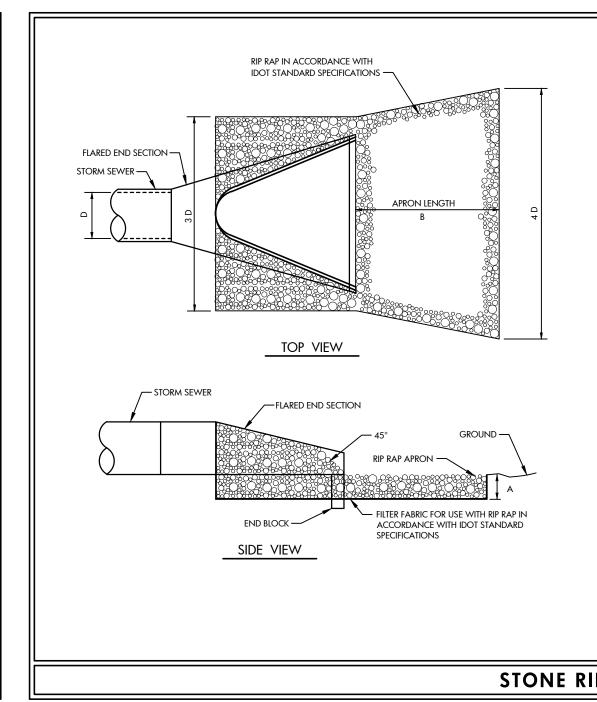












PIPE			STONE	RIP-RA	P			BEDD	ING
DIAMETER (IN.)	QUALITY DESIGNATION	GRADATION NUMBER	MINIMUM THICKNESS (IN.) A	MINIMUM LENGTH (FT.) B	WEIGHT RANGE (#)	WEIGHT AVERAGE (#)	SIZE AVERAGE (IN.)	GRADATION NUMBER	MINIMUM THICKNES (IN.) C
12	В	3	12''	12'	1-50	10	4.5''	N/A	N/A
15	В	3	14''	14'	1-50	10	4.5"	N/A	N/A
18	В	4	16''	16'	1-50	40	7''	1 or CA-3	6''
21	В	4	18''	18'	1-150	40	7''	1 or CA-3	6''
24	В	4	20''	20'	1-150	40	7''	1 or CA-3	6''
30	В	4	22''	22'	1-150	40	7''	1 or CA-3	6''
36	В	5	24''	24'	3-400	90	10''	1 or CA-3	8''
42	В	5	26''	26'	3-400	90	10''	1 or CA-3	8''
48	В	6	28''	28'	6-600	170	12''	2 or CA-1	10''
54	В	6	32''	32'	6-600	170	12''	2 or CA-1	10''
60	В	6	36''	36'	6-600	170	12''	2 or CA-1	10''
	В	6	44''	44'	6-600	170	12''	2 or CA-1	10''

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

41-2.01 PROTECTION OF WATER MAIN AND WATER SERVICE LINES

41-2.01A GENERAL

Water mains and water service lines shall be protected from sanitary sewers, storm sewers, combined sewers, house sewer service connections and drains as follows:

41-2.01B HORIZONTAL SEPARATION - WATER MAINS AND SEWERS

- (1.) Water mains shall be located at least ten (10) feet (3.1 m) horizontally from any existing or proposed drain, storm sewer, sanitary sewer, combined sewer or sewer service connection.
- (2.) Water mains may be located closer than ten (10) feet (3.1 m) to a sewer line
- (a) local conditions prevent a lateral separation of ten (10) feet (3.1 m); and (b) the water main invert is at least eighteen (18) inches (460 mm) above the crown of the sewer; and
- (c) the water main is either in a separate trench or in the same trench on an undisturbed earth shelf located to one side of the sewer.
- (3.) When it is impossible to meet (1) or (2) above, both the water main and drain or sewer shall be constructed of slip-on or mechanical joint cast or ductile iron pipe, prestressed concrete pipe, or PVC pipe equivalent to water main standards of construction. The drain or sewer shall be pressure tested to the maximum expected surcharge head before backfilling. See Standard Drawing

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

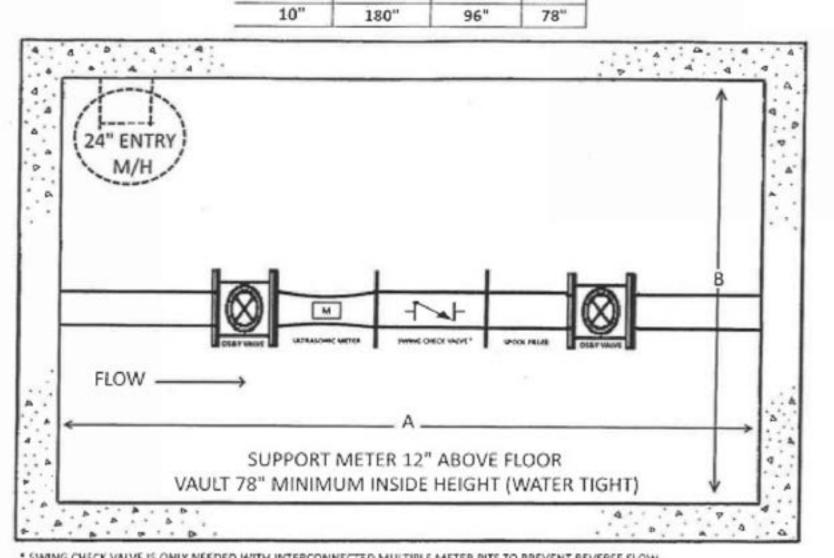
- 41-2.01C VERTICAL SEPARATION WATER MAINS AND SEWERS
- (1.) A water main shall be separated from a sewer so that its invert is a minimum of eighteen (18) inches (460mm) above the crown of the drain or sewer whenever water mains cross storm sewers, sanitary sewers or sewer service connections. The vertical separation shall be maintained for that portion of the water main located within ten (10) feet (3.1m) horizontally of any sewer or drain crossed. A length of water main pipe shall be centered over the sewer to be crossed with joints equidistant from the sewer or drain.
- (2.) Both the water main and sewer shall be constructed of slip-on or mechanical joint cast or ductile iron pipe, prestressed concrete pipe, or PVC pipe equivalent to water main standards of construction when: (a) it is impossible to obtain the proper vertical separation as described in (1) above; or (b) the water main passes under a sewer or drain.
- (3.) A vertical separation of eighteen (18) inches (460 mm) between the invert of the sewer or drain and the crown of the water main shall be maintained where a water main crosses under a sewer. Support the sewer or drain lines to prevent settling and breaking the main, as shown on the Plans or as approved by the ENGINEER.
- (4.) Construction shall extend on each side of the crossing until the perpendicular distance from the water main to the sewer or drain line is at least ten (10) feet (3.1 m) See Standard Drawings No. 20-23.

DOWNSPOUT AS PER ARCHITECTURAL PLANS — WIRE SCREEN FOR RODENTS SCHEDULE 40 PVC (SIZED TO ACCOMMODATE DOWNSPOUT) — SEE NOTE 1 CONNECTION 45° BEND (SCH 40 PVC) -- SEE NOTE : 1. FOR ALL DEPTHS OF COVER LESS THAN TWO (2) FEET, PIPE MUST BE SCHEDULE 40 PVC. FOR DEPTHS OF COVER GREATER THAN TWO (2) FEET REFER TO SPECIFICATIONS FOR ALLOWABLE PIPE TYPES. 2. A WATERTIGHT CONNECTION SHALL BE MAINTAINED WITH ANY TRANSITION FROM

DOWNSPOUT COLLECTOR DETAIL

VILLAGE OF ARLINGTON HEIGHTS WATER METER PIT SPECIFICATIONS

METER SIZE	LENGTH "A"	WIDTH "B"	HEIGHT
3"	120"	60"	78"
4"	120"	60"	78"
6"	120"	72"	78"
8"	144"	84"	78"
10"	180"	96"	78"



* SWING CHECK VALVE IS ONLY NEEDED WITH INTERCONNECTED MULTIPLE METER PITS TO PREVENT REVERSE FLOW. SWING CHECKS SHOULD BE SMITH COOPER BRAND OR EQUIVALENT QUALITY AND FLOW CHARACTERISTICS.

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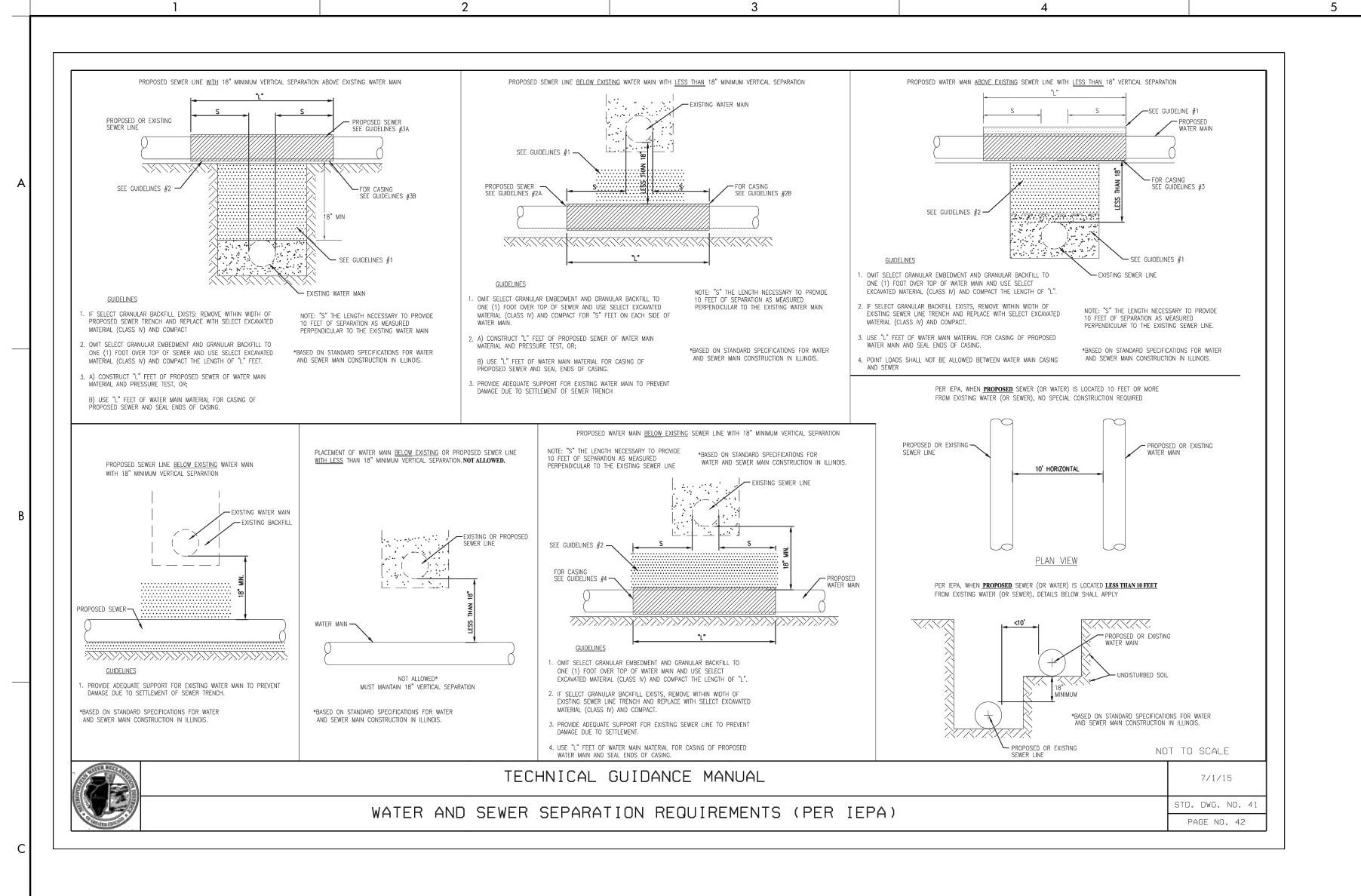
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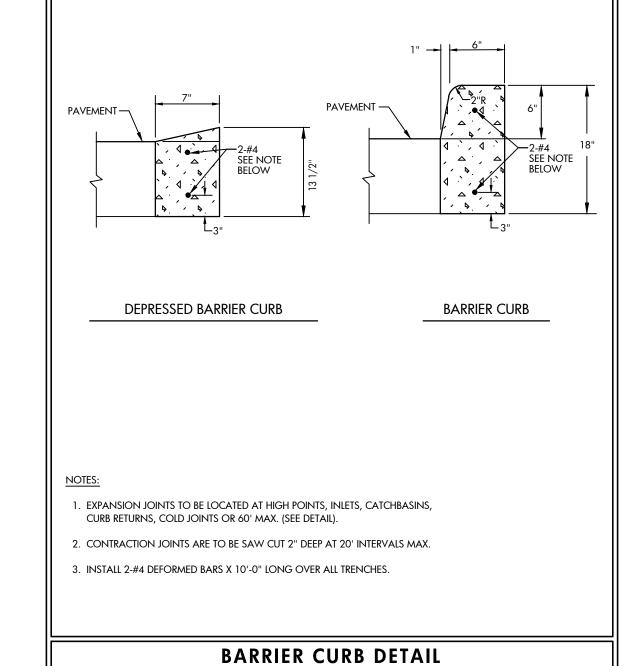
WATER AND SEWER SEPARATION REQUIREMENTS (HORIZONTAL AND VERTICAL SEPARATION)

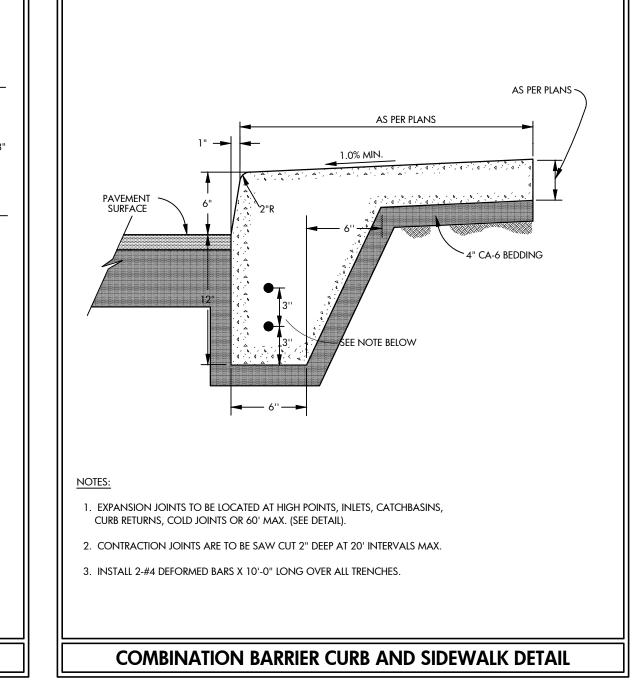
SCHEDULE 40 PVC PIPE TO ANY OTHER PIPE TYPE.

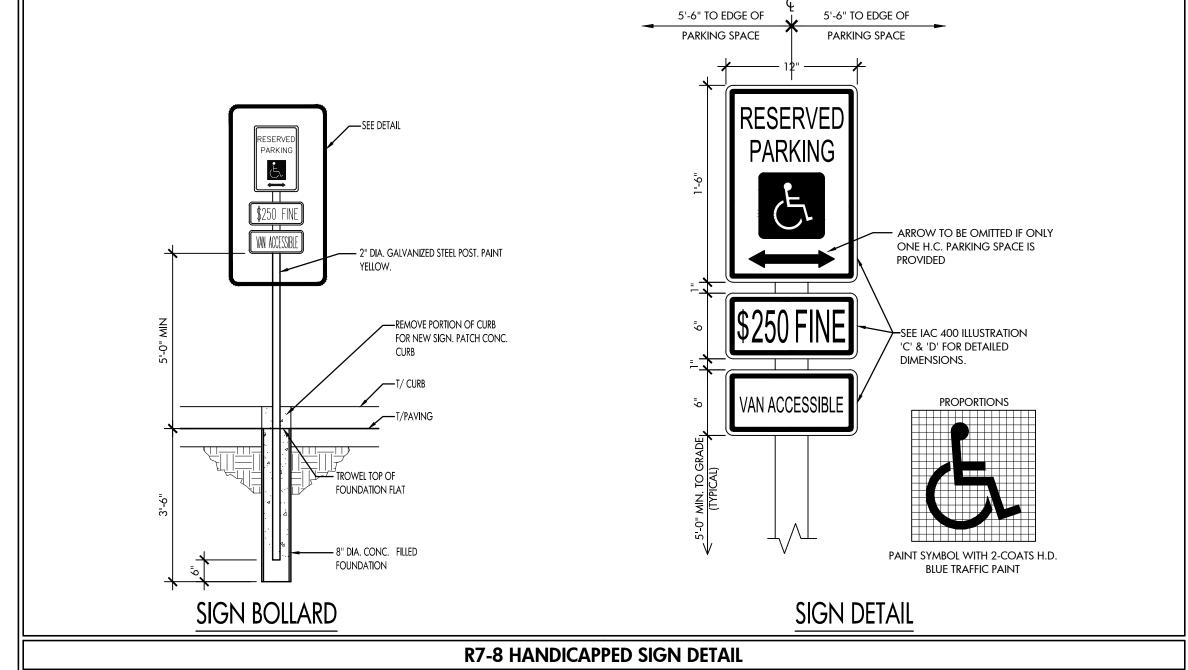
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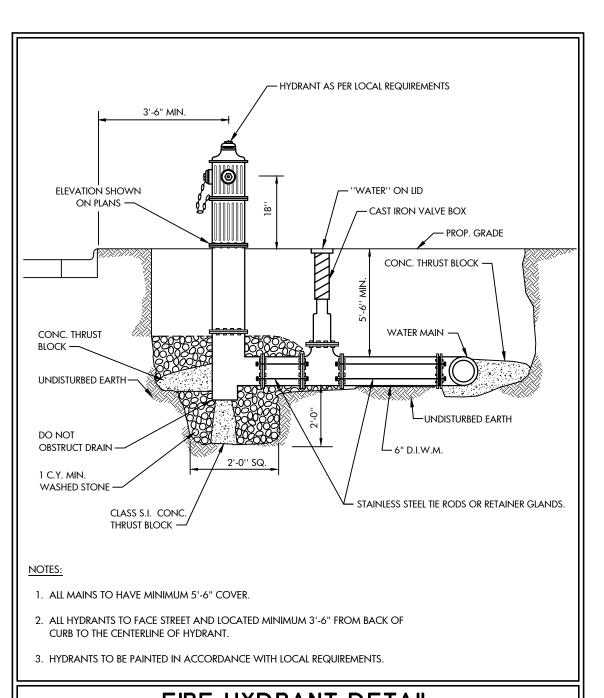
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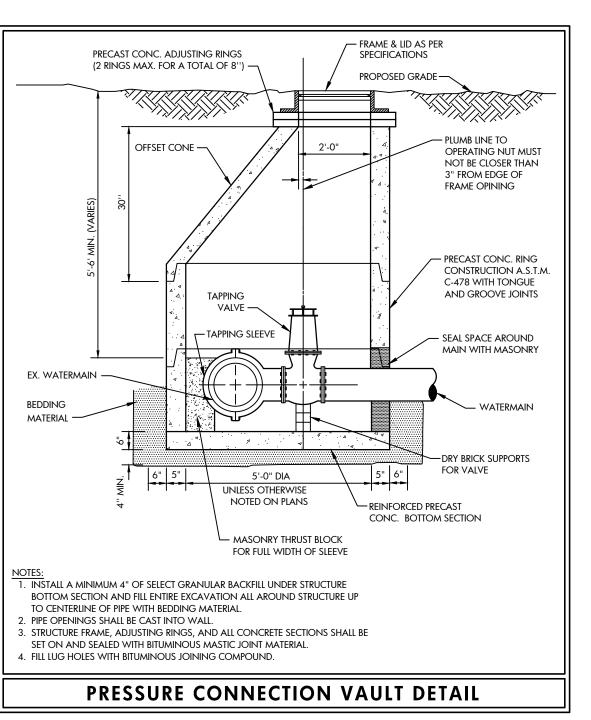


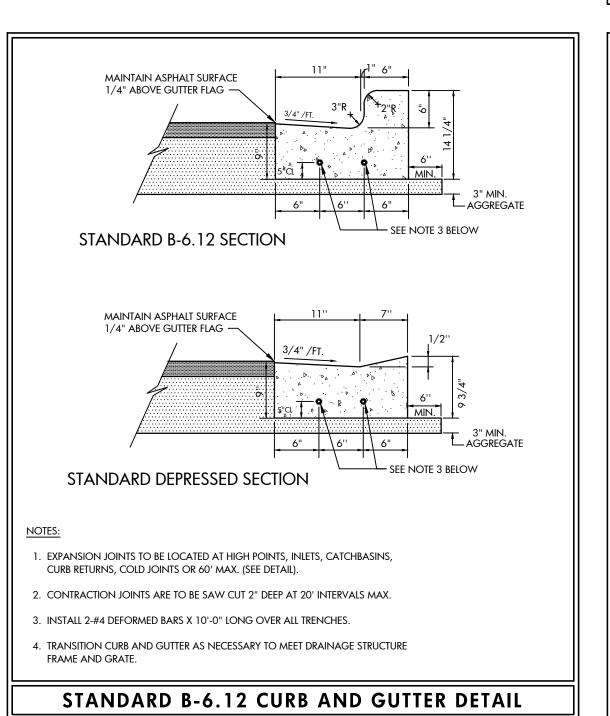


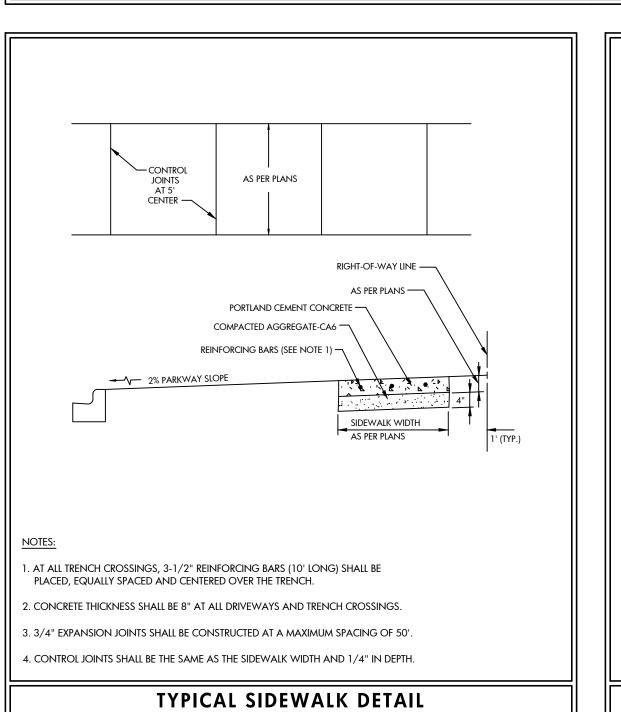


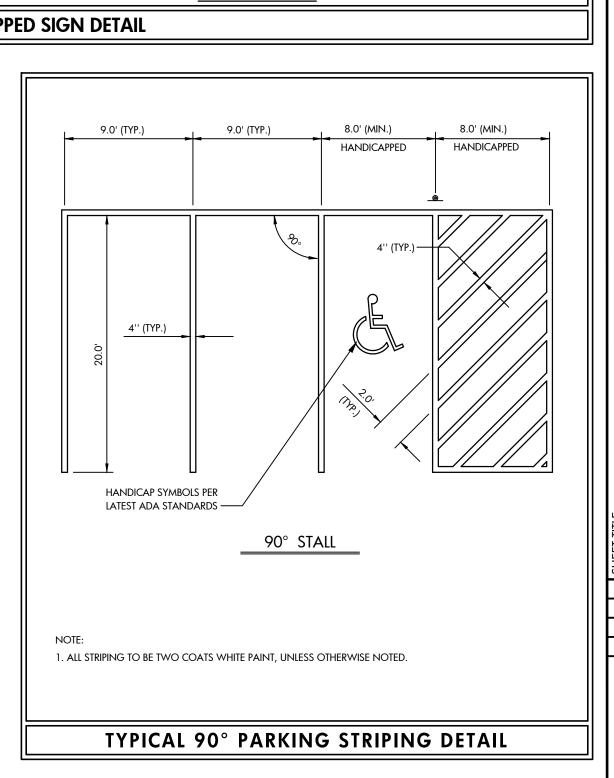






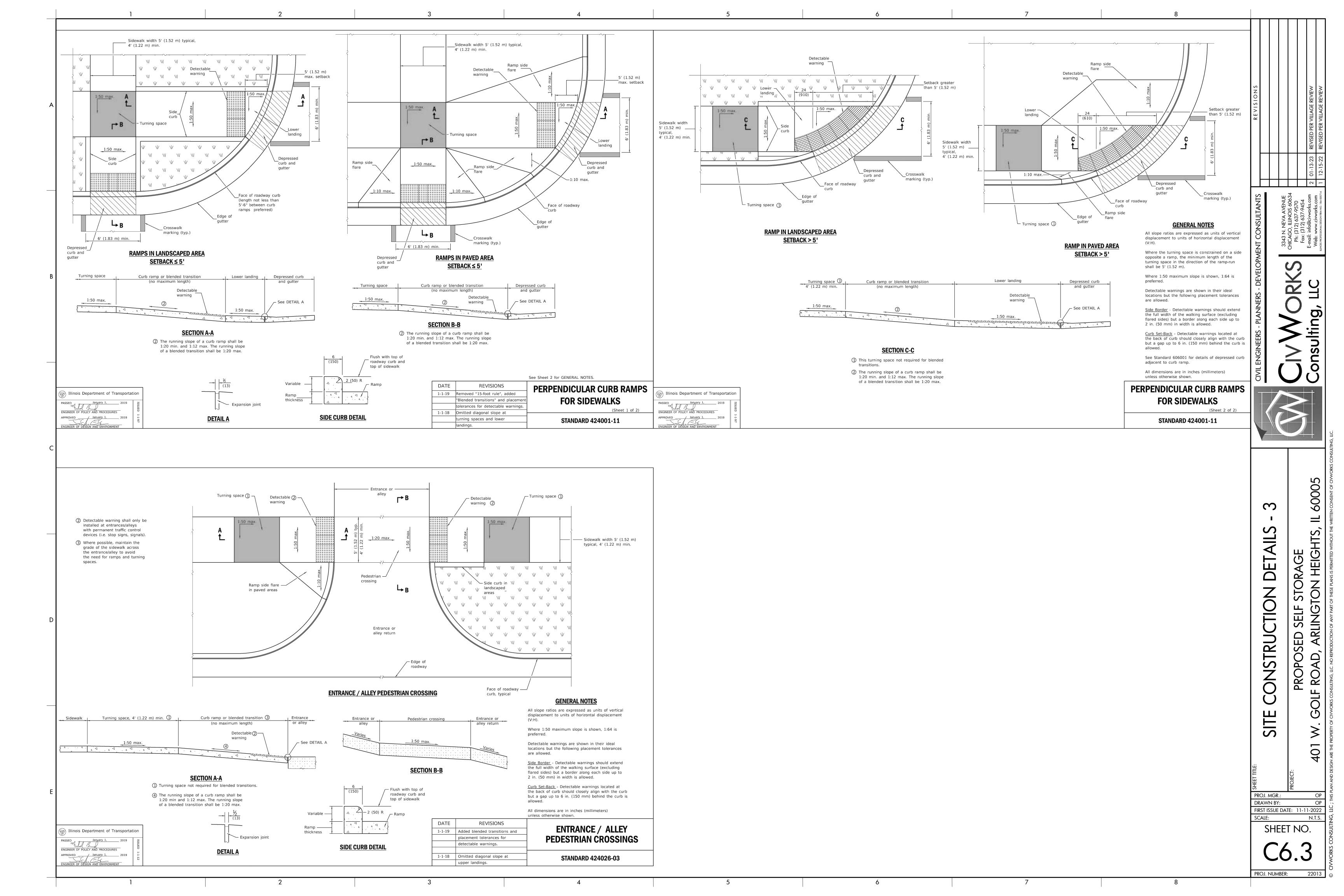


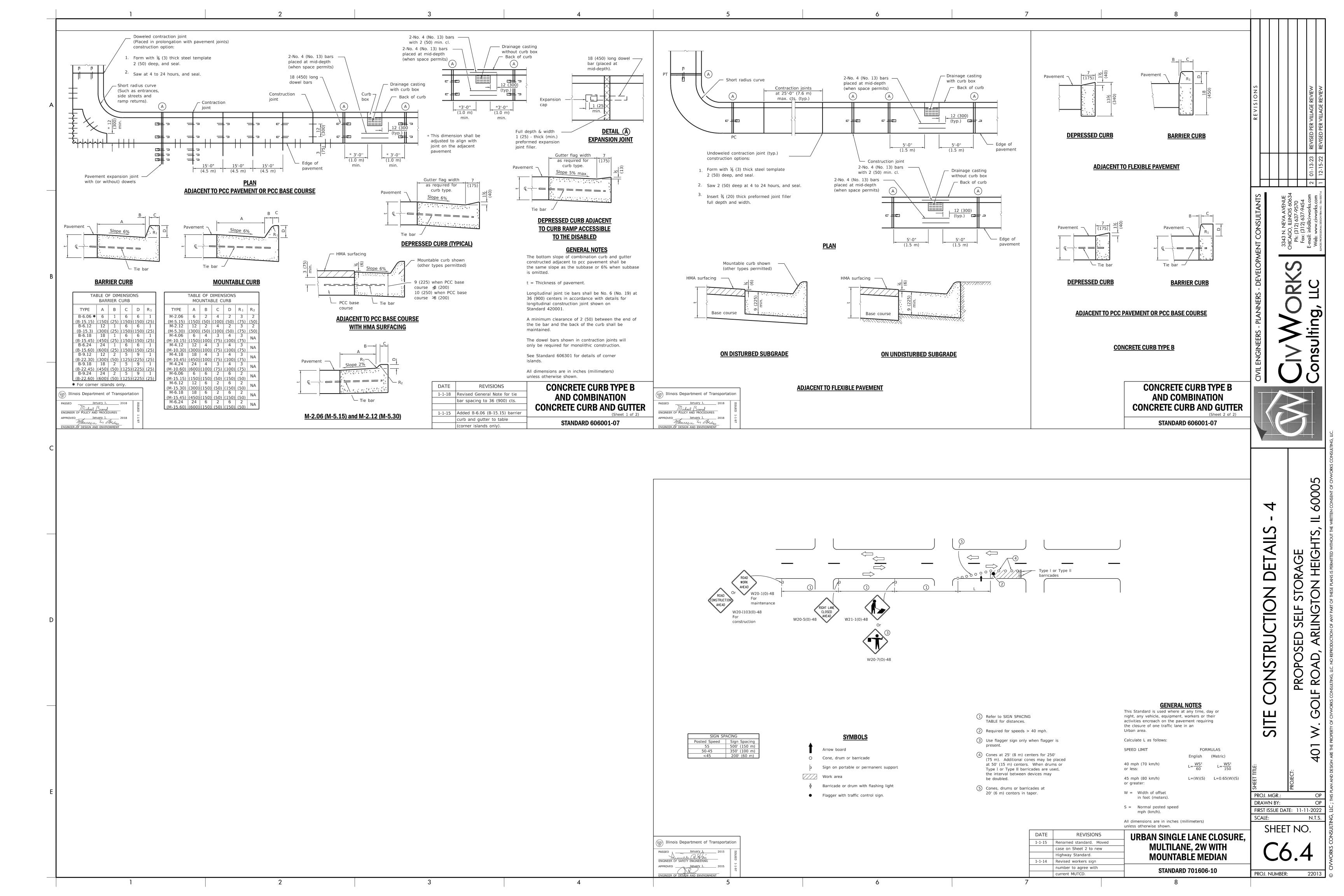


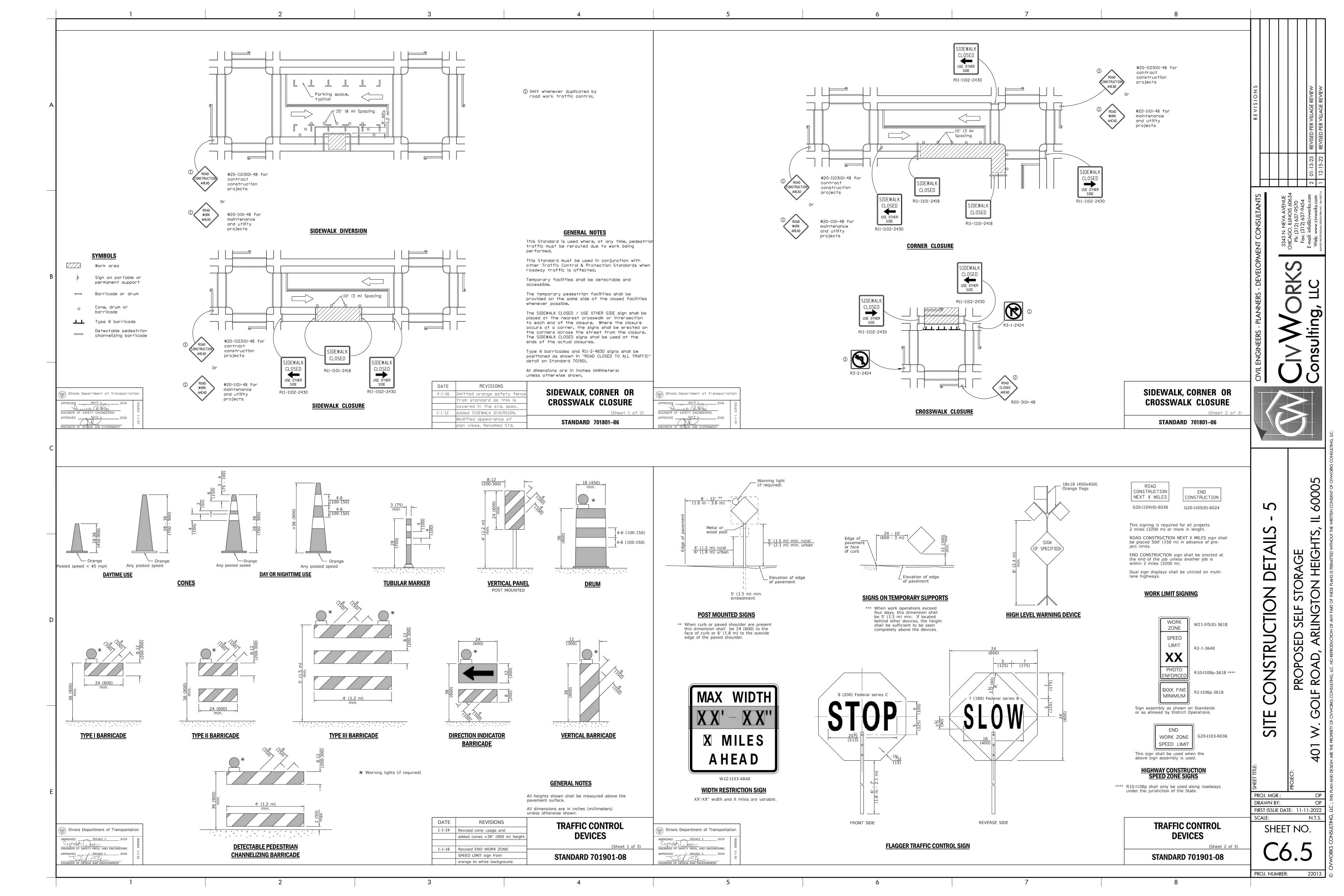


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FIRE HYDRANT DETAIL







DEFINITION OF TERMS

o. "ENGINEER" shall mean CivWorks Consulting, LLC, a Civil Engineering consultant on the

"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.

d. "CONTRACTOR" shall mean any person or entity performing any work described in the PLANS

"JURISDICTIONAL GOVERNMENTAL ENTITY" shall mean any municipal, county, state or federal unit of government from whom an approval, permit and/or review is required for any aspect of the subject project.

INTENT OF THE CONTRACT DOCUMENTS

The intention of the PLANS and SPECIFICATIONS is to set forth certain requirements of performance, type of equipment and structures, and standards of materials and construction. They may also identify labor and materials equipment and transportation necessary for the proper execution of the work but are not intended to be infinitely 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 spite of omissions of specific references to any minor component part. It is not intended, however, that materials or work not covered by or properly inferred from any heading, branch, class or trade of the SPECIFICATIONS shall be 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.

INTERPRETATION OF PLANS AND SPECIFICATIONS

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 by the ENGINEER, whose decision shall be final and binding on all parties concerned.

b. The ENGINEER will provide the CLIENT with such information as may be required to show revised or additional

. Should any discrepancies or conflicts on the PLANS or SPECIFICATIONS be discovered either prior to or after award of the contract, the ENGINEER's attention shall be called to the same before the work is begun thereon and 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

GOVERNING BODIES

All works herein proposed shall be completed in accordance with all requirements of any JURISDICTIONAL 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 requirements of any JURISDICTIONAL GOVERNMENTAL ENTITY, the CONTRACTOR shall immediately notify the ENGINEER in writing.

LOCATION OF UNDERGROUND FACILITIES

When the PLANS and SPECIFICATIONS include information pertaining to the location of existing underground facilities, such information represents only the opinion of the ENGINEER as to the approximate location of such 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 accuracy of the information shown on the PLANS and SPECIFICATIONS relative to the location of underground

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.

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

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.

DETAILED SPECIFICATIONS

I. EXCAVATION AND GRADING

A. STANDARDS

This work shall be completed in conformance with the applicable sections of the Standard Specifications for Road and Bridge Construction, Department of Transportation, State of Illinois, latest edition.

EARTHWORK CALCULATIONS AND CROSS SECTIONS

The CONTRACTOR understands that any earthwork calculations, quantities or cross sections that have been 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 subsurface investigations as necessary and his own calculations and cross sections to determine site soil conditions and earthwork volumes.

C. EXCAVATION AND EMBANKMENT

DEMOLITION

(a) CONTRACTOR shall perform all demolition work in accordance with all applicable Federal, State and local

(b) The CONTRACTOR shall coordinate all demolition with the JURISDICTIONAL GOVERNING ENTITY and CLIENT to ensure protection and maintenance of sanitary sewer and water utilities as necessary and to provide stormwater conveyance until new facilities are constructed, tested and placed into operation.

JURISDICTIONAL GOVERNING ENTITY approval of dust control procedures prior to demolition of any structures. Modification of dust control procedures shall be performed by the CONTRACTOR to the satisfaction of the JURISDICTIONAL GOVERNING ENTITY as requested.

(c) CONTRACTOR shall develop and implement a daily program of dust control and shall submit and obtain

(d) All asphalt pavement curb and gutter and miscellaneous structures shall be demolished by the CONTRACTOR and disposed of as approved by CLIENT.

(e) All existing sewers outside the building as indicated on the PLANS to be abandoned shall be removed from the site and disposed of by the CONTRACTOR.

(f) Voids left by any item removed under any proposed building, pavement or walk or within 24" thereof shall be filled and compacted with suitable materials by the CONTRACTOR.

(g) All fire access lanes within the project area shall remain in service, clean of debris, and accessible for use by

(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 Public Health, Latest Edition, and all applicable local rules and regulations.

(i) Any existing septic tanks and grease traps encountered shall have all liquids and solids removed and disposed of by a licensed commercial hauler in accordance with Governmental Jurisdictional Entity regulations, and the tank and grease traps shall then be filled with suitable materials or removed from the site and disposed of by the

(j) Any material containing asbestos found within existing structures shall be removed from the site and disposed of off-site by the CONTRACTOR in accordance with County, State and Federal regulations.

CLEARING, GRUBBING AND TREE REMOVAL

The site shall be cleared, grubbed, and trees and stumps removed where designated on the PLANS. Trees designated to remain shall be protected from damage.

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 stockpiles in locations as designated by the CLIENT.

Upon completion of parking lot improvements and installation of underground utilities a minimum of six inches (6") of topsoil shall be respread over all onsite areas which are disturbed by earthwork construction, except building pads and pavements, which shall be kept free from topsoil.

EXCAVATION AND EMBANKMENT (FILL)

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

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 ± 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	Grass Areas
Sandy Soils	Modified Proctor	95%	90%
Clavey 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%. 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 $\frac{1}{2}$ 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**

require undercutting.

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

II. UNDERGROUND IMPROVEMENTS

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 Bridge 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 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 ½" 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

SANITARY SEWER PIPE

B.SANITARY SEWERS AND APPURTENANCES

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

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

(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 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 shall be placed as shown on the detail

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.

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

III. ROADWAY AND PARKING LOT IMPROVEMENTS

C. WATER MAINS AND APPURTENANCES

(a) Ductile iron cement lined pipe conforming to the latest revision of ANSI SPECIFICATIONS A21 Class 52 with

Installation shall be in accordance with AWWA C603. All water main fittings shall be mechanical joint cast iron

deflection or greater. Minimum cover for all water mains, including services, shall be 5'-6" from the finished grade.

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

revision of AWWA Specification C500 with a rated working pressure of 200 psi in accordance with

except that butterfly valves shall be constructed on all water mains 16" diameter and larger.

weight of 300 lbs. or approved equal, with lids imprinted with the word "WATER". Valves shall be non-rising sten

Valves and boxes shall be constructed in conformance with the standard detail. Valve boxes shall be Minneapoli

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

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

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

ends of all services shall be marked with a 4"x4" post extending 36" above grade and painted blue. The

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

The CONTRACTOR shall maintain system pressure on existing water main at all times. Existing water main shall be

cleaned and the exterior disinfected prior to making the tap (all materials used shall conform to AWWA C110).

(a) Polyvinyl Chloride (PVC) Pipe: ASTM D3034, rated SDR 21, continually marked with manufacturer's name, pipe

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

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

(a) All existing field drainage tile or storm sewers encountered or damaged during construction shall either be

Footing drains shall be connected to sump pumps or discharged directly into storm sewers. Footing drains or

restored to their original condition, properly rerouted and/or connected to the storm sewer system.

covers the opening plus 2" of the structure as a minimum. Manholes shall include steps, frame & grate, bedding and

and furnish same to CLIENT. Water services shall include bedding and trench backfill.

report submitted to the JURISDICTIONAL GOVERNING ENTITY and the CLIENT.

PRESSURE CONNECTION TO EXISTING WATER MAIN

Bedding shall be placed as shown on the detail.

Storm sewer pipe shall conform to the following:

Storm sewer shall include bedding and trench backfill.

MANHOLES, INLETS & CATCH BASINS

Bedding shall be placed as shown on the detail

drainage tile shall not be connected to the sanitary sewer.

STORM SEWER PIPE

pipe with C443 joints.

BEDDING

MISCELLANEOUS

STORM SEWERS AND APPURTENANCES

size, cell classification, SDR rating. Joints shall conform to ASTM D3212.

Water services shall be type K copper size as shown on PLANS, and constructed where shown on the PLANS. The

CONTRACTOR shall keep accurate records of tap locations and service box locations, as well as the service lengths

ANSI Specification A21.10 or compact ductile iron fittings (AWWA C-153) with 250 psi working pressure.

150 psi working pressure or American Water Works Association Specification (AWWA), C150 or ASTM C296

WATER MAIN PIPE (3" AND LARGER

Water main pipe shall conform to the following:

Water main shall include bedding and backfilling.

VALVES AND VAULTS

VALVES AND BOXES

TAP, STOPS AND BOX

FIRE HYDRANTS

PRESSURE TEST

GOVERNING ENTITY and shall furnish same.

SMALL WATER SERVICES (2" DIAMETER OR LESS)

Work 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

The CONTRACTOR shall be responsible for all subgrade compaction and preparation to ± 0.1 -foot of the proposed subgrade elevation with the average subgrade elevation to be within ±0.02-feet of the proposed subgrade grade

Poured or monolithic concrete thrust blocks are required to brace all tees, plugs, caps, and bends of 11 1/4 degree BITUMINOUS BASE COURSE

Bituminous base course shall be installed where shown on the PLANS and shall have a Marshall stability of 750 or

AGGREGATE BASE COURSE TYPE 'B

placed where shown on the PLANS. and shall close by turning clockwise. All valves shall be resilient wedge gate or ball valves conforming to the latest

Compacted aggregate base course type "B" shall be constructed using IDOT Type CA6 materials and shall be

BITUMINOUS CONCRETE, BINDER AND SURFACE COURSE

JURISDICTIONAL GOVERNING ENTITY requirements, except that butterfly valves shall be constructed on all water Bituminous pavement shall consist of bituminous concrete binder and surface courses (IDOT) Class I, to the mains 16" diameter and larger. Valve vaults shall include valve, frame and grate, bedding, and trench backfill, if compacted thickness as shown on the PLANS. The base course shall be cleaned and primed in accordance with the JURISDICTIONAL GOVERNING ENTITY. The bituminous concrete surface course shall be placed after the base course has gone through one winter season, as directed by the CLIENT. Prior to the placement of the bituminous concrete surface, the JURISDICTIONAL GOVERNING ENTITY shall examine the completed pavement, including curb and gutter, and all failures shall be corrected by the CONTRACTOR.

with a rated working pressure of 200 psi in accordance with JURISDICTIONAL GOVERNING ENTITY requirements, Concrete sidewalks shall be constructed to width and thickness as shown on the PLANS. Sidewalks shall be thickened to a minimum of 8" at all driveways. All sidewalks shall be IDOT Class SI concrete, on aggregate base as shown on the detail. A 3/4" expansion joint shall be provided when meeting existing sidewalk.

CURB AND GUTTER

Curb and gutter shall be as per the detail shown on the PLANS, which shall include compacted aggregate base course under the curb and gutter. All contraction and expansion joints shall be constructed as per the detail.

CONCRETE PAVEMENTS

course Type B. Driveway entrance aprons shall be constructed with 6"x6" - W2.9xW2.9 welded wire fabric on an aggregate base course Type B. The CONTRACTOR shall sawcut joints in concrete pavements immediately after CONCRETE CURB REMOVAL AND REPLACEMENT

Concrete pavements shall be constructed as shown on the PLANS. Slabs shall be constructed on an aggregate base

The CONTRACTOR shall saw cut and remove the existing concrete curb where shown on the PLANS and install a curb of similar cross section and pavement to that removed (or depressed curb and gutter if shown on the PLANS) Upon completion of the curb all voids, if any, between the existing pavement and the new curb shall be filled with concrete to within 2" of the final surface, which is to be filled with bituminous pavement. The area behind the curb Disinfections shall meet all of the requirements of the State of Illinois, Environmental Protection Agency, Public Water shall be filled and compacted with embankment material within 6" of the top of the new curb. The CONTRACTOR 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 condition (i.e., sod, gravel, topsoil). Where proposed curb 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 saw cut and then two 18" long x ¾" (#6) dowel bars shall be drilled and installed 9" into the existing and proposed curb. Bars shall be installed in a location similar to the expansion joint in the curb.

PROOF ROLLING

The CONTRACTOR shall provide a fully loaded vehicle, size approved by the CLIENT or JURISDICTIONAL GOVERNING ENTITY if required. Proof rolling shall be observed by the CLIENT and JURISDICTIONAL GOVERNING ENTITY. It shall be at the CLIENT's option which of the following methods of proof rolling is to 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, then the binder course and the surface course may be placed without further proof rolling.

(b) If the binder course is placed it will be proof-rolled when the CLIENT requests and the surface course shall not be

The CONTRACTOR shall furnish and apply painted marking lines, letters & symbols of the patterns, sizes and colors

applied until the binder course passes a proper proof rolling. In any case, the base course and/or the binder course shall be repaired before proceeding to the next step.

PAVEMENT MARKING - PAINT

Federal SPECIFICATIONS and Standards:

where shown on the PLANS. Paint shall be as follows:

TT-P-85E and FS-TT-P-115F, Type I).

American Association of State Highway and Transportation (AASHTO) 1. AASHTO M248 Ready-Mixed White and Yellow Traffic Paints

PAVEMENT MARKING - THERMOPLASTIC

The CONTRACTOR shall furnish and apply extruded thermoplastic pavement marking lines, letters and symbols of the patterns, sizes and colors where shown on the PLANS. Thermoplastic pavement marking shall be installed in "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.

INSURANCE AND LEGAL

HOLD HARMLESS

To the fullest extent permitted by law, the CONTRACTOR shall waive any right of contribution and shall indemnify and hold harmless the ENGINEER, its agents, employees and consultants from and against all claims, damages, losses and expenses, including but not limited to, attorneys' fees and economic or consequential damages, arising out of or resulting from or in connection with the performance of their work. However, this indemnity agreement shall not require the CONTRACTOR to indemnify the ENGINEER, it s consultants, agents or employees against its

Claims, damages, losses and expenses as these words are used in the Agreement shall be construed to include, but not be limited to (1) injury or damage consequent upon the failure of or use or misuse of any hoist, rigging, blocking, scaffolding or any and all other kinds of items of equipment, whether or not the same be owned, furnished or loaned by the CONTRACTOR; (2) all attorneys' fees and costs incurred in bringing an action to enforce the provisions of this indemnity or any other indemnity; and (3) time expended by the party being indemnified and their employees, at their usual rates plus costs or travel, long distance telephone and reproduction of documents.

Only to the extent necessary to prevent this provision from being void under Statute 740 ILCS 35/1, this indemnity

agreement shall not require the CONTRACTOR to indemnify the ENGINEER, its consultants, agents or employees

INSURANCE

CONTRACTOR will purchase insurance to protect the ENGINEER and its consultants, agents, and employees from any claims for bodily injuries or property damage arising out of the construction work, including but not limited to naming the ENGINEER and its consultants, agents and employees as additional named insureds under the CONTRACTOR'S general liability policy applicable to the project, which must contain a clause stating that it is primary coverage for the ENGINEER with ENGINEER'S other applicable coverage to be considered excess.

against its own negligence.

The ENGINEER is intended to be a third party beneficiary of the construction contract.

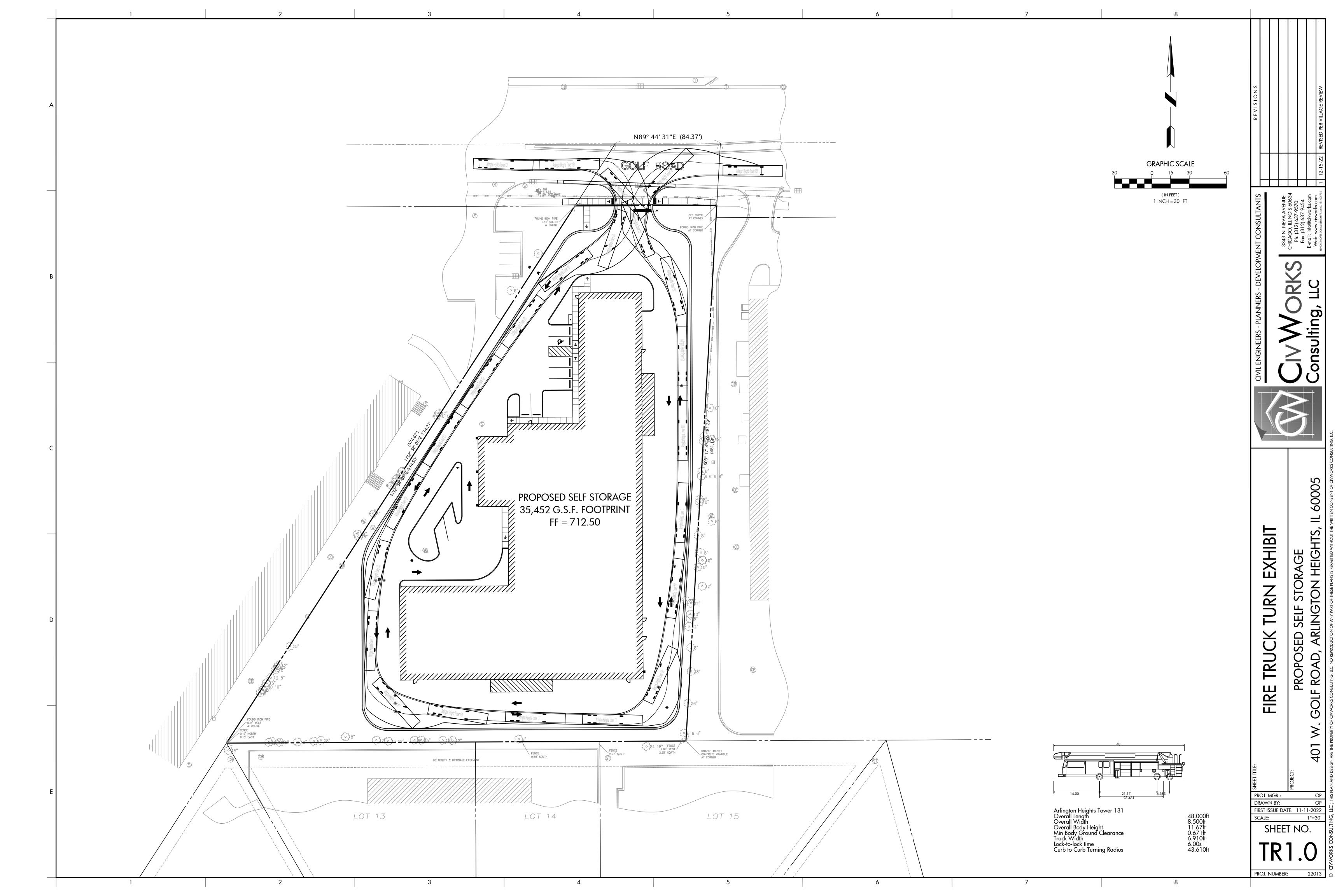
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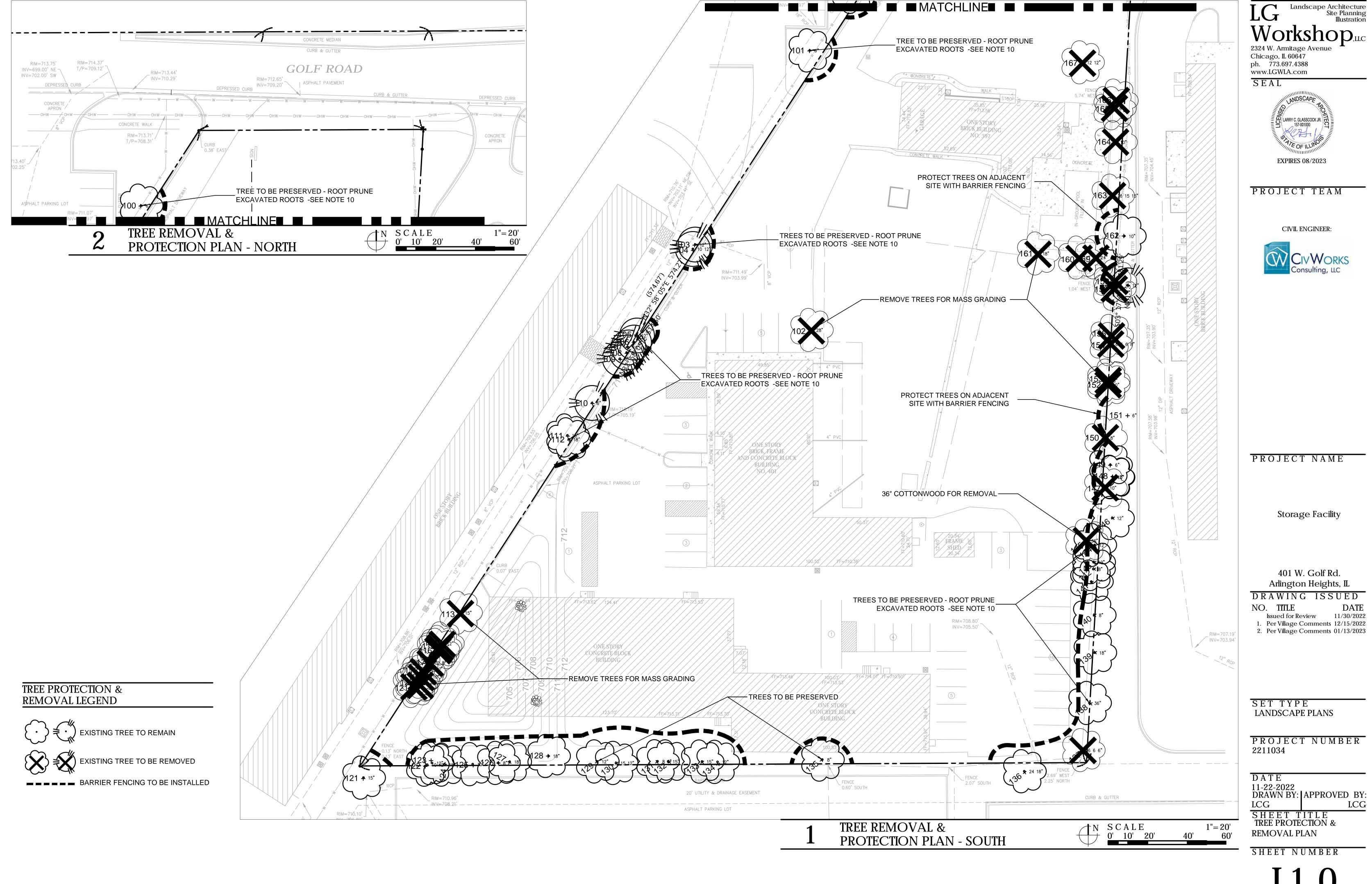
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SHEET NO.





Landscape Architecture Site Planning Illustration

SURVE	Y OF 1	EXISTING TREES		BEST 1	
TREE #	SIZE	SCIENTIFIC NAME	COMMON NAME	CONDITION	COMMENTS
100	6"	MALUS SSP	CRABAPPLE	4	OFFSITE - PRESERVE
101	6"	MALUS SSP	CRABAPPLE	4	OFFSITE - PRESERVE
102	22"	QUERCUS RUBRA	RED OAK	5	REMOVE FOR DEVEL.
103	12"	JUNIPERUS CHIN.	JUNIPER	5	OFFSITE - PRESERVE
104	12,10"	JUNIPERUS CHIN.	JUNIPER	5	OFFSITE - PRESERVE
105	12"	JUNIPERUS CHIN.	JUNIPER	5	OFFSITE - PRESERVE
106	8"	JUNIPERUS CHIN.	JUNIPER	4	OFFSITE - PRESERVE
107	10"	ACER NEGUNDO	BOX ELDER	4	OFF SITE, PROTECT
108	8"	JUNIPERUS SSP.	JUNIPER SSP.	2	OFF SITE, PROTECT
109	6"	JUNIPERUS CHIN.	JUNIPER	5	OFF SITE, PROTECT
110	6"	JUNIPERUS CHIN.	JUNIPER	4	OFF SITE, PROTECT
111	18"	POPULUS SSP	COTTONWOOD	2	REMOVE FOR GRAD.
112	18"	POPULUS SSP	COTTONWOOD	2	REMOVE FOR GRAD.
113	15"	POPULUS SSP	COTTONWOOD	2	REMOVE FOR GRAD.
114	12"	POPULUS SSP	COTTONWOOD	2	REMOVE FOR GRAD.
115	6"	POPULUS SSP	COTTONWOOD	2	REMOVE FOR GRAD.
116	12"	ACER NEGUNDO	BOX ELDER	2	REMOVE FOR GRAD.
117	12,8"	DEAD TRUNK		0	REMOVE
118	15"	POPULUS SSP.	COTTONWOOD	3	REMOVE FOR GRAD.
119	10,10"	DEAD TRUNK		0	REMOVE
120	12"	POPULUS SSP	COTTONWOOD	2	REMOVE FOR GRAD.
121	8"	UNIDENTIFIED		3	OFF SITE - PROTECT
122	10"	ULMUS PUMILA	SIBERIAN ELM	2	PROTECT
123	12"	ULMUS PUMILA	SIBERIAN ELM	3	PROTECT
124	15"	ULMUS PUMILA	SIBERIAN ELM	2	PROTECT
125	10"	POPULUS SSP	COTTONWOOD	3	PROTECT
126	8"	ULMUS PUMILA	SIBERIAN ELM	2	PROTECT
127	18"	POPULUS SSP	COTTONWOOD	3	PROTECT
128	18"	ULMUS PUMILA	SIBERIAN ELM	2	PROTECT
129	12"	POPULUS SSP	COTTONWOOD	3	PROTECT
130	12,15"	POPULUS SSP	COTTONWOOD	3	PROTECT
131	8"	POPULUS SSP	COTTONWOOD	4	PROTECT
132	15"	ULMUS PUMILA	SIBERIAN ELM	3	PROTECT
133	15"	ACER NEGUNDO	BOX ELDER	2	PROTECT

TREE SURVEY PERFORMED VIA GOOGLE STREETVIEW AND CLIENT PHOTOS. MOST OF THE TREES IN THE BOUNDARY TREE LINE ARE WEED TREES, WITH SEVERAL DESIRABLE BIRCH AND OAK TO BE REMOVED FROM THE CENTER OF THE SITE.

				BEST 1	
TREE #	SIZE	SCIENTIFIC NAME	COMMON NAME	CONDITION	COMMENTS
134	12"	ACER NEGUNDO	BOX ELDER	3	PROTECT
135	8"	UNIDENTIFIED	UNIDENTIFIED	4	PROTECT
136	24,18"	UNIDENTIFIED	UNIDENTIFIED	4	PROTECT
137	6,6,6"	RHAMNUS	BUCKTHORN	0	REMOVE
138	36"	ULMUS PUMILA	SIBERIAN ELM	3	REMOVE FOR DEVEL.
139	18"	CELTIS OCCIDENTALIS	COMMON HACKBERRY	4	PROTECT
140	8"	POPULUS SSP	COTTON WOOD	3	PROTECT
141	12"	POPULUS SSP	COTTON WOOD	2	PROTECT
142	8"	POPULUS SSP	COTTON WOOD	2	PROTECT
143	10"	POPULUS SSP	COTTON WOOD	2	PROTECT
144	12"	POPULUS SSP	COTTON WOOD	2	PROTECT
145	36"	POPULUS SSP	COTTON WOOD	2	REMOVE FOR DEVEL
146	12"	POPULUS SSP	COTTON WOOD	2	PROTECT
147	10"	POPULUS SSP	COTTON WOOD	2	REMOVE FOR DEVEL
148	12,10"	POPULUS SSP	COTTON WOOD	2	REMOVE FOR DEVEL
149	6"	MORUS ALBA	MULBERRY	2	REMOVE FOR DEVEL.
150	8"	POPULUS SSP	COTTONWOOD	2	REMOVE FOR DEVEL.
151	6"	POPULUS SSP	COTTONWOOD	2	OFF SITE, PROTECT
152	10"	POPULUS SSP	COTTONWOOD	3	REMOVE FOR DEVEL.
153	8"	POPULUS SSP	COTTONWOOD	3	REMOVE FOR DEVEL.
154	6,6,6,8"	MORUS ALBA	MULBERRY	3	REMOVE FOR DEVEL.
155	6"	DEAD STUMP		0	REMOVE
156	24"	PINUS STROBUS	WHITE PINE	3	REMOVE FOR DEVEL.
157	12"	ACER NEGUNDO	BOX ELDER	1	OFF SITE, PROTECT.
158	8"	DEAD STUMP		0	REMOVE
159	24"	PINUS STROBUS	WHITE PINE	3	REMOVE FOR DEVEL.
160	12"	ACER NEGUNDO	BOX ELDER	1	REMOVE FOR DEVEL.
161	18"	BETULA ALLEGHANIENSIS	YELLOW BIRCH	4	REMOVE FOR DEVEL.
162	10"	ACER NEGUNDO	BOX ELDER	1	OFF SITE, PROTECT.
163	36,10,15	DEAD STUMP		1	REMOVE
164	10"	ACER NEGUNDO	BOX ELDER	1	REMOVE FOR DEVEL.
165	6"	DEAD STUMP		0	REMOVE
166	6"	PYRUS SSP.	PEAR	3	REMOVE FOR DEVEL.
167	12"/12"	BETULA ALLEGHANIENSIS	YELLOW BIRCH	4	REMOVE FOR DEVEL.

TREE REPLACEMENT SCHEDULE - ALL TREES

NUMBER OF REPLACEMENT TREES	QTY. REMOVED	QTY. REQUIRED
8	2	16
7	0	0
6	1	6
5	5	25
4	5	20
3	10	30
2	3	6
TOTAL TREES	26	103
	8 7 6 5 4 3 2	8 2 7 0 6 1 5 5 4 5 3 10 2 3

SIZE OF EXISTING TREE 36" 30-35" 26-29" 20-25"	NUMBER OF REPLACEMENT TREES 8 7 6 5	QTY. REMOVED 0 0 0 3	QTY. REQUIRED 0 0 0 15
13-19" 8-12" 3-7"	4 3 2	1 0 1	0 0 2
	TOTAL TREES	4	17

26

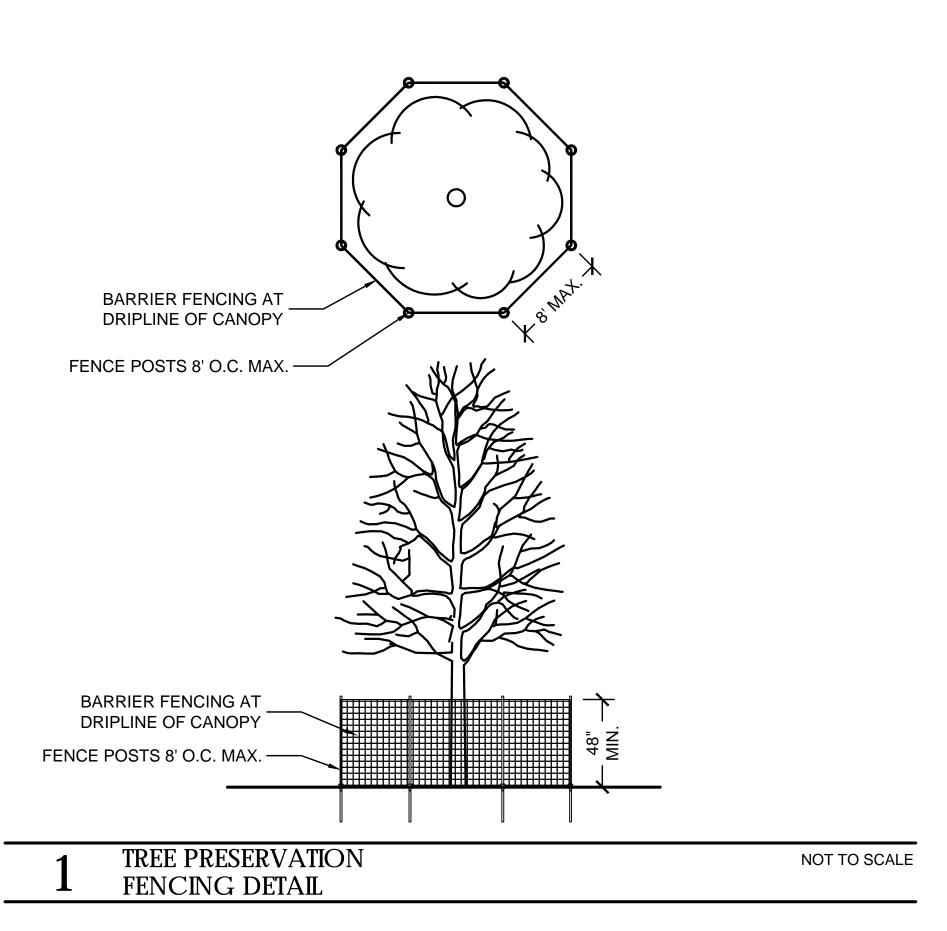
TOTAL REPLACEMENT TREES (4" CAL.) TO BE PLANTED ON-SITE

EXISTING VEGETATION DESCRIPTION

THE PROJECT SITE CONSISTS OF A VACANT RESIDENTIAL / COMMERCIAL SITE. BOUNDARY TREES ALONG THE PROPERTY LINES CONSIST OF MAINLY LARGE WEED TREES AND STUMPS. SEVERAL NICE SPECIMENS ARE INCLUDED IN THE CENTER OF THE SITE INCLUDING; BIRCH, A RED OAK, JUNIPERS AND CRABAPPLES ARE IN GOOD CONDITION.

TREE PROTECTION & REMOVAL NOTES

- 1. CONTRACTOR SHALL OBTAIN ALL NECESSARY STATE AND LOCAL PERMITS AND PERMISSIONS TO PRUNE, REMOVE, AND/OR TRANSPLANT ANY TREES ON SITE.
- 2. DEAD AND DYING MATERIAL ON THE SITE SHALL BE REMOVED OR PRUNED. MATERIALS NOT LABELED ON THE PROTECTION PLAN SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR REMEDIATION.
- 3. DURING CONSTRUCTION EXISTING TREES OVER FOUR INCHES IN CALIPER SHALL BE PROTECTED WITH BARRIER FENCING.
- 4. BARRIER SHALL BE CONSTRUCTED OF A MIN. 3' TALL SNOW FENCE OR SIMILAR AND SUPPORT POSTS MIN. 6' O.C. AND SHALL BE ERECTED ONE FOOT BEYOND THE DRIP LINE OFF ALL EXISTING TREES ON SITE AND ADJACENT SITES TO REMAIN.
- 5. BARRIER FENCING SHOWN ON THE PLAN IS APPROXIMATE. CONTRACTOR SHALL ADJUST LOCATION OF BARRIER TO POSITION OUTLINED IN COMMENT 4.
- 6. NO EXCESS SOIL OR ADDITIONAL FILL, BUILDING MATERIALS OR DEBRIS SHALL BE PLACED WITHIN THE PROTECTIVE BARRIER.
- 7. NO VEHICLES OR HEAVY MACHINERY SHALL BE ALLOWED TO WORK WITHIN THE BARRIER AREA.
- 8. NO ATTACHMENTS OR WIRES, OTHER THAN PROTECTIVE GUY WIRES, SHALL BE ATTACHED TO ANY OF THE TREES WHICH ARE WITHIN PROTECTIVE BARRIER.
- 9. STUMPS OR TREE REMAINS NOT TO BE FULLY EXCAVATED SHALL BE REMOVED. A STUMP GRINDER SHALL BE USED TO REMOVE ALL REMAINING ROOTS AND WOODY MATERIAL. WITHIN A 24" RADIUS OF THE TREE TRUNK TO MIN. 6" BELOW GRADE. DISTURBED AREA SHALL BE BACKFILLED WITH COMPACTED TOPSOIL TO MEET SURROUNDING GRADES.
- 10. ROOT PRUNING. IF SOIL UNDER TREE CANOPIES IS TO BE EXCAVATED BELOW EXISTING SUBGRADE LEVEL, A LICENSED ARBORIST SHALL BE ON-SITE TO PERFORM ROOT PRUNING ON ANY ROOTS EXPOSED BY EXCAVATION LARGER THAN 1-1/2" IN DIAMETER. IF ROOTS LARGER THAN 2" IN DIAMETER, CROWN OF TREE SHALL BE PRUNED TO COMPENSATE FOR THE ROOT LOSS.



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SEAL

LARRY C. GLASSCOCK JR. TCT

157-001000

EXPIRES 08/2023

www.LGWLA.com

PROJECT TEAM

CIVIL ENGINEER:



PROJECT NAME

Storage Facility

401 W. Golf Rd. Arlington Heights, IL

DRAWING ISSUED

NO. TITLE

Issued for Review DATE

11/30/2022

Per Village Comments 12/15/2022
 Per Village Comments 01/13/2023

SET TYPE

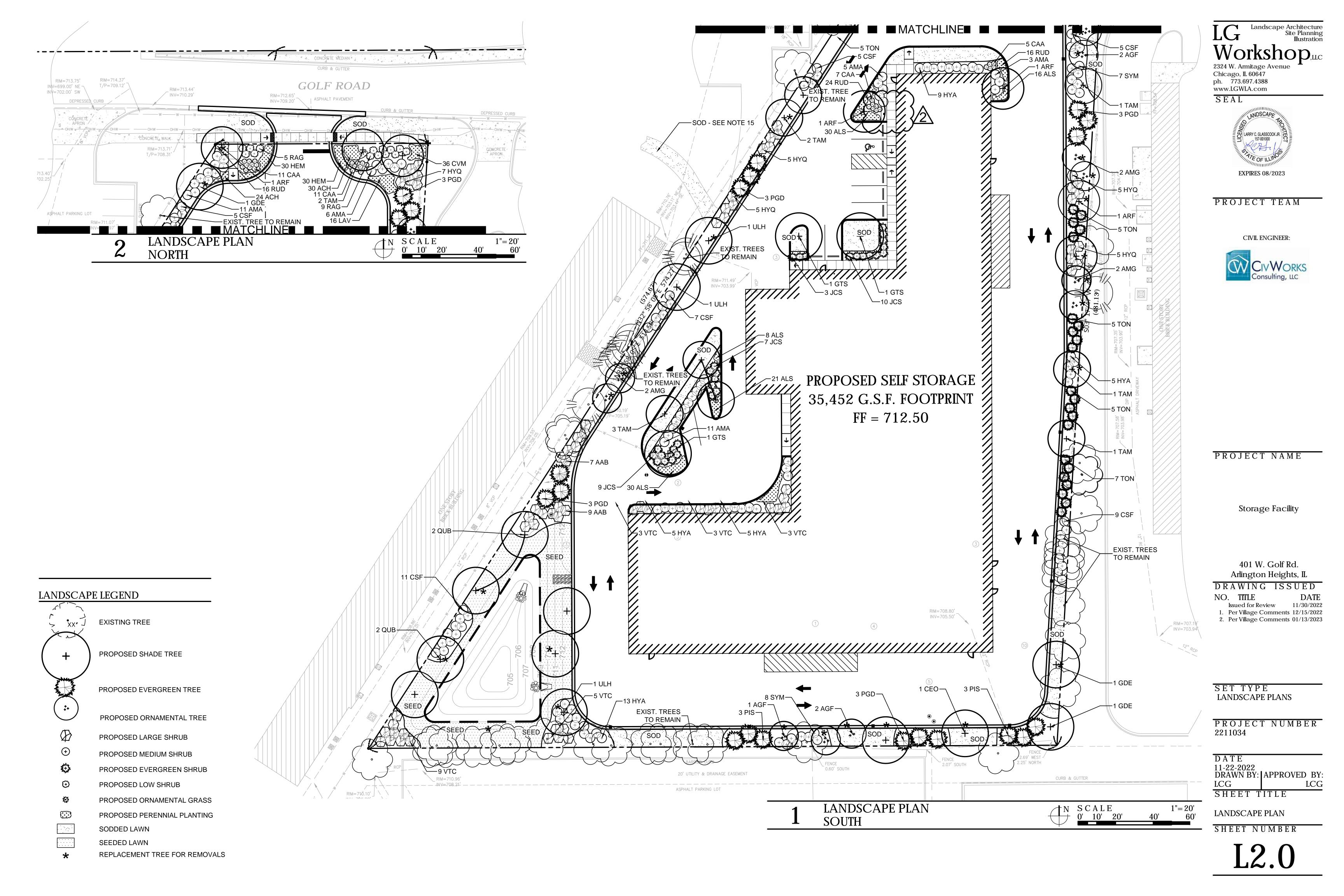
LANDSCAPE PLANS

PROJECT NUMBER 2211034

DATE
11-22-2022
DRAWN BY: APPROVED BY:
LCG LCG
SHEET TITLE
TREE PROTECTION &
REMOVAL PLAN

SHEET NUMBER

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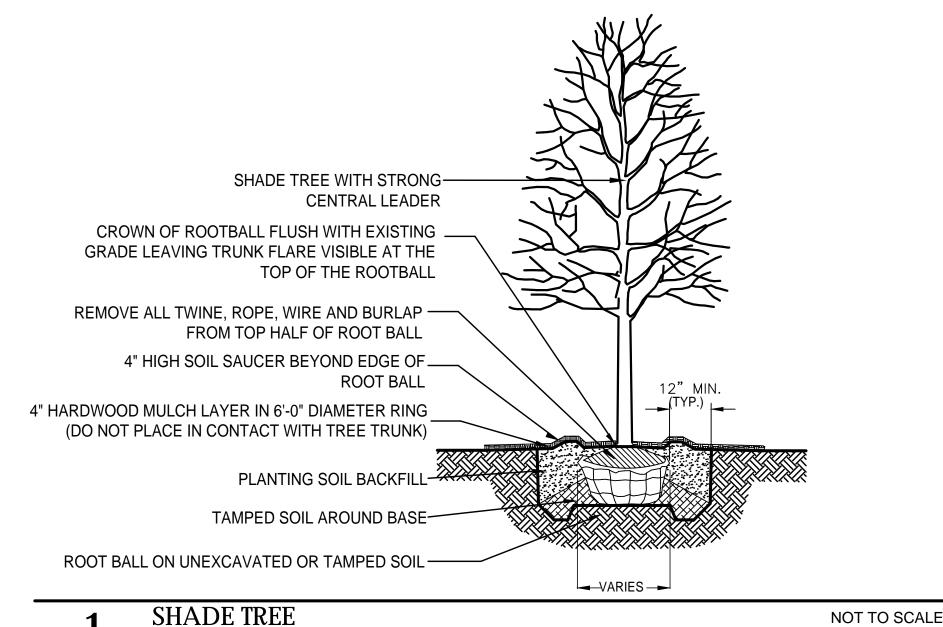


LANDSCAPE NOTES

- CONTRACTOR SHALL OBTAIN ALL NECESSARY LOCAL PERMITS AND PERMISSIONS TO INSTALL THE PROPOSED IMPROVEMENTS
- 2. ALL LANDSCAPE MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE VILLAGE OF ARLINGTON HEIGHTS LANDSCAPING CODES AND ZONING ORDINANCES.
- 3. PRIOR TO COMMENCING ANY WORK, CONTRACTOR SHALL HAVE DIGGERS HOTLINE LOCATE AND MARK ALL UNDERGROUND UTILITY FACILITIES AND LINES.
- 4. ALL PLANT MATERIALS (EXCEPT FOR GROUNDCOVER, ANNUALS, AND PERENNIALS) SHALL BE BALLED AND BURLAPPED STOCK AND MEET CURRENT STANDARDS OF THE AMERICAN ASSOCIATION OF NURSERYMEN'S STANDARD FOR NURSERY STOCK (ANSI 260.1-1986) OR EQUAL. PLANT MATERIALS MUST BE SUPPLIED WITHIN A 150 MILE RADIUS OF PROJECT SITE WITHIN NORTHEAST ILLINOIS. CONTRACTOR MAY SUBSTITUTE CONTAINER STOCK FOR SHRUBS IF SIZES ARE EQUAL TO SPECIFIED B&B STOCK, WITH THE APPROVAL OF THE LANDSCAPE ARCHITECT.
- 5. IF SPECIFIED PLANTS ARE NOT AVAILABLE AT THE TIME OF ORDERING, PLANTS WITH SIMILAR WHOLESALE VALUE AND LANDSCAPE CHARACTERISTICS MAY BE SUBSTITUTED UPON THE APPROVAL OF THE LANDSCAPE ARCHITECT AND VILLAGE STAFF.
- 6. SOIL IN GROUNDCOVER BEDS SHALL BE AMENDED USING 2 INCHES OF MUSHROOM COMPOST INCORPORATED INTO THE TOP 4 INCHES OF SOIL.
- 7. DISTURBED AREAS TO RECEIVE SOD SHALL BE TILLED TO 6" DEPTH AND FINE GRADED TO PROVIDE SMOOTH BASE SURFACE. IF EXISTING SOIL IS A MAJORITY OF CLAY OR UNSUITABLE, 2" OF FINE GRADED TOPSOIL SHALL BE ADDED PRIOR TO TILLING. EXISTING SOD AREAS SHALL HAVE TURF REMOVED WITH AUTOMATED SODCUTTER OR HAND SPACE TO REMOVE ALL BLADES AND ROOTS. 1" OF FIND GRADED TOPSOIL SHALL BE TILLED AND GRADED.
- 8. TREE AND SHRUB BACKFILL MIXTURE SHALL BE 2 PARTS EXIST. NATIVE TOPSOIL AND 1 PART SPHAGNUM PEAT MOSS W/ DECOMPOSED MANURE.
- 9. ALL SHRUB BEDS AND INDIVIDUAL TREE PLANTINGS, UNLESS OTHERWISE NOTED, SHALL RECEIVE A 4 INCH LAYER OF SHREDDED HARDWOOD MULCH. ALL GROUNDCOVER, ANNUAL AND PERENNIAL BEDS SHALL RECEIVE A 2 INCH LAYER OF THE SAME MULCH MATERIAL. COSTS FOR MULCH SHALL BE CONSIDERED INCIDENTAL AND SHALL BE INCLUDED IN THE COST OF PLANTINGS.
- 10. NURSERY TAGS (SPECIES, SIZE) FOR ALL SHADE TREES SHALL REMAIN ATTACHED TO TREES UNTIL FINAL APPROVAL FROM MUNICIPALITY.
- 11. THE LANDSCAPE CONTRACTOR SHALL PROVIDE THE OWNER A BONDED WRITTEN ONE-YEAR WARRANTY AGREEMENT (BEGINNING ON THE OWNER'S POSSESSION DATE). THIS AGREEMENT SHALL COVER MAINTENANCE, REPAIR, AND REPLACEMENT OF ALL DEAD OR DAMAGED LANDSCAPING TO PRESERVE THE SAME QUANTITY AND QUALITY AS INITIALLY APPROVED.
- 12. CONTRACTOR SHALL PROVIDE A SEPARATE ESTIMATE FOR AN AUTOMATIC UNDERGROUND IRRIGATION SYSTEM FOR COMPLETE EFFECTIVE COVERAGE OF ALL LAWN AREAS AND SHRUB BEDS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL AND APPLY FOR ALL NECESSARY PERMITS PRIOR TO COMMENCING WORK. IRRIGATION PLANS SHALL INCLUDE HUNTER PRO-C CONTROLLER W/WIRELESS SOLAR SYNC STATION AND HUNTER SPRAYHEADS AND NOZZLES. IRRIGATION WORK SHALL BE WARRANTY ALL LABOR AND MATERIALS FOR 1 FULL YEAR AFTER INSTALLATION AND TESTING.
- 13. TREES AND SHRUBS SHALL NOT BE LOCATED CLOSER THAN TEN (10) FEET TO FIRE HYDRANTS, TRANSFORMERS OR OTHER ABOVE GROUND UTILITIES. ANY DISCREPANCY ON THE PLAN RELATED TO THESE PROXIMATE UTILITIES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR RESOLUTION.
- 14. ADJACENT DRIVEWAY. GC SHALL APPROACH OWNER OF NEIGHBORING PROPERTY TO REQUEST PERMISSION TO REMOVE DRIVEWAY AND REPLACE WITH SOD. INSTALL PER NOTE 7 ABOVE.

PLANT LIST

SYM	SIZE	•	BOTANICAL NAME	COMMON NAME	COMMEN
	UOUS SHA		EES	<u> </u>	
ARF	4.0" cal.	7	Acer rubrum 'Frank Jr.'	Redpointe Red Maple	B&B
CEO	4.0" cal.	4	Celtis occidentalis	Common Hackberry	B&B
GDE	4.0" cal.	3	Gymnocladus dioicus 'Espresso'	Espresso Kentucky Coffeetree	B&B
GTS	4.0" cal.	1	Gleditsia triacanthos 'Shademaster'	Shademaster Honeylocust	B&B
TAM	4.0" cal.	8	Tilia americana 'MckSentry'	American Sentry Linden	B&B
ULH	4.0" cal.	5	Ulmus 'Heritage'	Heritage Elm	B&B
ORNA	MENTAL TI	REES			
AGF	8' multi.	5	Acer ginnala 'Flame'	Flame Amur Maple	B&B
AMG	8' multi	6	Amelanchier x grandiflora.	Shadblow Serviceberry	B&B
EVERO	GREEN TRI	EES		•	•
PGD	8' HT.	15	Picea glauca 'Densata'	Black Hills Spruce	B&B
PIS	8' HT.	6	Pinus strobus	White Pine	B&B
TON	6' HT.	27	Thuja occidentalis 'Nigra'	Dark Green Arborvitae	B&B
DECID	UOUS SHF	RUBS			•
AAB	36" ht.	16	Aronia arbutifolia 'Brilliantissima'	Brilliant Red Chokeberry	B&B
AMA	24" ht.	36	Aronia melanocarpa 'Elata'	Elata Chokeberry	B&B
CSF	24" ht.	42	Cornus stolonifera 'Farrow'	Arctic Fire Redtwig Dogwood	B&B
HYA	24" ht.	39	Hydrangea arbor. 'annabelle'	Annabelle Hydrangea	B&B
HYQ	36" ht.	27	Hydrangea quercifolia 'Alice'	Alice Oakleaf Hydrangea	B&B
RAG	18" w.	14	Rhus aromatica 'Gro-Low'	Gro-Low Fragrant Sumac	B&B
SYM	24" ht.	15	Syringa patula 'Miss Kim'	Miss Kim Korean Lilac	B&B
VTC	36" ht.	25	Viburnum trilobum 'Alfredo'	Alfredo American Cranberrybush	B&B
EVERO	GREEN SH	RUBS			-
JCS	24" ht.	29	Juniperus chinensis 'Sea Green'	Sea Green Juniper	B&B
	MENTAL G	RASSE	-	<u> </u>	•
CAA	#3 cont.	34	Calamagrostis acutifolia 'Strictus'	Strictus Feather Reed Grass	
GROU	NDCOVER	/ PERI	ENNIALS		
ACH	#1 cont.		Achillea Millefolium 'Paprika'	Paprika Yarrow	18" O.C
ALS	#1 cont.		Allium 'summer beauty'	Summer Beauty Wild Onion	18" O.C
CVM	#1 cont.		Coreopsis verticillata 'Moonbeam'	Moonbeam Coreopsis	18" O.C
HEM	#1 cont.	60	Hemerocallis x 'Stella de oro'	stella de oro daylily	18" O.C
LAV	#1 cont.	16	Lavendula 'Munstead strain'	Munstead English Lavender	24" O.C
RUD	#1 cont.	56	Rudbeckia fulgida 'Goldsturm'	Goldsturm Black-Eyed Susan	18" O.C
SOD	sq. yd.		Sodded Lawn		
SEED		440	Seeded Native detention - See Below		
NURS	ERY INC. T	AMPIC		SEED MIX AVAILABLE THROUGH GEN MANUFACTURERS RECOMMENDAT AR EROSION CONTROL BLANKET.	



SEAL

LARRY C. GLASSCOCK JR. TECT

157-001000

EXPIRES 08/2023

2324 W. Armitage Avenue

Chicago, IL 60647 ph. 773.697.4388

www.LGWLA.com

Landscape Architecture

PROJECT TEAM

CIVIL ENGINEER:



PLANTING DETAIL

ORNAMENTAL TREE

PLANTING DETAIL

CROWN OF ROOTBALL FLUSH ___

REMOVE BURLAP FROM TOP 1/2

OF BALL OR ENTIRE CONTAINER

WITH EXISTING GRADE

3" HARDWOOD MULCH —

EXISTING SUBGRADE

PLANTING DETAIL

PLANTING SOIL BACKFILL

NOTES:

NEVER CUT LEADERS TREE
SHALL BEAR SAME RELATION TO
FINISHED GRADE AS IT BORE TO
PREVIOUS GRADE.

REMOVE BURLAP FROM
TOP 1/3 OF BALL

4" HARDWOOD MULCH

UNDISTURBED SUBGRADE
PLANTING SOIL

ROOT BALL ON UNEXCAVATED
OR TAMPED SOIL

PROJECT NAME

NOT TO SCALE

NOT TO SCALE

NOT TO SCALE

401 W. Golf Rd.

Storage Facility

Arlington Heights, IL

DRAWING ISSUED

NO. TITLE DATE

Issued for Review 11/30/2022

1. Per Village Comments 12/15/2022
2. Per Village Comments 01/13/2023

SHRUB

SET TYPE

LANDSCAPE PLANS

PROJECT NUMBER 2211034

D A T E
11-22-2022
DRAWN BY: APPROVED BY:
LCG LCG

SHEET TITLE LANDSCAPE PLAN / DETAILS & NOTES

SHEET NUMBER

L3.0

4 PERENNIAL / ANNUAL PLANTING DETAIL