#### ADDENDUM

Addendum No. 1

Owner:City of OwossoProject:2021 Retaining Wall ProjectEngineer:City of Owosso

#### NOTICE TO ALL PROSPECTIVE BIDDERS

BIDS DUE: March 16, 2021

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This Addendum is a part of the Contract Documents and modifies the previously issued Bidding Documents. Acknowledge receipt of this Addendum in the space provided on the "Signature Page and Legal Status" section of the Bid Proposal. Failure to do so may result in rejection of the Bid.

#### ITEM NO. 1:

Insert the attached plan set for the retaining wall to the bidding documents. This change is due to the plan set being omitted in the original posting.

END OF ITEM NO. 1

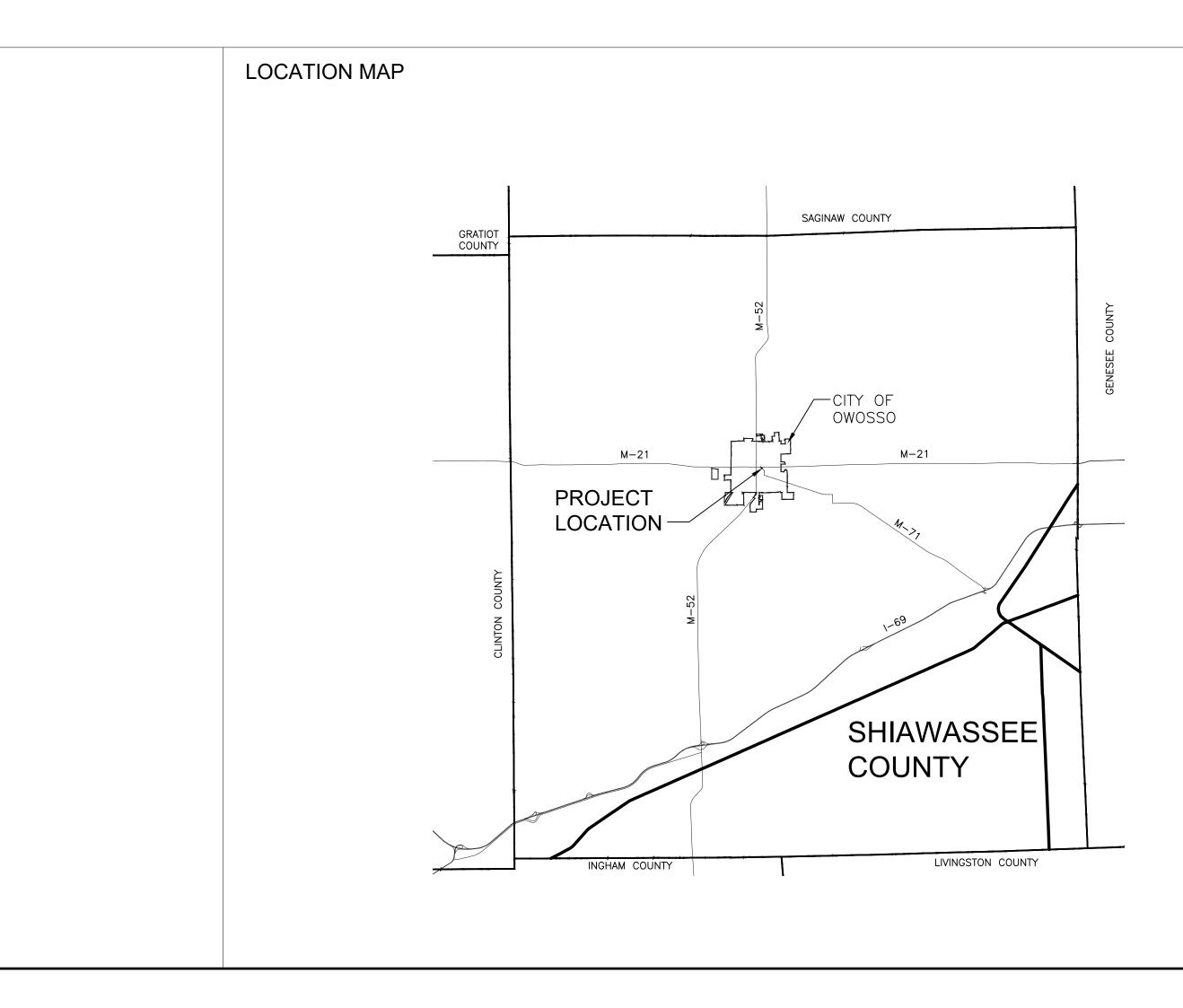
#### END OF ADDENDUM NO. 1

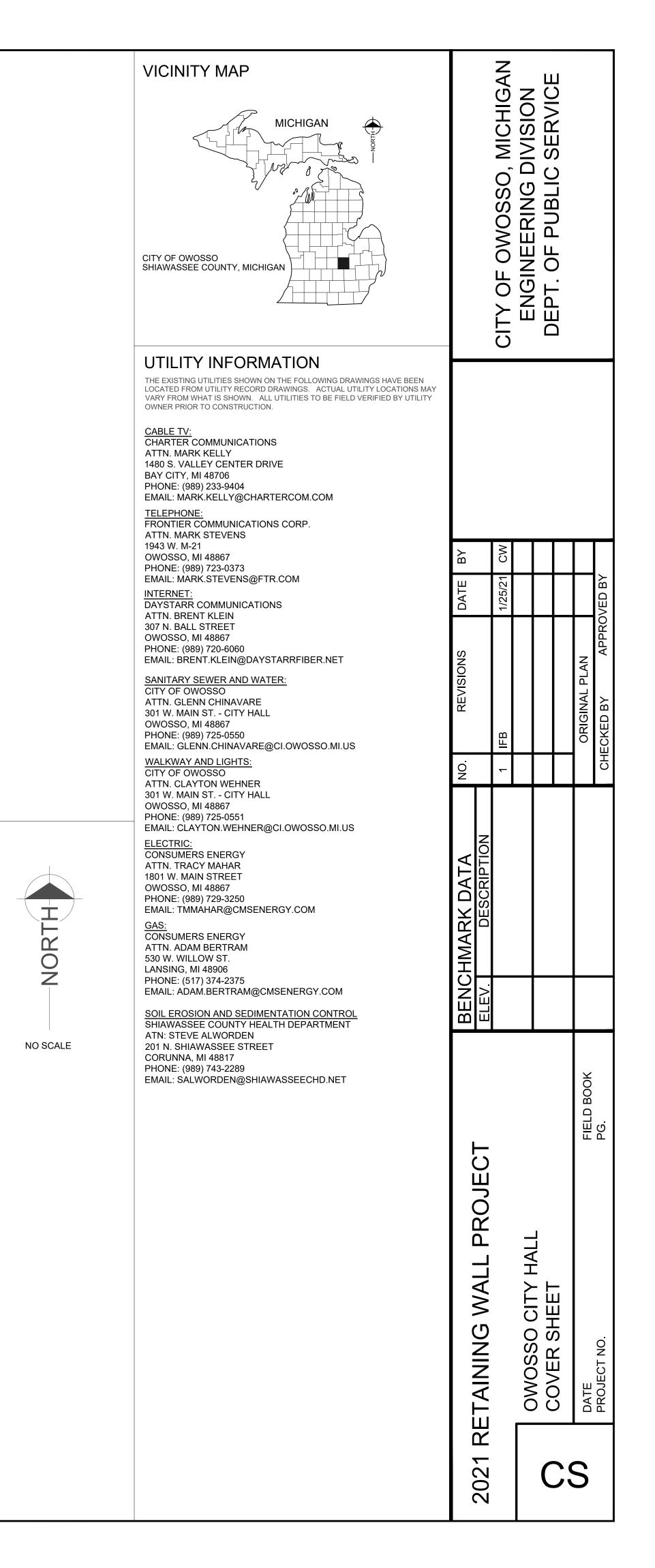
# **City of Owosso** 2021 Retaining Wall Project

# Shiawassee County, Michigan

SHEET LIST

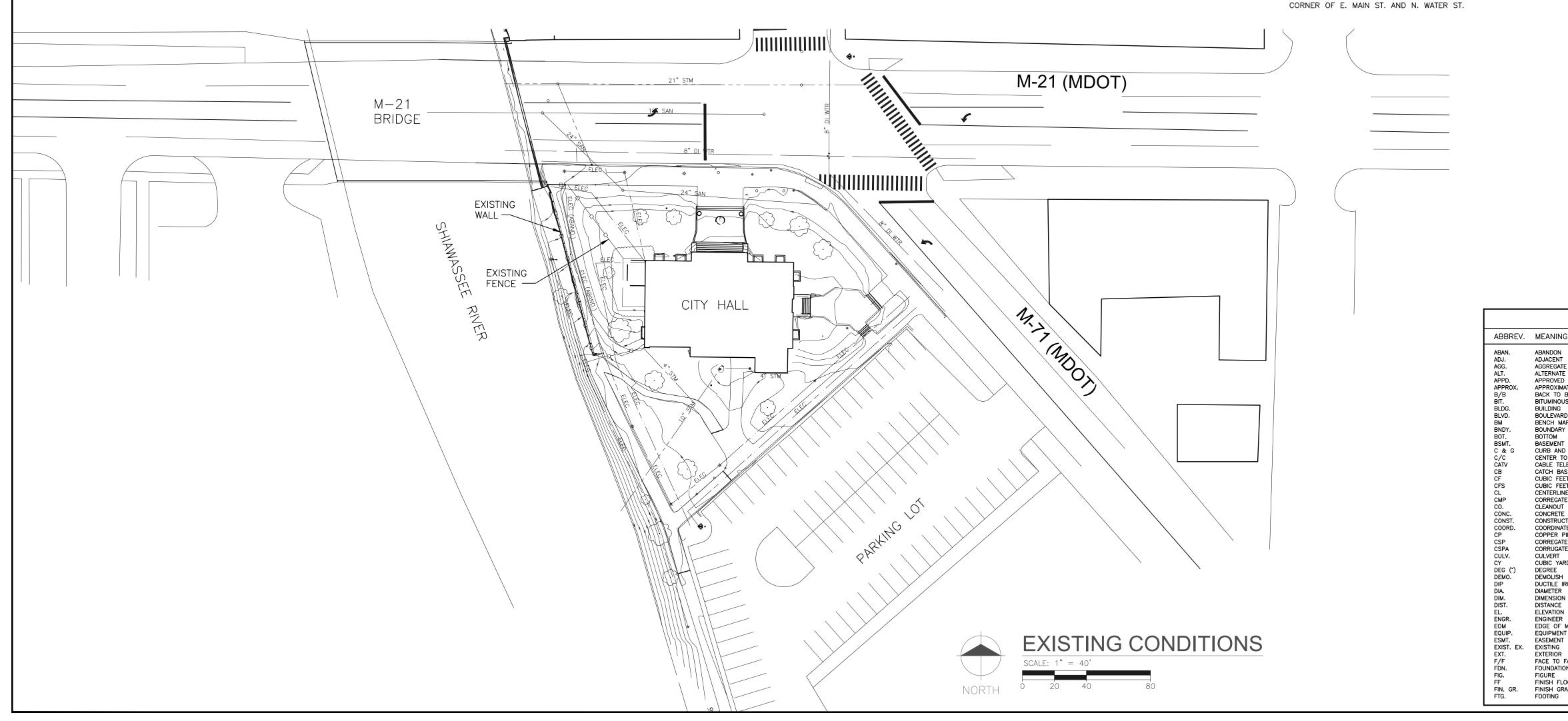
- C-1 EXISTING CONDITIONS
- C-2 SOIL EROSION & SEDIMENTATION CONTROL PLAN & DETAILS
- C-3 REMOVAL PLAN
- C-4 UTILITY/GRADING/LAYOUT PLAN
- D-1 DETAIL SHEET
- D-2 DETAIL SHEET





#### GENERAL NOTES

- 1. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL CODES, RULES AND REGULATIONS. OBTAIN ALL NECESSARY LOCAL, STATE AND FEDERAL PERMITS AND PAY PERMIT FEES FOR THE WORK OR CONFIRM REQUIRED PERMITS HAVE BEEN OBTAINED BY OTHERS PRIOR TO COMMENCING CONSTRUCTION.
- 2. BE RESPONSIBLE AT ALL TIMES FOR SITE SAFETY IN ACCORDANCE WITH THE LATEST REQUIREMENTS OF THE OCCUPATIONAL HEALTH AND SAFETY AUTHORITY HAVING JURISDICTION.
- 3. CALL MISS DIG @ 1-800-482-7171 AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION TO CONFIRM THE LOCATIONS OF EXISTING BURIED UTILITIES. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE PART OF THE "MISS DIG" ALERT SYSTEM. COORDINATE THE RELOCATION OF EXISTING UTILITIES WITH THE UTILITY OWNER. BE RESPONSIBLE FOR PROTECTING EXISTING UTILITIES AND REPAIRING DAMAGE TO EXISTING UTILITIES RESULTING FROM THE WORK. BE RESPONSIBLE FOR THE COSTS OF REPAIRING OR REPLACING ANY DAMAGED UTILITIES AT NO EXPENSE TO THE OWNER.
- 4. COMPLY WITH THE CONDITIONS AND REQUIREMENTS OF THE SOIL EROSION AND SEDIMENTATION CONTROL PERMIT, INCLUDING BUT NOT LIMITED TO, CERTIFIED STORMWATER OPERATOR REQUIREMENTS. INSTALL ALL CONTROL MEASURES PRIOR TO COMMENCING CONSTRUCTION.
- 5. PROVIDE TRAFFIC CONTROL BARRICADES, SIGNS, LIGHTS, ETC. IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AS NECESSARY FOR THE PROTECTION AND SAFETY OF THE PUBLIC. MAINTAIN THESE DEVICES AT ALL TIMES DURING CONSTRUCTION.
- 6. MAINTAIN A CLEAN WORK AREA. THOROUGHLY CLEAN AND/OR SWEEP STREETS AND ROADWAYS AS REQUIRED BY THE GOVERNING AUTHORITY.
- MAINTAIN ACCESS TO EXISTING DRIVEWAYS AND MAIL BOXES DURING CONSTRUCTION. COORDINATE WITH 7. THE AUTHORITIES HAVING JURISDICTION. CONDUCT OPERATIONS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS AND OTHER ADJACENT OCCUPIED OR USED FACILITIES. ANY CLOSURE REQUIRES PERMISSION FROM THE AUTHORITIES HAVING JURISDICTION.
- 8. RESTORE ALL DISTURBED AREAS NOT COVERED BY OTHER SURFACE TREATMENT WITH CITY APPROVED SOD.
- 9. PROTECT EXISTING SITE IMPROVEMENTS TO REMAIN FROM DAMAGE. RESTORE/REPLACE DAMAGED IMPROVEMENTS TO ORIGINAL CONDITION ACCEPTABLE TO PARTIES HAVING JURISDICTION.
- 10. KEEP THE APPROVED SET OF PROJECT DRAWINGS ON SITE AT ALL TIMES. REDLINE THE ACTUAL LOCATIONS AND DIMENSION (VERTICAL AND HORIZONTAL) OF CONSTRUCTED OR EXISTING ITEMS WHICH DIFFER FROM OR ARE NOT SHOWN ON THE ORIGINAL DRAWINGS. SUBMIT THESE RECORD DRAWINGS TO THE ENGINEER AT THE COMPLETION OF THE WORK.
- 11. PROTECT TREES TO REMAIN FROM DAMAGE DURING CONSTRUCTION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 12. HIRE A LICENSED LAND SURVEYOR TO WITNESS AND REPLACE ALL PROPERTY IRONS/SURVEY MONUMENTS WHICH WILL BE ALTERED IN ANY WAY DURING CONSTRUCTION.
- 13. DO NOT SCALE DRAWINGS TO DETERMINE DIMENSIONS. REFER DISCREPANCIES TO THE ENGINEER FOR CLARIFICATION.
- 14. THE INFORMATION CONTAINED ON THESE DRAWINGS PERTAINING TO EXISTING CONDITIONS, SUCH AS BUT NOT LIMITED TO, UTILITIES, TOPOGRAPHY, SUBSURFACE CONDITIONS, IS FURNISHED SOLELY AS THE BEST INFORMATION AVAILABLE AND ITS ACCURACY IS NOT GUARANTEED. THE USE OF THIS INFORMATION DOES NOT PROVIDE RELIEF FOR ANY RESPONSIBILITY FOR DAMAGES DUE TO ANY INACCURACIES.
- 15. ALL REMOVED MATERIALS ARE THE PROPERTY OF THE CONTRACTOR. CLEANUP AND DISPOSE OF ALL EXCESS MATERIALS OFF SITE AT A LOCATION DESIGNATED FOR THIS USE AND IN ACCORDANCE WITH LOCAL REGULATIONS OR AT AN ON SITE LOCATION DESIGNATED BY THE OWNER.
- 16. USE (2) TWO BENCH MARKS FOR VERIFICATION OF ALL CONSTRUCTION ELEVATIONS. SET ADDITIONAL BENCH MARKS TO COMPLY WITH THIS REQUIREMENT.
- 17. RESTORE ALL STREET SURFACES, DRIVEWAYS, CULVERTS, ROADSIDE DRAINAGE DITCHES, AND OTHER PUBLIC OR PRIVATE STRUCTURES THAT ARE DISTURBED OR DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES TO A CONDITION EQUAL TO OR BETTER THAN EXISTING CONDITIONS AND TO THE SATISFACTION OF THOSE HAVING JURISDICTION, UNLESS NOTED OTHERWISE IN THE PLANS.



#### <u>TOPOGRAPHY – PLAN</u>

	SHRUBS		GRAVEL SURFACE
N.K.	CONIFEROUS TREE		PAVED SURFACE
$\bigcirc$	DECIDUOUS TREE		EXISTING CURB & G
	HEDGE EDGE OF WOODS	O	CONCRETE MONUMEN
<u>مالد مالد</u> <u>بالد مالد</u>	MARSH (SWAMP)	0	PROPERTY IRON
		•	SET PROPERTY IRON
	EXISTING DITCH		LOT LINE (AS PLAT
	EDGE OF WATER	—-Z	PROPERTY HOOK (COMMON PROPERTY
*	LIGHT		TITLE LINE / PROPE
———————————————————————————————————————	GUY ANCHOR		ROW LINE
	UTILITY POLE		SECTION LINE
⊳	SIGN		BENCH MARK
	GUARD RAIL	-\$-	SECTION CORNER
- <del></del>	RAILROAD TRACKS SCALE: 1" = 100' OR MORE	<b>+</b>	CENTER OF SECTION
	EXISTING FENCE	<b>+</b>	QUARTER CORNER

BENCH MARK INFORMATION BENCH MARK A ELEVATION: 727.21 PAINTED "X" ON NORTHEAST CORNER OF CONCRETE TRANSFORMER PAD LOCATED APPROXIMATELY 105 FEET SOUTH OF CITY HALL ADJACENT TO PARKING LOT BENCH MARK B ELEVATION: 731.75 PAINTED "X" ON SOUTHERLY ANCHOR BOLT OF TRAFFIC LIGHT STRAIN POLE LOCATED ON THE NORTHEAST

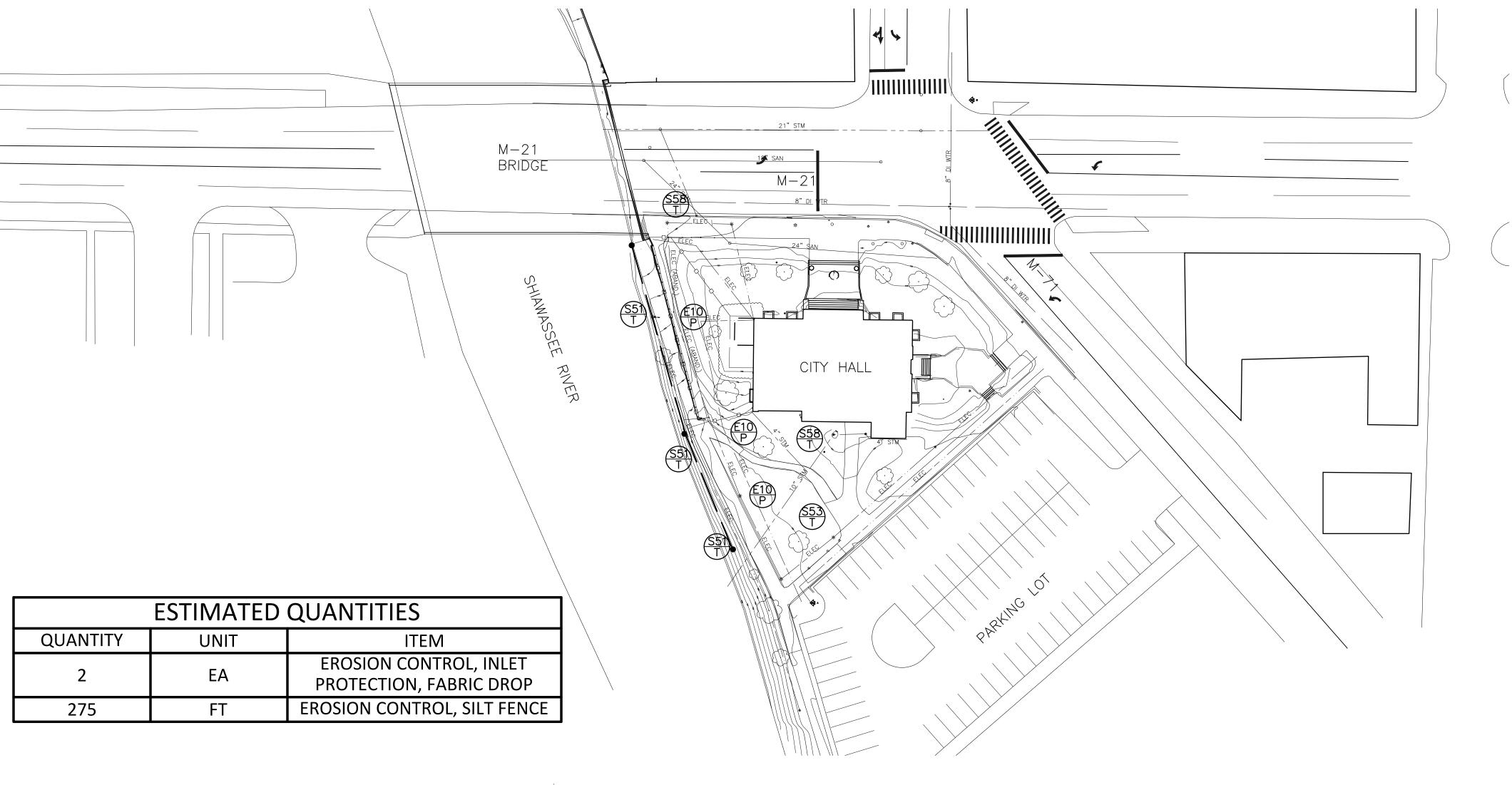
	<u>EXISTING</u>	JTILITIES
GRAVEL SURFACE	8" SAN.	SANITARY SEWER & MANHOLE
- PAVED SURFACE	<u>12" STM.</u> –O	STORM SEWER & MANHOLE
EXISTING CURB & GUTTER	$\oplus$	CATCH BASIN LAWN TYPE
CONCRETE MONUMENT	⊗ 	VALVE HYDRANT
PROPERTY IRON		PLUG
SET PROPERTY IRON	6" WTR.	WATER MAIN
LOT LINE (AS PLATTED)		FORCE MAIN
	2" GAS	GAS MAIN
PROPERTY HOOK (COMMON PROPERTY OWNERSHIP)		UNDERGROUND ELECTRIC
TITLE LINE / PROPERTY LINE		FIBER OPTICS
		UNDERGROUND TELEPHONE
ROW LINE		OIL TRANSMISSION LINE
SECTION LINE		UNDERGROUND STEAM
		UNDERGROUND SPRINKLER
BENCH MARK		CABLE TELEVISION
SECTION CORNER	<b> </b>	TELEPHONE PEDESTAL
		PIPE-ONLY CULVERT FLARED END SECTION CULVERT
CENTER OF SECTION		

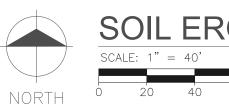
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	EASEMENT CENTERLINE
	EASEMENT LINE
∆	SURVEY LINE STATIONING
Δ	TRAVERSE POINT
۲	SOIL BORING LOCATION
	PROPOSED PAVEMENT MARKING (PAINTING)
Ę	PROPOSED BARRIER FREE PARKING

G	ABBREV.	MEANING	ABBREV.	MEANING
	GEN.	GENERATOR	PERF.	PERFORATED
-	GND.	GROUND	PI	POINT OF INTERSECTION
E	GPD	GALLONS PER DAY	PIV	POST INDICATOR VALVE
E	GPM	GALLONS PER MINUTE	PL	PROPERTY LINE
	HDPE	HIGH DENSITY POLYETHELYNE	POB	POINT OF BEGINNING
IATE	HDWL.	HEADWALL	POE	POINT OF ENDING
BACK	н.	HEIGHT	PRC	POINT OF REVERSE CURVE
US	HORIZ.	HORIZONTAL	PROP.	PROPOSED
	HP	HIGH POINT	PSF	POUNDS PER SQUARE FOOT
RD	HWL	HIGH WATER LEVEL	PSI	POUNDS PER SQUARE INCH
ARK	HWY.	HIGHWAY	PT	POINT OF TANGENCY
Y	HYD.	HYDRANT	PVC	POLYVINAL CHLORIDE
<u> </u>	ID	INSIDE DIAMETER	PVC	POINT OF VERTICAL CURVE
T	INV	INVERT ELEVATION	PVI	POINT OF VERTICAL INTERSECTION
D GUTTER	INCL.	INCLUDE	PVMT.	PAVEMENT
	LAT.		PVT	POINT OF VERTICAL TANGENCY
LEVISION	LF	LINEAL FEET	QTY.	QUANTITY
ASIN	L.	LENGTH	R.	RADIUS
ET DED GEGOND	LP	LOW POINT	RCP	REINFORCED CONCRETE PIPE
ET PER SECOND	LS		RED.	REDUCER
	LWL	LOW WATER LEVEL	REF.	REFERENCE
TED METAL PIPE	M/L	MORE OR LESS	REQD.	REQUIRED
T I	MAINT.	MAINTENANCE	REV.	REVISION
E	MATL. MAX.	MATERIAL	RJ ROW	RESTRAINED JOINT
CTION	MAX. MB.	MAXIMUM MAILBOX	SF	RIGHT OF WAY SQUARE FOOT
PIPE	MD. MDNR	MAILBUX MICHIGAN DEPARTMENT OF NATURAL RESOURCES	SPEC.	SQUARE FOOT SPECIFICATION
TED STEEL PIPE	MDOT	MICHIGAN DEPARTMENT OF NATURAL RESOURCES	SFEC.	SIDE SLOPE
TED STEEL PIPE ARCH	MDPH	MICHIGAN DEPARTMENT OF TRANSFORTATION	STA.	STATION
TED STEEL FIFE ARCH	MFGR	MANUFACTURER	STD.	STANDARD
RD	MGD	MILLION GALLONS PER DAY	STL.	STEEL
	MGD MH.	MANHOLE	SYD	SQUARE YARD
1	MIN.	MINIMUM	TC	TOP OF CURB
IRON	MISC.	MISCELLANEOUS	TAN.	TANGENT
	MJ	MECHANICAL JOINT	TEMP.	TEMPORARY
N	MON.	MONUMENT	TOC	TOP OF CASTING
	NA	NOT APPLICABLE	T/W	TOP OF WALL
۱ I	NIC	NOT IN CONTRACT	TYP.	TYPICAL
	NRCP	NON-REINFORCED CONCRETE PIPE	UD.	UNDERDRAIN
METAL	NTS	NOT TO SCALE	UTIL.	UTILITY
NT I	OC	ON CENTER	VB	VALVE BOX
r i	OD	OUTSIDE DIAMETER	VCP	VITRIFIED CLAY PIPE
	ŌĒ	OVERHEAD ELECTRIC	VERT.	VERTICAL
	OP	FIBER OPTICS	w/	WITH
FACE	ORIG.	ORIGINAL	w/o	WITHOUT
ON	OT	OVERHEAD TELEPHONE	WL	WATER LEVEL
	PC	POINT OF CURVE	WWF	WELDED WIRE FABRIC
LOOR	PCC	POINT OF COMPOUND CURVATURE	XFMR.	TRANSFORMER
RADE	PE	POLYETHYLENE		
	PE PERF.	POLYETHYLENE PIPE PERFORATED		

		<b>BENCHMARK DATA</b>	NO. REVISIONS	DATE	ВҮ	
		ELEV. DESCRIPTION				
			1 IFB	1/25/21 0	CW	CITY OF OWOSSO, MICHIGAN
						ENGINFERING DIVISION
(						
<u>)</u>						
-1	DATE FIELD BOOK		ORIGINAL PLAN	7		
	PROJECT NO. PG.		CHECKED BY	APPROVED BY		





#### MDMB SOIL EROSION AND SEDIMENTATION CONTROL MEASURES

KEY	DESCRIPTION	DETAIL	CHARACTERISTICS
E10	SODDING		On areas and slopes where immediate stabilization is required.
ES35	DEWATERING		Use where construction activities are limited by the presence of water and dry work is required.
ES38	COFFERDAM/SHEET PILINGS		Constructed along or within water corridor or waterbody to provide dry construction area.
S51	SILT FENCE		Use adjacent to critical areas to prevent sediment laden sheet flow from entering these critical areas.
S53	STABILIZED CONSTRUCTION ACCESS		Used at every point where construction traffic enters or leaves a construction site.
S58	INLET PROTECTION FABRIC DROP		Use at stormwater inlets, especially at construction sites.

## SOIL EROSION AND SEDIMENTATION CONTROL PLAN & DETAILS

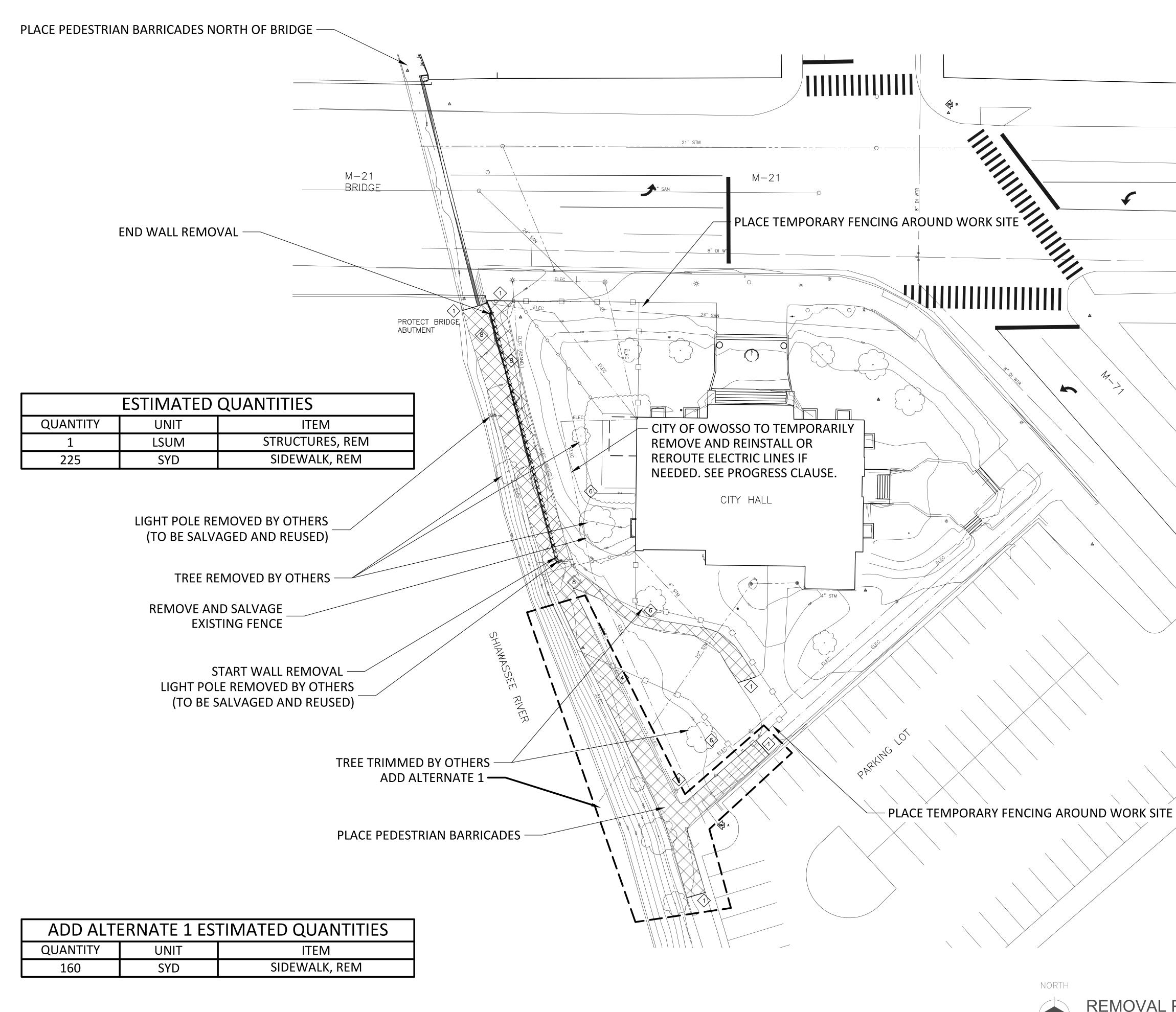
#### NOTES

- 1. CONSTRUCT AND MAINTAIN SOIL EROSION CONTROL MEASURES IN ACCORDANCE WITH THE PROJECT DOCUMENTS AND THE SOIL EROSION AND SEDIMENTATION CONTROL PERMIT ISSUED FOR THE PROJECT.
- 2. PROVIDE SOIL EROSION AND SEDIMENTATION CONTROL MEASURES PRIOR TO STARTING DEMOLITION, EARTHWORK AND EXCAVATION. MEASURES INDICATED ON THESE DRAWINGS ARE MINIMUM REQUIREMENTS. SUPPLEMENT THESE REQUIREMENTS AS REQUIRED BY CONSTRUCTION PHASING AND SITE CONDITIONS TO COMPLY WITH PERMIT.
- CONTAIN SEDIMENT ON THE SITE. DO NOT ALLOW SEDIMENT TO COLLECT IN OFF SITE AREAS OR IN WATERWAYS. WATERWAYS INCLUDE NATURAL AND MANMADE OPEN DITCHES, STREAMS, STORM DRAINS, LAKES AND PONDS.
- DIRECT WATER FROM DEWATERING ACTIVITIES THROUGH A FILTER PRIOR TO DISCHARGING TO THE PROPOSED STORM SEWER SYSTEM.
- 5. PROVIDE AND MAINTAIN INLET FILTERS AT ALL NEW AND EXISTING CATCH BASINS AND INLET STRUCTURES WHERE INPACTED BY CONSTRUCTION DRAINAGE UNTIL PERMANENT EROSION CONTROL MEASURES ARE IN PLACE.
- 6. ENSURE SOIL AND DEBRIS FROM THE SITE REMAINS ON SITE THROUGH THE USE OF CLEAN STONE CONSTRUCTION EXITS. DIRECT ALL CONSTRUCTION TRAFFIC TO THESE EXITS. MAINTAIN STONE EXITS AND ADD ADDITIONAL STONE WHEN ACCESS ROAD BECOMES INEFFECTIVE DUE TO LOSE OF STONE OR WHEN COVERED WITH MUD.
- 7. INSPECT THE SOIL EROSION AND SEDIMENT CONTROL MEASURES ONCE EACH WEEK AND WITHIN TWENTY-FOUR (24) HOURS OF A PRECIPITATION EVENT WHICH RESULTS IN A STORM WATER DISCHARGE FROM THE SITE. A LOG OF INSPECTION REPORTS SHALL BE MAINTAINED AND ACCESSIBLE IN ACCORDANCE WITH NPDES REQUIREMENTS.
- 8. PROVIDE AND MAINTAIN SILT FENCE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MAINTENANCE INCLUDES THE REMOVAL OF BUILT-UP SEDIMENT WHEN THE SEDIMENT ACCUMULATES TO 1/3 OF THE HEIGHT OF THE SILT FENCE. REMOVE, REPLACE, RETRENCH, OR RE-BACKFILL THE SILT FENCE IF IT FAILS. REINSTALL FENCE DAMAGED BY CONSTRUCTION.
- 9. PROVIDE AND MAINTAIN INLET FILTERS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MAINTENANCE CONSISTS OF REMOVING ALL SEDIMENT WITH A STIFF BRISTLE BROOM OR SQUARE POINT SHOVEL. IF THE INLET FILTER IS DAMAGED, REPLACE BOTH THE STONE AND GEOTEXTILE FILTER FABRIC.
- 10. RESTORE DESIGNATED TURF AREAS IN ACCORDANCE WITH SPECIFICATIONS.
- 11. MAINTAIN DUST CONTROL DURING CONSTRUCTION. WATER TANK TRUCKS SHALL BE USED ON ON-SITE DISTURBED AREAS.
- 12. PROMPTLY REMOVE ALL MUD, DIRT AND DEBRIS TRACKED ONTO EXISTING ROADS FROM THE SITE.

SOIL EROSION CONTROL SOIL EROSION CONTROL MEASURES

TEMPORARY MEASURE

		<b>BENCHMARK DATA</b>	NO	REVISIONS	рате ву		
		ELEV. DESCRIPTION					
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							ENGINEERING DIVISION
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ADD ALTI	ERNATE 1 ES	TIMATED QUANTITIES
QUANTITY	UNIT	ITEM
160	SYD	SIDEWALK, REM

LEGEND

SAWCUT
CURB R
REMOVE
REMOVE
REMOVE FULL DE
REMOVE

EMOVE	PIPE		
EMOVE	OBJECT	(WA	LL)
EMOVE ULL DE		SUC	PAVEMEN

REMOVE	CONCRETE	PAVEMEN

REMOVAL

CHANNELIZING DEVICE – DRUM

#### NOTES

- THE EXTENT OF REMOVALS AND DEMOLITION SHALL BE FIELD 1 VERIFIED BY ENGINEER PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DEVIATIONS FROM INFORMATION SHOWN.
- 2. PRIOR TO CONSTRUCTION ALL FENCING, BARRICADES, ENCLOSURES, ETC., MUST BE INSTALLED AND APPROVED BY OWNER OR ENGINEER.
- 3. DISPOSE OF DEMOLITION AND EXCAVATION MATERIALS IN ACCORDANCE WITH CONTRACT DOCUMENTS.
- 4. SOIL EROSION AND SEDIMENTATION CONTROL MEASURES MUST BE IN PLACE PRIOR TO STARTING REMOVALS AND DEMOLITION.
- 5. UNLESS SPECIFICALLY NOTED FOR REMOVAL ON THE PLANS, ALL SIDEWALKS, DRIVES, CULVERTS, DRAINAGE STRUCTURES, AND ABOVE AS WELL AS BELOW GRADE UTILITIES SHALL BE PROTECTED. ALL SUCH ITEMS DAMAGED OR DESTROYED DURING CONSTRUCTION SHALL BE REMOVED AND REPLACED WITH NEW AT NO ADDITIONAL COST TO THE OWNER.
- 6. PROTECT EXISTING TREES TO REMAIN. NO GROUND DISTURBANCE OR STORAGE OF MATERIAL/EQUIPMENT SHALL OCCUR WITHIN THE DRIP LINE LIMITS.
- 7. ELECTRICAL, TELEPHONE, CABLE TV, WATER, FIBER OPTIC CABLE AND/OR GAS LINES NEEDING TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE AFFECTED UTILITY COMPANY. ADEQUATE TIME SHALL BE PROVIDED FOR RELOCATION AND CLOSE COORDINATION WITH THE UTILITY COMPANY IS NECESSARY TO PROVIDE A SMOOTH TRANSITION IN UTILITY SERVICE. PAY CLOSE ATTENTION TO EXISTING UTILITIES WITHIN THE CONSTRUCTION LIMITS. GIVE NOTICE TO ALL UTILITY COMPANIES REGARDING DESTRUCTION AND REMOVAL OF ALL SERVICE LINES AND CAP ALL LINES BEFORE PROCEEDING WITH THE WORK.
- PERFORM CLEARING, GRUBBING, TREE AND STUMP REMOVAL, TOPSOIL REMOVAL AND STOCKPILING IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 9. BEFORE REMOVING OR ABANDONING ANY UTILITY PIPES, VERIFY NEW UTILITY PIPE HAS BEEN INSTALLED, TESTED AND IS OPERATIONAL.
- 10. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THIS DRAWING HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. VERIFY CRITICAL INVERT INFORMATION PRIOR TO BEGINNING CONSTRUCTION.
- 11. DAMAGE CAUSED TO SURROUNDING AREA PAVEMENT OUTSIDE THE CONSTRUCTION LIMITS SHALL BE SAWCUT AND REPLACED AT NO ADDITIONAL COST TO THE OWNER.
- 12. COORDINATE SEQUENCING AND PHASING OF DEMOLITION WITH ENGINEER.
- 13. SEE OTHER DRAWINGS FOR ADDITIONAL SITE DEMOLITION WORK.
- 14. SAWCUT CURB AND GUTTER AND SIDEWALKS TO NEAREST JOINT
- 15. CONTRACTOR MAY TEMPORARILY REMOVE, SALVAGE, AND REINSTALL ANY LIGHT POLES AT THEIR OWN EXPENSE, AND AS APPROVED BY THE ENGINEER.

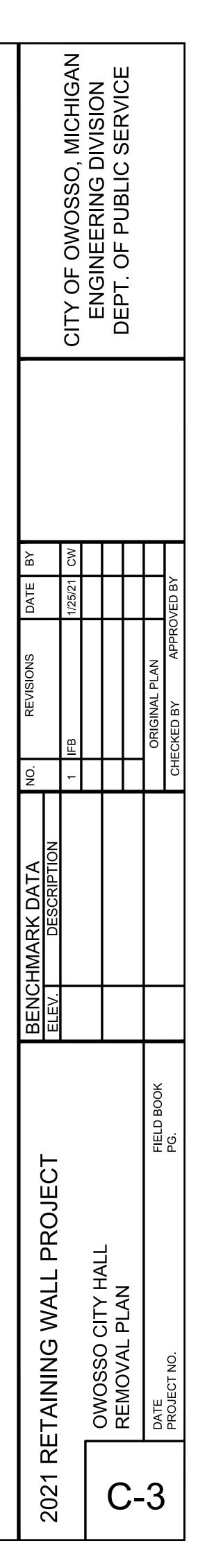
#### MAINTAINING TRAFFIC NOTES

1. SIGNS SHALL BE PLACED IN ACCORDANCE WITH MDOT MAINTAINING TRAFFIC TYPICALS INCLUDED IN THE SPECIFICATIONS. 2. ADJUST SIGN SPACING AS NECESSARY TO MEET MDOT REQUIREMENTS.

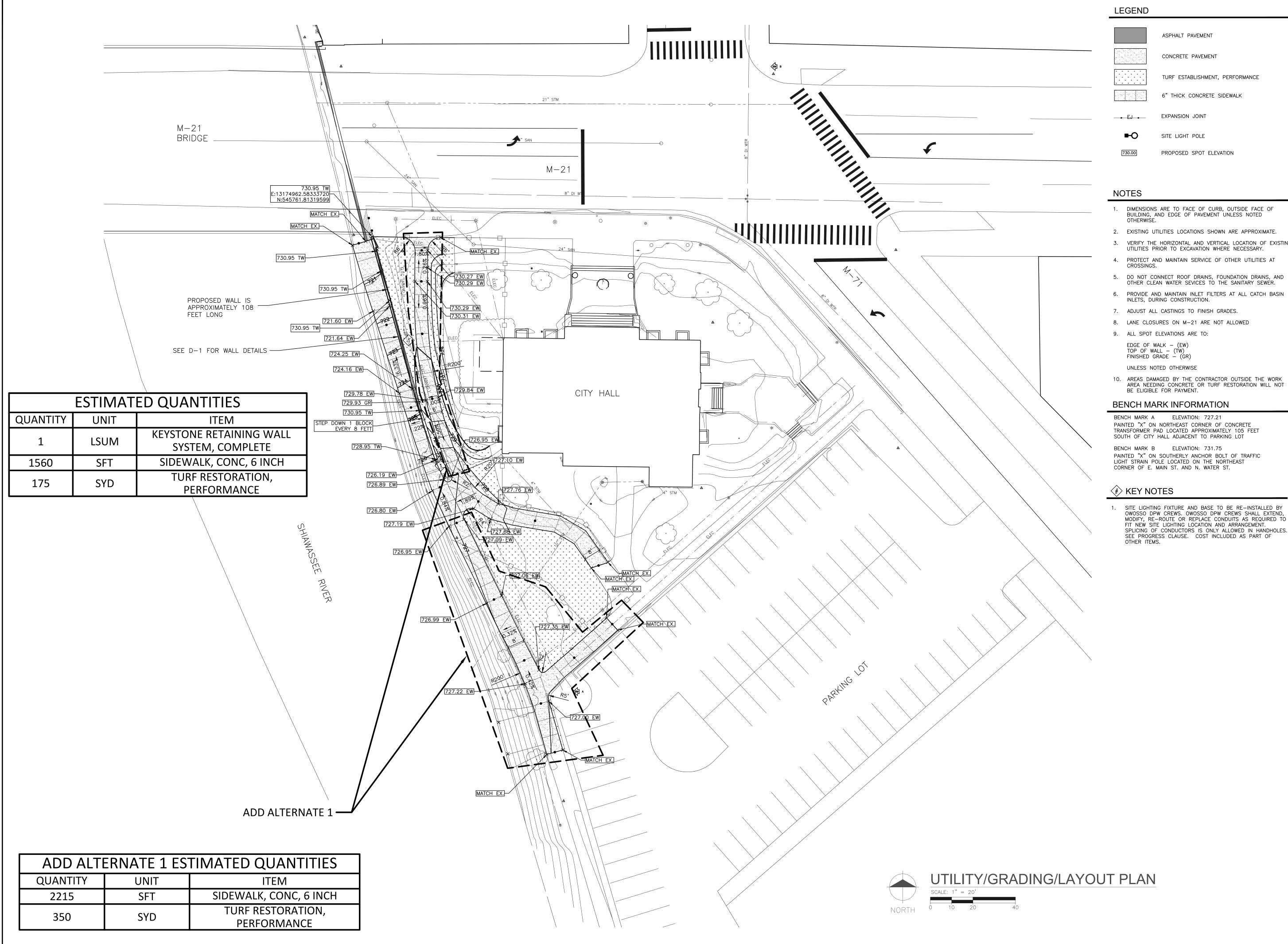
3. LANE CLOSURES ON M-21 ARE NOT ALLOWED. CONTRACTOR SHALL ACCESS THE SITE WITH EQUIPMENT AND MATERIALS FROM OTHER LOCATIONS OR OUT OF THE TRAVEL LANES OF M-21.

#### KEY NOTES

- 1. SAWCUT AND REMOVE 4" CONCRETE SIDEWALK TO NEAREST
- 2. REMOVE CONCRETE CURB.
- 3. REMOVE RETAINING WALL AND ALL APPURTENANCES.
- 4. PROTECT LIGHT POLE AND FIXTURE.
- 5. REMOVE CONCRETE PAD AND STEPS.
- 6. PROTECT TREE. TIE BACK OR TRIM BRANCHES AS REQUIRED FOR CONSTRUCTION. COORDINATE TRIMMING WITH OWNER.
- 7. PROTECT SIGN.
- 8. REMOVE 4" CONCRETE SIDEWALK.



PLAN	
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ASPHALT PAVEMENT
CONCRETE PAVEMENT
TURF ESTABLISHMENT, PERFORMANCE
6" THICK CONCRETE SIDEWALK
EXPANSION JOINT
SITE LIGHT POLE

- 1. DIMENSIONS ARE TO FACE OF CURB, OUTSIDE FACE OF BUILDING, AND EDGE OF PAVEMENT UNLESS NOTED OTHERWISE.
- 2. EXISTING UTILITIES LOCATIONS SHOWN ARE APPROXIMATE.

PROPOSED SPOT ELEVATION

- 3. VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF EXISTING UTILITIES PRIOR TO EXCAVATION WHERE NECESSARY. 4. PROTECT AND MAINTAIN SERVICE OF OTHER UTILITIES AT
- OTHER CLEAN WATER SEVICES TO THE SANITARY SEWER.
- 6. PROVIDE AND MAINTAIN INLET FILTERS AT ALL CATCH BASIN INLETS, DURING CONSTRUCTION.
- 7. ADJUST ALL CASTINGS TO FINISH GRADES.
- 8. LANE CLOSURES ON M-21 ARE NOT ALLOWED
- 9. ALL SPOT ELEVATIONS ARE TO: EDGE OF WALK - (EW)
- TOP OF WALL (TW) FINISHED GRADE – (GR)
- UNLESS NOTED OTHERWISE
- 10. AREAS DAMAGED BY THE CONTRACTOR OUTSIDE THE WORK AREA NEEDING CONCRETE OR TURF RESTORATION WILL NOT BE ELIGIBLE FOR PAYMENT.

#### BENCH MARK INFORMATION

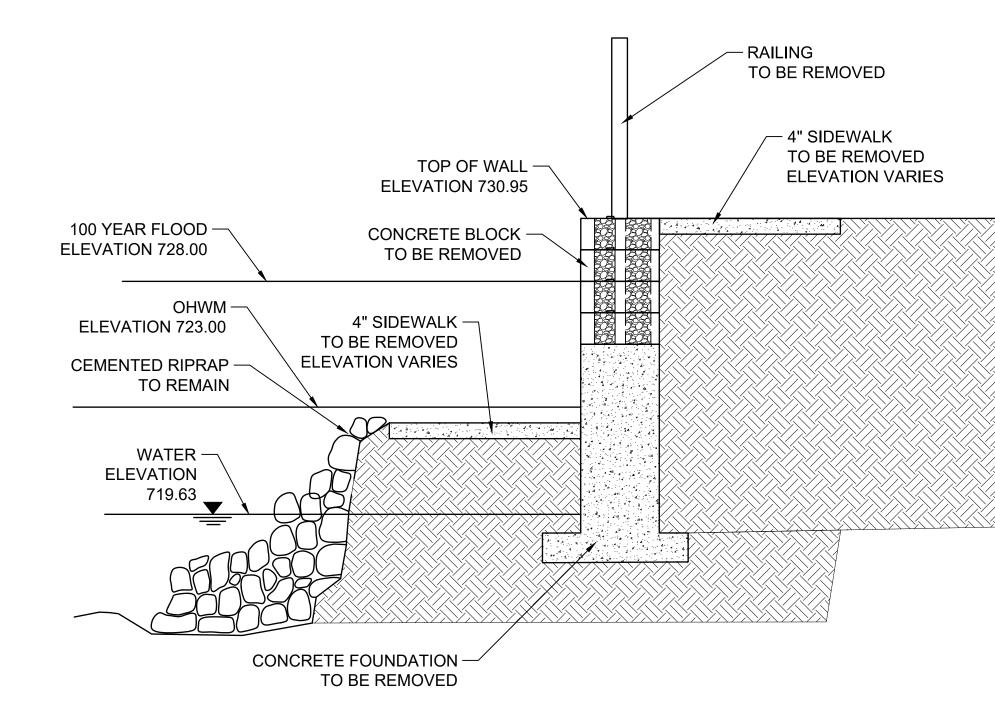
BENCH MARK A ELEVATION: 727.21 PAINTED "X" ON NORTHEAST CORNER OF CONCRETE TRANSFORMER PAD LOCATED APPROXIMATELY 105 FEET SOUTH OF CITY HALL ADJACENT TO PARKING LOT

BENCH MARK B ELEVATION: 731.75 PAINTED "X" ON SOUTHERLY ANCHOR BOLT OF TRAFFIC LIGHT STRAIN POLE LOCATED ON THE NORTHEAST CORNER OF E. MAIN ST. AND N. WATER ST.

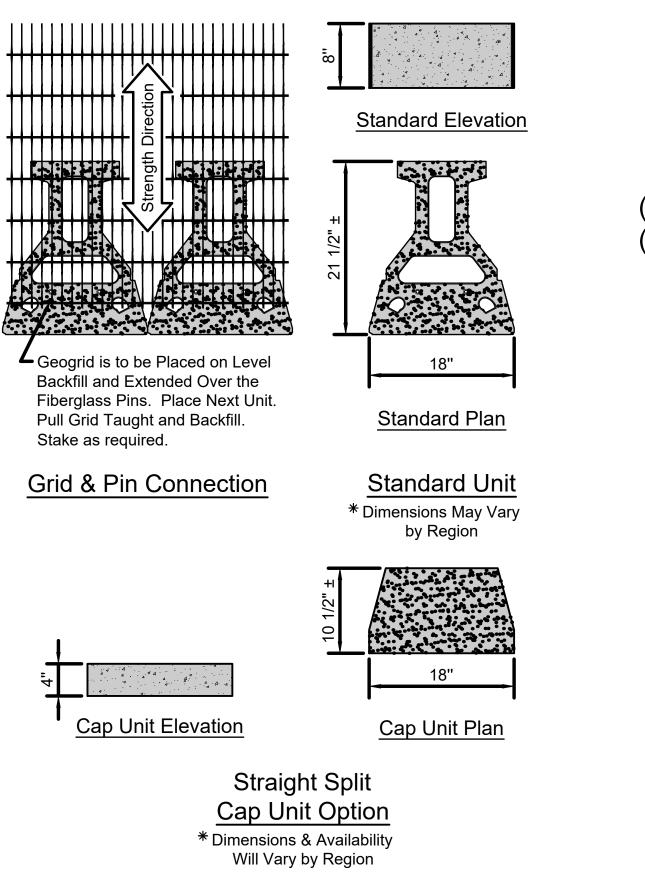
#### **KEY NOTES**

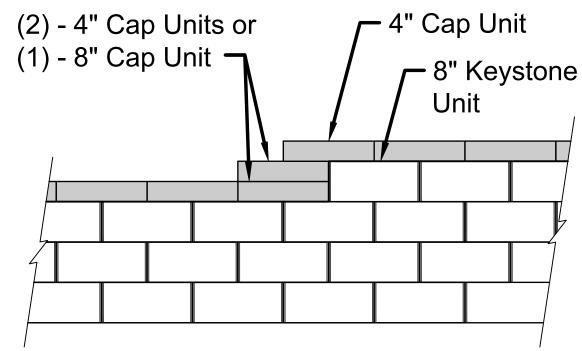
SITE LIGHTING FIXTURE AND BASE TO BE RE-INSTALLED BY OWOSSO DPW CREWS. OWOSSO DPW CREWS SHALL EXTEND, MODIFY, RE-ROUTE OR REPLACE CONDUITS AS REQUIRED TO FIT NEW SITE LIGHTING LOCATION AND ARRANGEMENT. SPLICING OF CONDUCTORS IS ONLY ALLOWED IN HANDHOLES. SEE PROGRESS CLAUSE. COST INCLUDED AS PART OF OTHER ITEMS.

		BENC	BENCHMARK DATA	NO.	REVISIONS	DATE	ВҮ	
		ELEV	DESCRIPTION					
				1 IFB		1/25/21	CW	CITY OF OWOSSO, MICHIGAN
								ENGINFERING DIVISION
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4	DATE FIELD BOOK			ORI	ORIGINAL PLAN			
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TYPICAL EXISTING CROSS SECTION NO SCALE

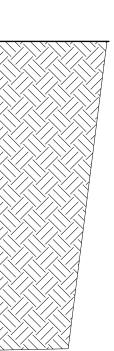


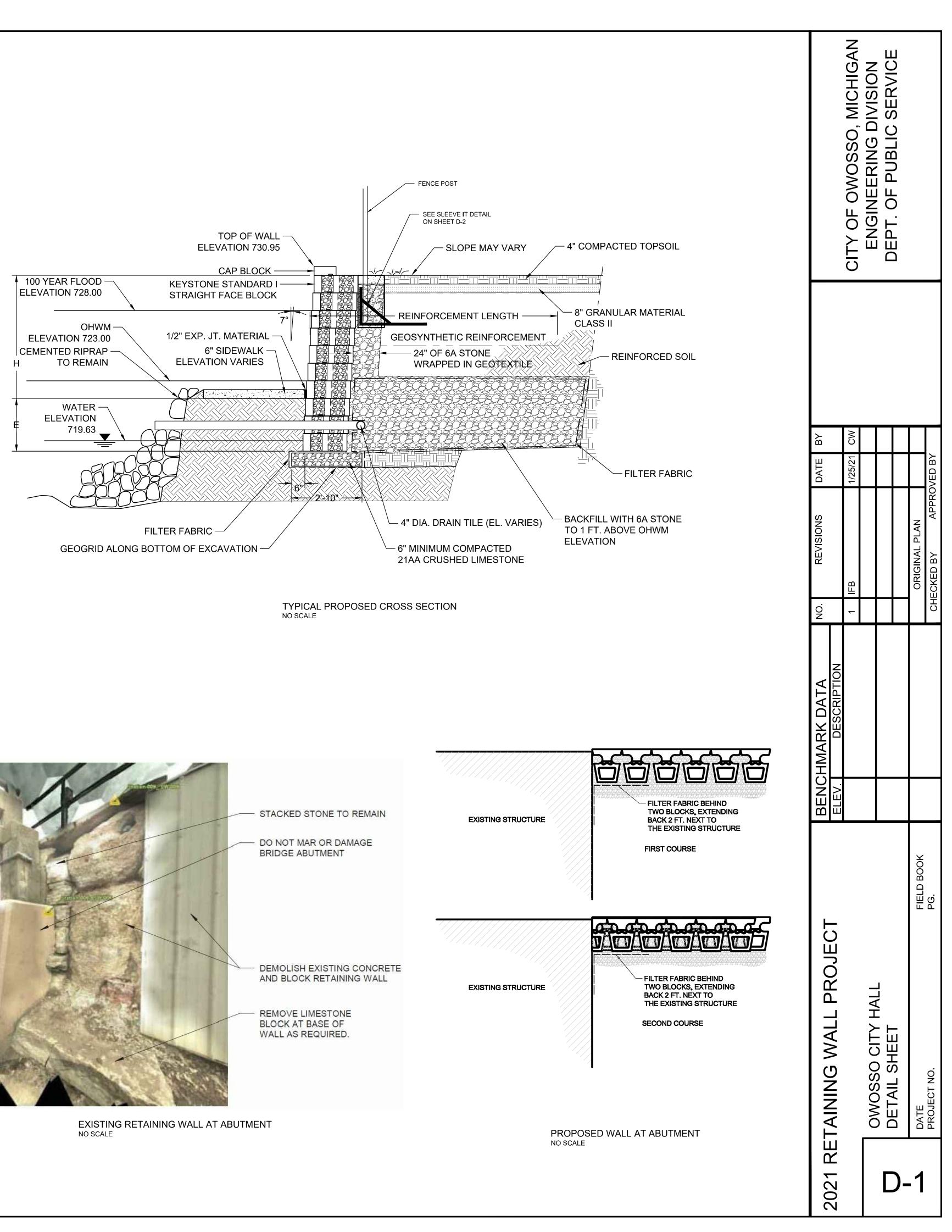


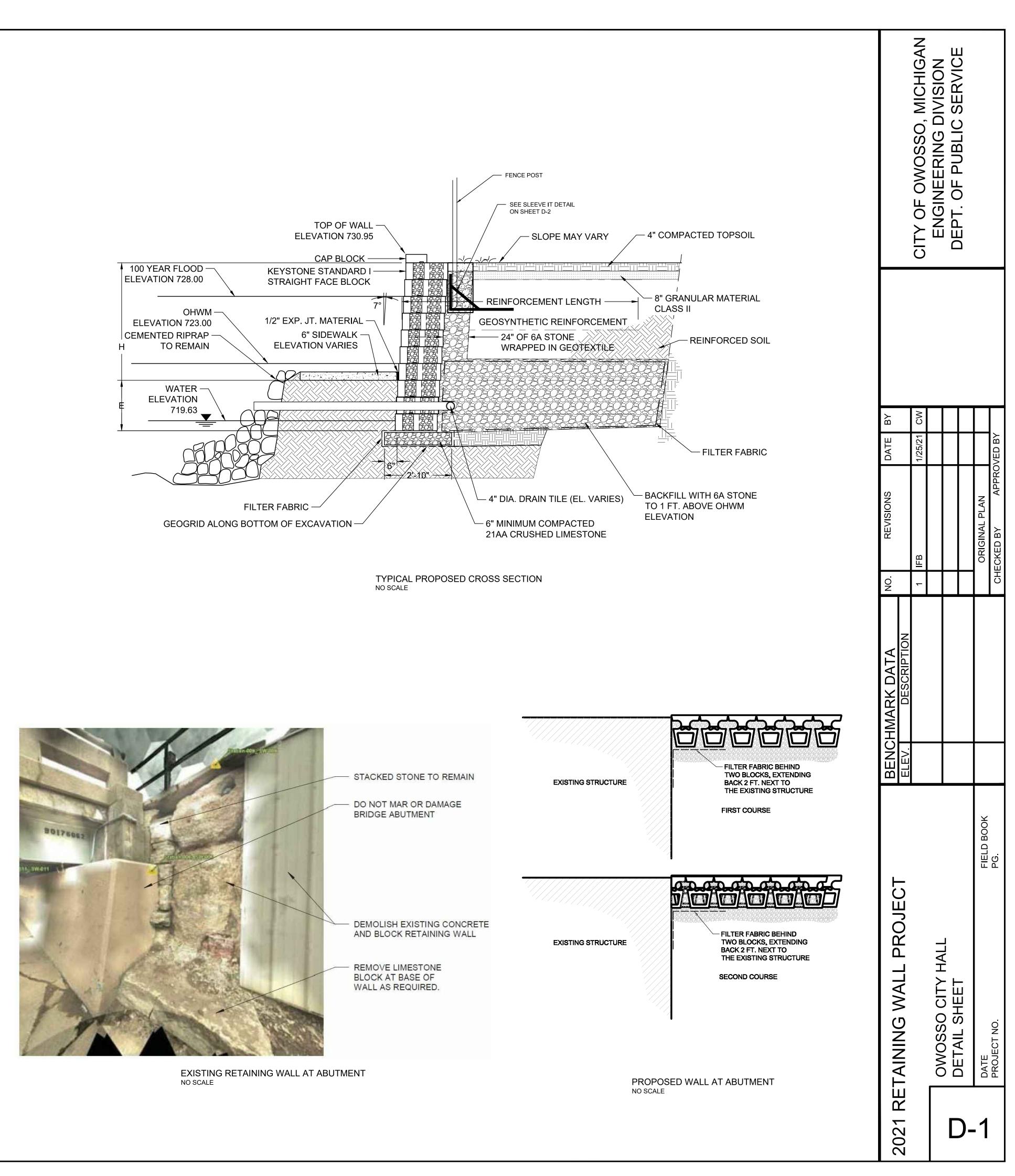
### Note:

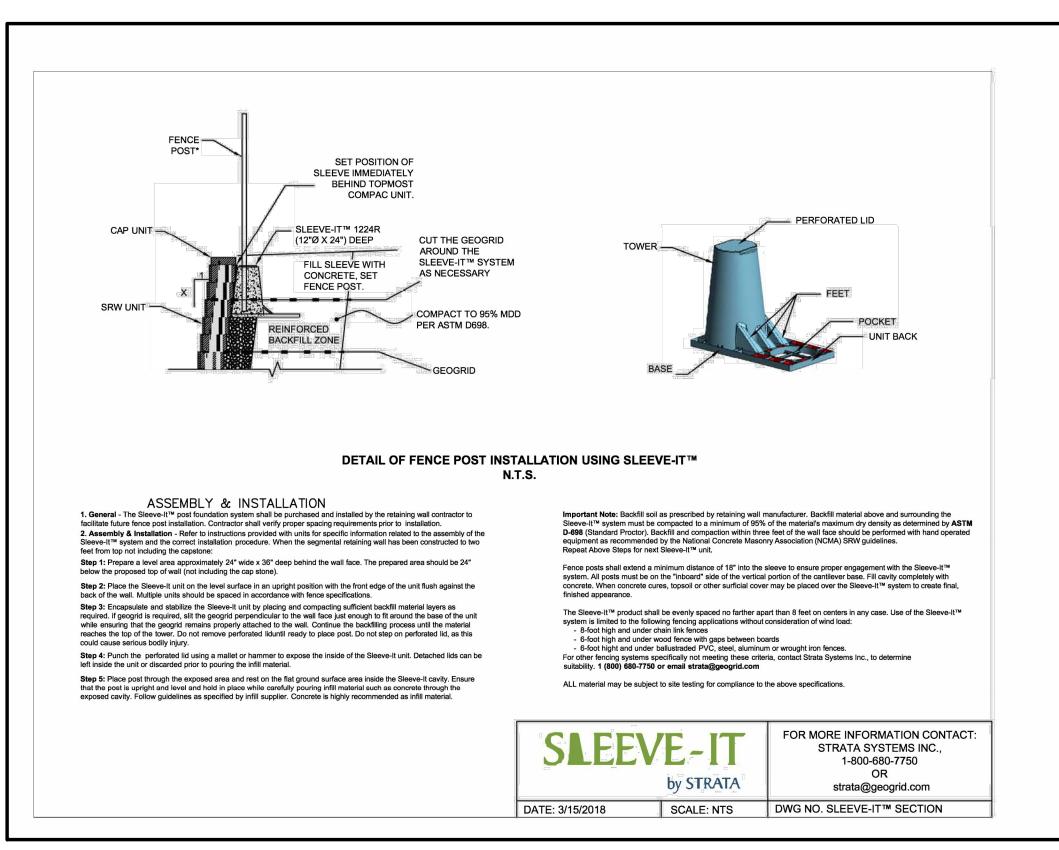
1. Secure all cap units with Keystone Kapseal or equal.

# Top of Wall Steps

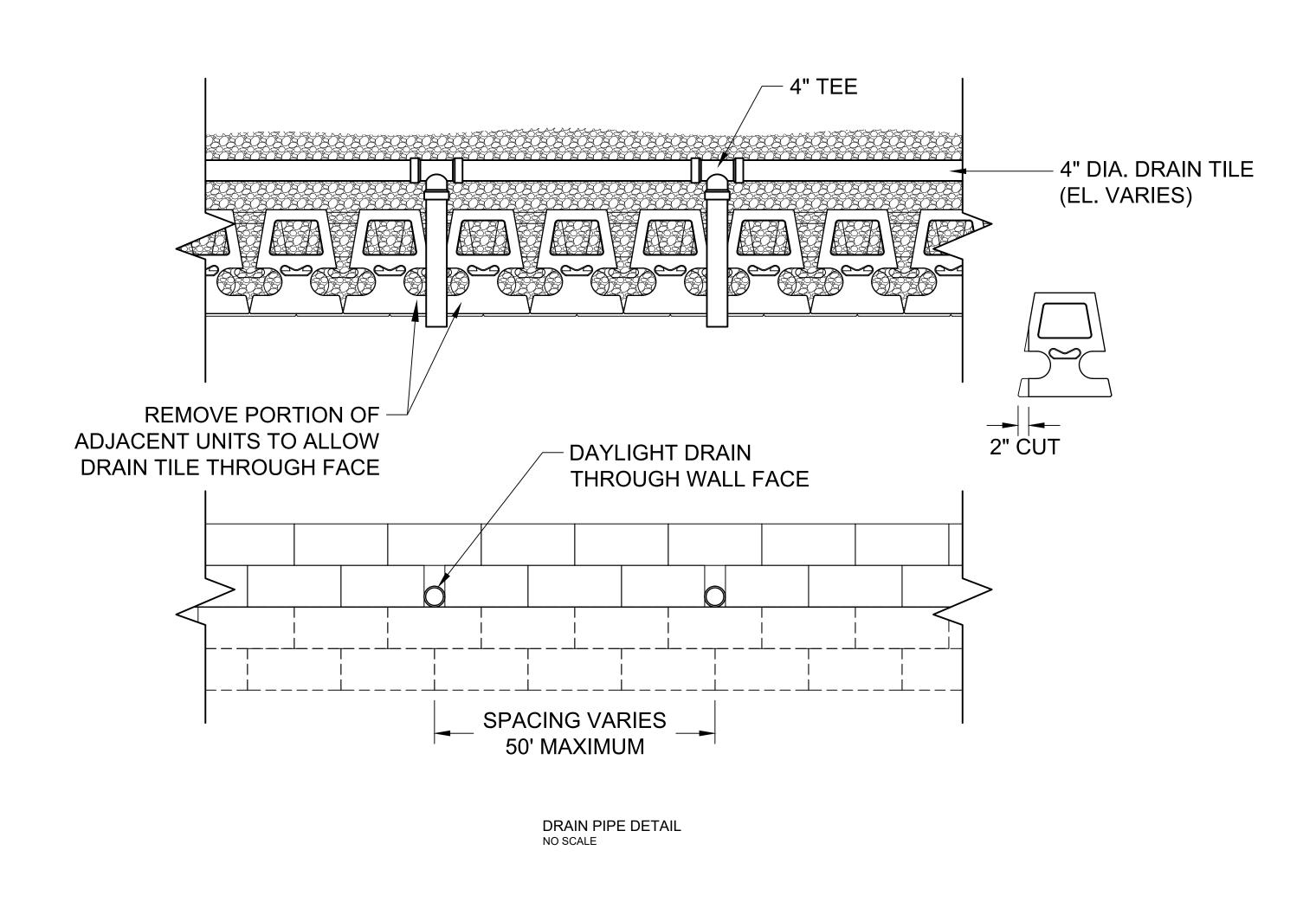


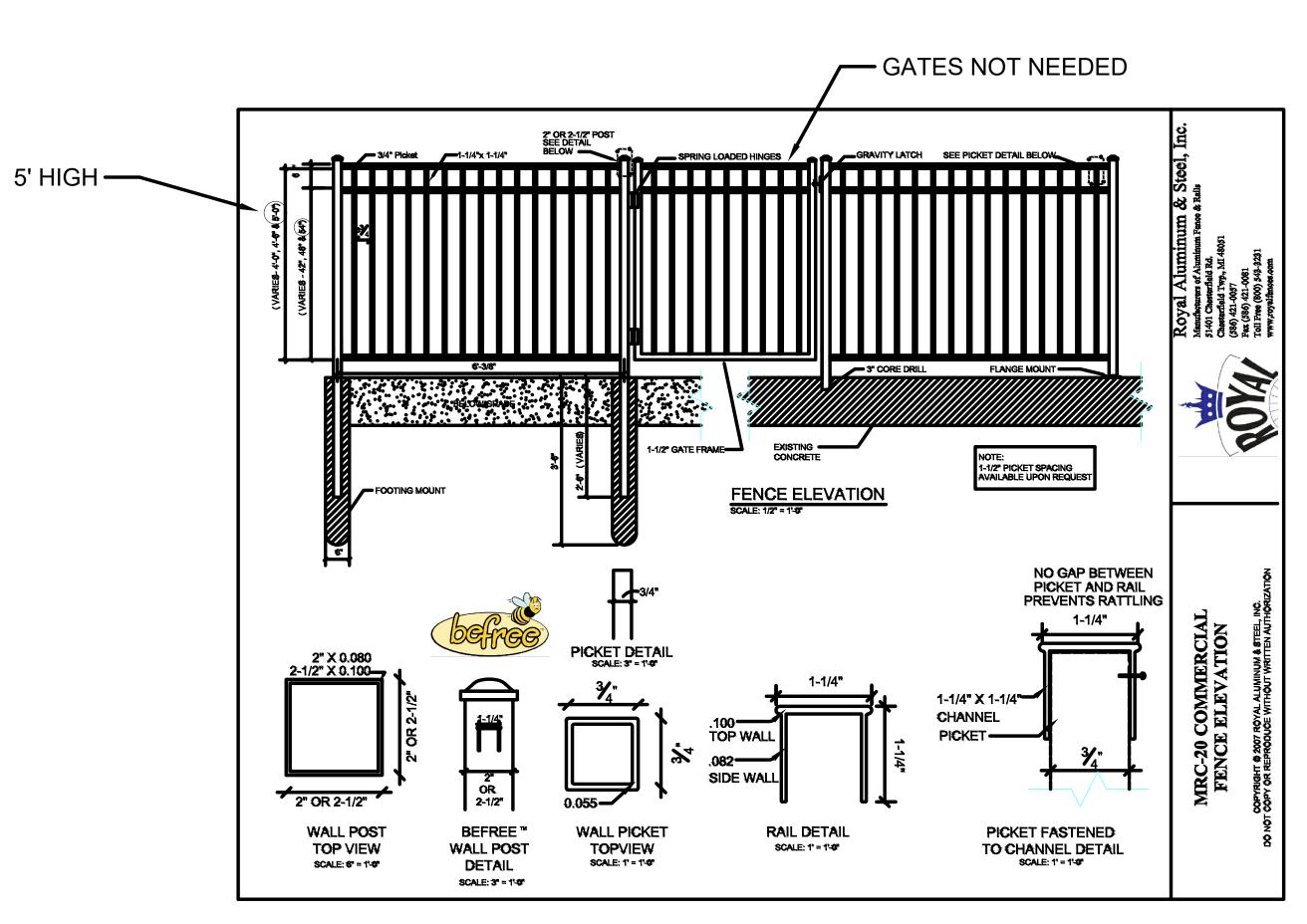






**RAILING POST INSTALLATION** NO SCALE

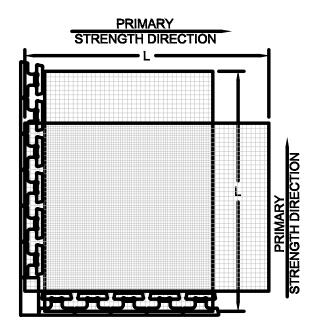




RAILING ON RETAINING WALL NO SCALE

NOTE: USE ADHESIVE ON EXPOSED PARTIAL UNITS. CUT UNITS (X) TO MAINTAIN RUNNING BOND. FIRST COURSE SECOND COURSE न्द्रन्द्रन्द् ᢪ᠊ᠹ᠊ᠼᢖᠽ᠊ THIRD COURSE FOURTH COURSE न्द्रन्दन्द 

NO SCALE



NOTE: IN THE "CROSSOVER AREA" OF REINFORCEMENT, ONE OF THE LAYERS OF REINFORCEMENT SHOULD BE LOWERED OR RAISED ONE COURSE TO ALLOW PLACEMENT OF THE REINFORCEMENT WITH THE PRIMARY REINFORCEMENT STRENGTH DIRECTION PROPERLY ORIENTED. THE REINFORCEMENT SHOULD NOT EXTEND INTO THE SEGMENTAL RETAINING WALL UNITS ON THE RETURN LEG OF THE 90-DEGREE CORNER.

END TREATMENT DETAIL

CITY OF OWOSSO, MICHIGAN ENGINEERING DIVISION DEPT. OF PUBLIC SERVICE							
REVISIONS DATE BY		1/25/21 CW				ORIGINAL PLAN	D BY APPROVED BY
TA NO.	IPTION	1 IFB				ORI	CHECKED BY
<b>BENCHMARK DATA</b>	ELEV. DESCR						
		HALL			FIELD BOOK PG.		
2021 RETAINING WALL PRO IECT						DATE	PROJECT NO.