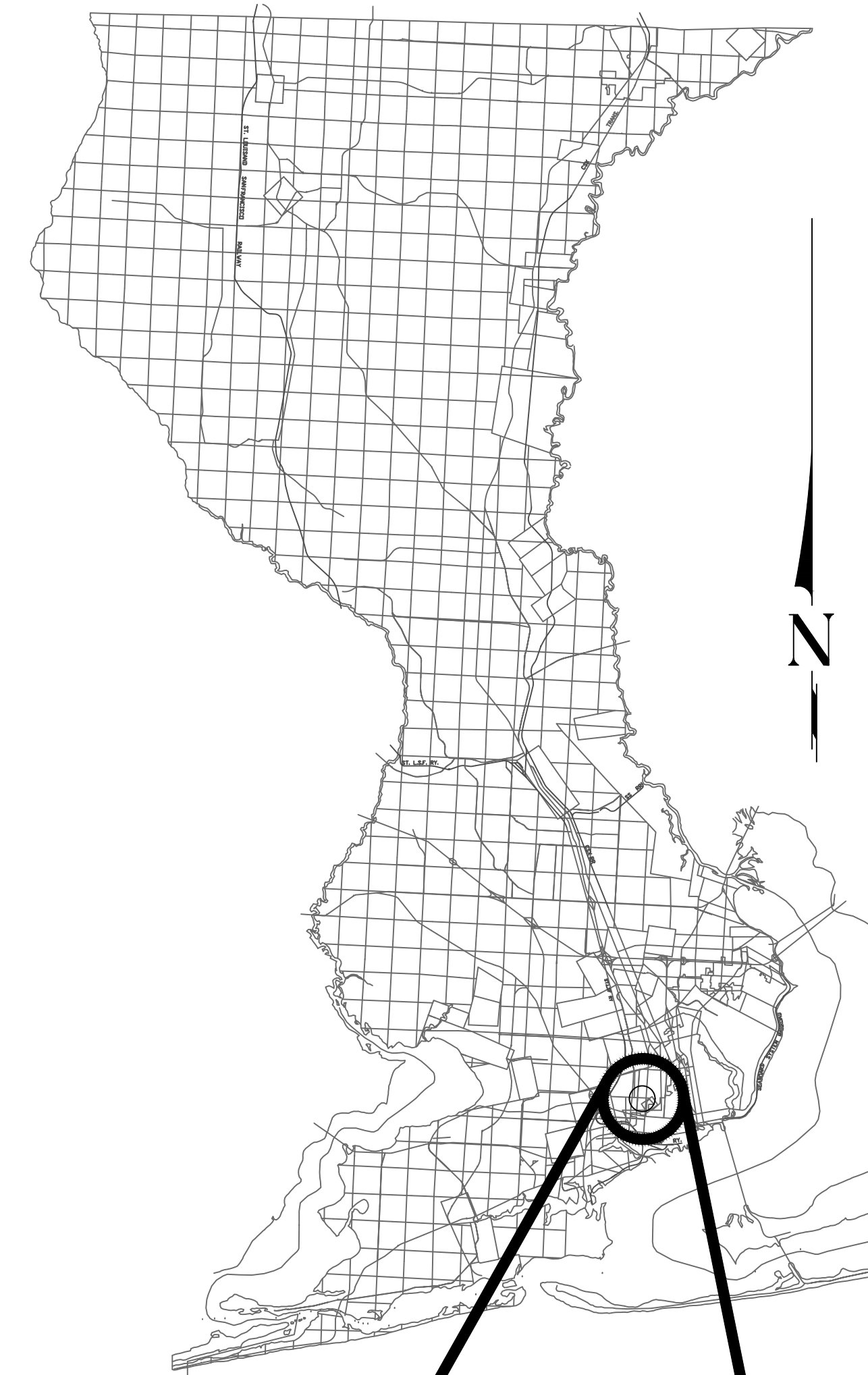


**BOARD OF COUNTY COMMISSIONERS
 ESCAMBIA COUNTY, FLORIDA
 PUBLIC WORKS DEPARTMENT
 ENGINEERING / INFRASTRUCTURE DIVISION**



3298 SUMMIT BOULEVARD, SUITE 32
 PENSACOLA, FLORIDA 32503
 PHONE: (850) 332-7912
 CERTIFICATE OF AUTHORIZATION #26889

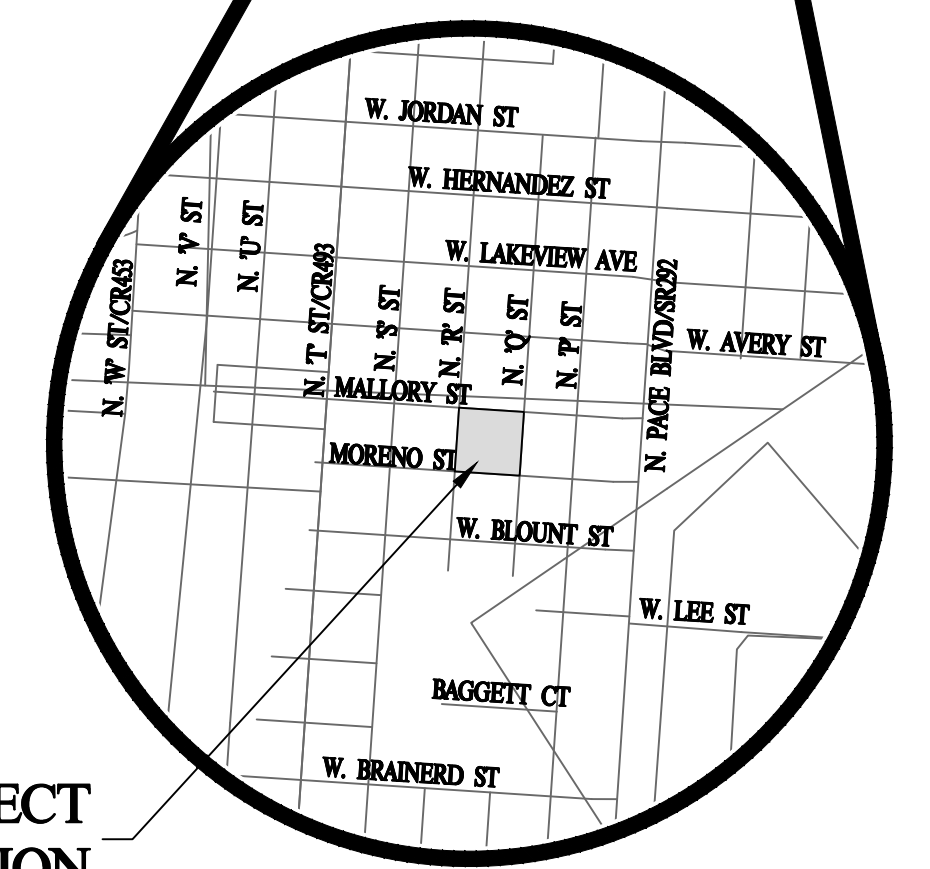
**PLANS PROPOSED FOR
 MORENO STREET
 STORMWATER POND AND SIDEWALK
 IMPROVEMENTS
 (PD 02-03.79 PO 211063)**



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**RELEASED FOR CONSTRUCTION SET
 JUNE 1, 2023**



PROJECT LOCATION

VICINITY MAP

COMMISSIONERS

- | | |
|----------------|-------------------------------|
| DISTRICT ONE | JEFF BERGOSH, CHAIRMAN |
| DISTRICT TWO | DOUG UNDERHILL, VICE CHAIRMAN |
| DISTRICT THREE | LUMON MAY |
| DISTRICT FOUR | ROBERT BENDER |
| DISTRICT FIVE | STEVEN BARRY |

THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH THE LATEST ESCAMBIA COUNTY TECHNICAL SPECIFICATIONS.

ANY REFERENCE TO FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, DIVISION 1, GENERAL REQUIREMENTS AND COVENANTS, SHALL BE EXCLUDED AND NOT APPLICABLE TO ANY SPECIFICATION REFERED HEREIN OR OTHERWISE LISTED IN THESE PLANS OR RELATED DOCUMENTS OR THE ESCAMBIA COUNTY TECHNICAL SPECIFICATIONS.

PROJECT MANAGER: DMITRII TROKHIN	
SECTION / TOWNSHIP / RANGE: 17-2S-30W	DISTRICT: 3
PROJECT ENGINEER: DALE E. LONG, PE	REG FLA ENG NO: 55393
SIGNATURE:	DATE: SEPTEMBER 2022

PHASE	REVIEW	DATE	APPROVED BY	DATE	APPROVED BY	ORIGINATOR (RP)	DATE	ORIGINATOR (QR)	DATE	ORIGINATOR (RP)	DATE	ORIGINATOR (QR)	DATE	ORIGINATOR (RP)	DATE	ORIGINATOR (QR)	DATE
RELEASED FOR CONSTRUCTION		6/12/23				PRODUCTION CHECKING COMPLETE, READY FOR SUBMITTAL REVIEW (RP)		CORRECT (Green Highlighter) Change (Red Pen)		CHECKER (RP)		CHECKER (QR)		CHECKER (RP)		CHECKER (QR)	
						CHANGE INCORPORATION (Yellow Highlighter)		CORRECT (Green Highlighter) Change (Red Pen)									
						ORIGINATOR VERIFICATION (Correct (Pink Highlighter))		CORRECT (Blue Highlighter)									
						REMARK INCORPORATION (Blue Highlighter)		CORRECT (Blue Highlighter)									
						VERIFICATION, CHECKER (QR)		CORRECT (Blue Highlighter)									

PAVING GRADING AND DRAINAGE NOTES:

- ALL DRAINAGE STRUCTURES ARE TO BE TRAFFIC RATED UNLESS SPECIFICALLY NOTED OTHERWISE.
- ALL REINFORCED CONCRETE PIPE (RCP) SHALL BE A MINIMUM CLASS III, UNLESS OTHERWISE APPROVED OR NOTED ON THE PLANS OR SPECIFICATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR GRADING/PAVING ALL ROADWAYS TO DRAIN POSITIVELY IN THE DIRECTION SHOWN BY THE PROPOSED GRADES AND FLOW ARROWS ON THE PLANS. INTERSECTIONS SHALL BE TRANSITIONED TO PROVIDE A SMOOTH DRIVING SURFACE WHILE MAINTAINING POSITIVE DRAINAGE. IF AN AREA OF POOR DRAINAGE IS OBSERVED DURING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO PAVING SO THAT A SOLUTION OR RECOMMENDATION FOR CORRECTION CAN BE MADE.
- ALL STORMWATER PIPE JOINTS SHALL BE WRAPPED WITH FILTER FABRIC.
- ALL NEW CURBING AND SIDEWALK SHALL ABUT/TIE-IN TO EXISTING CURBING AND SIDEWALK WITH A CONSTRUCTION JOINT. EXISTING EDGES SHALL BE CUT IN STRAIGHT LINES TO PRESENT A WORKMANLIKE CONNECTION. ABUTTING EDGES SHALL BE CONSTRUCTED FLUSH TO ELIMINATE TRIPPING HAZARDS.
- THE CONTRACTOR SHALL GRADE ALL POND BOTTOMS TO DRAIN TOWARDS THE SAND FILTER, THE EQUALIZER PIPES, OR OUTFALL STRUCTURE AS APPROPRIATE.
- CONTRACTOR SHALL VERIFY THE SIZE, TYPE, END ELEVATIONS AND SLOPE OF ALL CULVERTS THAT ARE DAMAGED OR WILL BE REPLACED DURING THE COURSE OF CONSTRUCTION. CULVERTS AND MITERED END SECTIONS, OR HEADWALLS SHALL BE REPLACED WITH EQUIVALENT MATERIALS AND CONSTRUCTION AS REQUIRED BY ESCAMBIA COUNTY UNLESS OTHERWISE NOTED ON THE CONSTRUCTION PLANS. THE CONTRACTOR SHALL PROVIDE PRE AND POST CULVERT ELEVATIONS, MATERIAL AND SIZE ON THE AS-BUILTS TO ENSURE COMPLIANCE.

UTILITY NOTES:

- ALL UTILITY CONSTRUCTION SHALL CONFORM TO ECUA STANDARD GUIDELINES AND SPECIFICATIONS, LATEST EDITION, AND STANDARD DETAILS.
- THE EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD LOCATE ALL EXISTING UTILITIES AS TO SIZE, LOCATION, AND ELEVATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY AND ALL CONFLICTS PRIOR TO BEGINNING CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND VERIFYING SIZE, TYPE, LOCATION, AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND NOTIFYING THE INVOLVED UTILITY PROVIDERS TO MAKE ANY NECESSARY ARRANGEMENTS FOR RELOCATION, DISRUPTION OF SERVICE OR CLARIFICATION OF ACTIVITY REGARDING SAID UTILITY. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN CROSSING AN UNDERGROUND UTILITY, WHETHER SHOWN ON THESE PLANS OR FIELD LOCATED. THE RESPECTIVE UTILITY PROVIDERS SHALL RELOCATE UTILITIES THAT INTERFERE WITH THE PROPOSED CONSTRUCTION AND THE CONTRACTOR SHALL COOPERATE WITH THE UTILITY PROVIDERS DURING RELOCATION OPERATIONS. ANY DELAY OR INCONVENIENCE CAUSED BY THE INVOLVED UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT.
- THE CONTRACTOR SHALL ADHERE TO FLORIDA STATUTE CHAPTER 556 AND THE SUNSHINE 811 OF FLORIDA. CONTRACTOR SHALL NOTIFY ALL UTILITY OWNERS AND THE SUNSHINE UNDERGROUND NOTIFICATION CENTER AT 811 AT LEAST 48 HOURS PRIOR TO START OF WORK. CONTRACTOR IS RESPONSIBLE FOR CONTINUAL MAINTENANCE OF ALL UTILITY LOCATES, FLAGS, MARKINGS, ET CETERA THROUGH THE ENTIRE DURATION OF CONSTRUCTION.
- ALL VALVE BOXES SHALL BE SET FLUSH IN A CONCRETE COLLAR TO FINISH GRADE. ALL CONCRETE VALVE COLLARS SHALL BE CIRCULAR PRECAST MEMBER WITH A MINIMUM ANNULAR COVERAGE OF 6-INCHES.
- THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL CODES, RULES AND REGULATIONS REGARDING UTILITY LOCATIONS. THE CONTRACTOR IS COMPLETELY AND SOLELY RESPONSIBLE FOR ALL DAMAGES TO ANY UTILITIES CAUSED AS A RESULT OF, OR BY, THE CONSTRUCTION. THE LOCATION OF EXISTING UTILITIES ON THESE PLANS IS SHOWN IN AN APPROXIMATE WAY ONLY AND WAS TAKEN FROM LIMITED FIELD LOCATES AND THE BEST INFORMATION AVAILABLE. THE CONTRACTOR SHALL CONTACT GULF POWER AND/OR AT&T TO SUPPORT OR RELOCATE EXISTING POLES DURING CONSTRUCTION IF NECESSARY. THE CONTRACTOR SHALL PAY THE RESPECTIVE COMPANY FOR THIS WORK. THE CONTRACTOR SHALL COORDINATE ALL OTHER UTILITY WORK OR CONNECTIONS WITH THE APPROPRIATE UTILITY COMPANIES. UNDERGROUND UTILITIES MAY EXIST THAT ARE NOT SHOWN.
- ALL NEW UTILITY MAINS (POTABLE WATER, RECLAIMED WATER, OR SANITARY FORCEMAINS) SHALL HAVE A MINIMUM COVER OF 30-INCHES AND A MAXIMUM COVER OF 36-INCHES, UNLESS OTHERWISE NOTED.
- AT TIMES WHEN PIPE INSTALLATION IS NOT IN PROGRESS, THE OPEN ENDS OF THE PIPE SHALL BE CLOSED BY AN APPROVED MEANS AND SHALL REMAIN CLOSED UNTIL CONSTRUCTION OF THAT PARTICULAR SECTION IS RESUMED. NO OPEN TRENCHES WILL BE ALLOWED WHEN PIPE INSTALLATION IS NOT IN PROGRESS. THE TERMINAL JOINT MAY BE LEFT EXPOSED IN AN OPEN TRENCH, PROVIDED ADEQUATE SAFETY BARRICADES ARE INSTALLED BY THE CONTRACTOR.
- CONNECTIONS TO EXISTING WATER AND SEWER FACILITIES SHALL BE COORDINATED WITH EMERALD COAST UTILITIES AUTHORITY (ECUA) AT (850)476-0480 PRIOR TO MAKING CONNECTIONS. A REPRESENTATIVE OF ECUA SHALL WITNESS ALL CONNECTIONS AND OPERATE ALL VALVES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ALL NECESSARY ARRANGEMENTS WITH GOVERNMENTAL DEPARTMENTS, PUBLIC UTILITIES, PUBLIC CARRIERS, SERVICE COMPANIES, AND CORPORATIONS OWNING OR CONTROLLING ROADWAYS, RAILWAYS, WATER, SEWER, GAS, ELECTRICAL, TELEPHONE, AND TELEGRAPH FACILITIES, SUCH AS PAVEMENTS, TRACKS, PIPING, WIRES, CABLES, CONDUITS, POLES, GUYS, OR OTHER SIMILAR FACILITIES, INCLUDING INCIDENTAL STRUCTURES CONNECTED THEREWITH THAT ARE ENCOUNTERED IN THE WORK IN ORDER THAT SUCH ITEMS MAY BE PROPERLY SUPPORTED, PROTECTED OR LOCATED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF PRIVATELY (HOMEOWNER/HOA) OWNED UNDERGROUND UTILITIES SUCH AS SPRINKLER SYSTEMS, SEPTIC DRAIN LINES, UNDERDRAINS, ETC. THAT ARE DAMAGED OR DESTROYED DURING CONSTRUCTION.
- IN LOCATIONS WHERE CONSTRUCTION IS SHOWN CROSSING EXISTING UTILITIES, THE CONTRACTOR SHALL POTHOLE THE EXISTING UTILITIES TO CONFIRM LOCATION, SIZE AND DEPTH IN ADVANCE OF CONSTRUCTION. CONTRACTOR SHALL USE THE POTHOLE INFORMATION TO PROVIDE THE REQUIRED CLEARANCE BETWEEN THE PROPOSED UTILITY LINE ABOVE OR BELOW THE EXISTING UTILITIES.
- CONTRACTOR SHALL COORDINATE SERVICE OUTAGES RELATED TO UTILITY TIE-INS WITH E.C.U.A. STAFF. CONTRACTOR IS ADVISED THAT TIE-INS MAY NEED TO BE MADE OVERNIGHT DURING OFF-PEAK HOURS.
- MANHOLE TOP ELEVATIONS SHOWN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE TOP ELEVATIONS ARE SET FLUSH WITH THE FINAL GRADE, UNLESS SPECIFICALLY NOTED OTHERWISE ON THE CONSTRUCTION PLANS.
- THE ECUA ENGINEERING MANUAL, DATED DECEMBER 18, 2014, ALONG WITH UPDATE # 1 DATED SEPTEMBER 1, 2016 (HEREINAFTER "MANUAL"), LOCATED AT WWW.ECUA.FL.GOV, IS HEREBY INCORPORATED BY REFERENCE INTO THIS PROJECT'S OFFICIAL CONTRACT DOCUMENTS AS IF FULLY SET FORTH THEREIN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE KNOWLEDGEABLE OF THE MANUAL'S CONTENTS AND TO CONSTRUCT THE PROJECT IN ACCORDANCE WITH THE MANUAL. THE CONTRACTOR SHALL PROVIDE ITS EMPLOYEES ACCESS TO THE MANUAL AT ALL TIMES, VIA PROJECT SITE OR OFFICE, VIA DIGITAL OR PAPER FORMAT. IN THE EVENT OF A CONFLICT BETWEEN THE MANUAL AND PLANS, CONTRACTOR SHALL CONSULT ENGINEER OF RECORD FOR PROPER RESOLUTION.

- UTILITY OWNERS SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION SO THAT THE UTILITY OWNER CAN SPOT VERIFY AND/OR EXPOSE THEIR UTILITIES. KNOWN UTILITIES OWNERS INCLUDE:

SEWER/WATER - EMERALD COAST UTILITY AUTHORITY MR. JACOB KEARLEY PH: (850) 969-5823	TELEPHONE - AT&T FLORIDA MR. TOM MANNING PH: (850) 623-3521
NATURAL GAS - ENERGY SERVICES OF PENSACOLA MS. DIANE MOORE PH: (850) 474-5319	CABLE - COX CABLE MR. TROY YOUNG PH: (850) 857-4510
ELECTRIC - FLORIDA POWER & LIGHT MR. DEREK GILMORE PH: (850) 777-9476	FIBER OPTIC - CENTURY LINK MS. AMBER GILSON PH: (850) 815-3131
TRAFFIC DEPARTMENT - ESCAMBIA COUNTY PUBLIC WORKS MS. JOHNNY PETTIGREW 3363 WEST PARK PLACE PENSACOLA, FL. 32505 PH: (850) 595-3404	FIBER OPTIC - QUANTA MR. RUSSELL RIBBLETT PH: (678) 836-5610
- AT&T FLORIDA WILL COMPLETE ALL WORK DURING THE HOURS OF 7:30 AM -4:30 PM, MONDAY THRU FRIDAY. NO NIGHT OR WEEKEND WORK.
- ALL CABLE DAMAGE MUST BE REPORTED TO THE ATT FLORIDA REPAIR SERVICE DEPARTMENT AT 611 FROM A LAND LINE OR 877-737-2478 IF USING A CELL PHONE.
- CONTRACTOR SHALL USE CAUTION WHEN WORKING IN OR AROUND AREAS OF OVERHEAD TRANSMISSION LINES AND UNDERGROUND UTILITIES.
- UTILITIES TO REMAIN AND BE PROTECTED DURING CONSTRUCTION. NECESSARY REPAIRS SHALL BE CONSIDERED INCIDENTAL TO OTHER PAY ITEMS AND SHALL BE TO THE SATISFACTION OF UTILITY OWNERS.
- ALL WATER SYSTEM COMPONENTS THAT COME INTO CONTACT WITH DRINKING WATER SHALL CONFORM TO NSF-61.

RECORD DRAWING NOTES:

- PRIOR TO CONSTRUCTION, THE CONTRACTOR WILL OBTAIN A COPY OF THE MINIMUM REQUIREMENTS FOR AS-BUILT RECORD DRAWING ACCEPTANCE FOR THE AGENCY HAVING JURISDICTION (AHJ) SUCH AS A COUNTY OR CITY, AND/OR A UTILITY SERVICE PROVIDER. THE CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THESE REQUIREMENTS AND PRODUCE AS-BUILT RECORD DRAWINGS THAT SUBSTANTIALLY COMPLY WITH OR EXCEED THESE REQUIREMENTS.
- THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD REDLINE DRAWINGS DEPICTING THE AS-BUILT CONDITION AT LEAST TWO (2) WEEKS PRIOR TO REQUESTING A FINAL INSPECTION OF THE WORK TO BE CERTIFIED.
- THE CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS DURING CONSTRUCTION WHICH SHOW THE AS-BUILT CONDITIONS OF ALL WORK INCLUDING PIPING, FITTINGS, DRAINAGE STRUCTURES, POND TOPOGRAPHY, OUTLET STRUCTURE DIMENSIONS, GRADING, ELEVATIONS, ETC. RECORD DRAWINGS SHALL BE PROVIDED TO THE ENGINEER OF RECORD PRIOR TO REQUESTING A FINAL INSPECTION.
- THE CONTRACTOR SHALL KEEP A DAILY SET OF AS-BUILT DRAWINGS WHILE THE WORK IS BEING DONE IS VISIBLE AND EXPOSED ACCORDING TO THE CRITERIA CONTAINED HEREIN.
- THE OWNER RESERVES THE RIGHT TO REQUIRE THAT THE CONTRACTOR UNCOVER, RE-TEST, AND/OR PERFORM ANY ACTION NECESSARY TO ENSURE THAT THE IMPROVEMENTS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING SUFFICIENT AS-BUILT INFORMATION TO CONVEY THAT THE CONSTRUCTION HAS BEEN COMPLETED WITHIN ACCEPTABLE TOLERANCES. AS-BUILT INFORMATION SHALL INCLUDE BUT IS NOT LIMITED TO THE FOLLOWING:
 - SANITARY SEWER:**
 - TOP ELEVATION OF ALL MANHOLE FRAME AND COVERS.
 - INVERT OF EACH LINE ENTERING AND EXITING EACH MANHOLE STRUCTURE.
 - LENGTH OF EACH RUN OF MAIN BETWEEN MANHOLES (MEASURED FROM CENTER TO CENTER OF MANHOLE)
 - PIPE SLOPE (GRADE) BETWEEN MANHOLES.
 - LOCATE ALL SERVICE WYES FROM THE DOWNSTREAM MANHOLE. PROVIDE A LATERAL DEPTH AT THE LOT LINE AS WELL AS AN OFFSET DISTANCE FROM THE MAIN.
 - LOCATE WITH MEASUREMENTS (MINIMUM TWO-POINT TIES) FROM PERMANENT VISIBLE OBJECTS ALL FITTINGS, STUB-OUTS, ACCESSORIES, ETC. NOT VISIBLE FROM THE SURFACE.
 - STORM DRAINAGE:**
 - TOP ELEVATION OF EACH STRUCTURE FRAME AND COVER AS WELL AS THE TOP ELEVATION OF ALL HEADWALLS, CONTROL STRUCTURES, ETC.
 - INVERT OF EACH LINE ENTERING AND EXITING EACH STRUCTURE.
 - INVERTS OF ALL PIPE OUTFALLS.
 - PIPE SLOPE (GRADE) BETWEEN STRUCTURES.
 - LENGTH OF RUN OF MAIN BETWEEN STORMWATER STRUCTURES (MEASURED FROM CENTER TO CENTER OF STRUCTURE)
 - PROVIDE DIMENSIONS AND INVERTS FOR ALL UNDERDRAINS INCLUDING FITTINGS AND CLEANOUTS.
 - POND TOPOGRAPHY:
 - CROSS-SECTIONS
 - SAND CHIMNEY DIMENSIONS
 - OVERFLOW STRUCTURE INFORMATION
 - LOCATE WITH MEASUREMENTS (MINIMUM TWO-POINT TIES) FROM PERMANENT VISIBLE OBJECTS ALL FITTINGS, STUB-OUT, ACCESSORIES, ETC. NOT VISIBLE FROM THE SURFACE.
 - PRESSURE MAINS (WATER AND SEWER):**
 - ACTUAL LENGTH OF PIPE BETWEEN EACH BRANCH OR VALVE IN RUN.
 - LOCATE ALL FITTINGS WITH MEASUREMENTS (MINIMUM TWO-POINT TIES) FROM PERMANENT VISIBLE OBJECTS ALL FITTINGS, STUB-OUT, ACCESSORIES, ETC. NOT VISIBLE FROM THE SURFACE.

3) LIST THE DEPTH OF LINES AT ALL VALVES, FITTINGS, AND FIRE HYDRANTS.

4) DIMENSIONS WHICH CLEARLY DEMONSTRATE COMPLIANCE WITH MINIMUM SEPARATION DISTANCES OR REQUIRED PIPE UPGRADES (ENCASEMENT).

D. OTHER IMPROVEMENTS:

- LOCATE BUILDINGS, SIDEWALKS, PAVEMENT, CURB AND GUTTER, ETC. AS APPLICABLE.

EXISTING LEGEND:

	<p>S.S.M.H. - SANITARY SEWER MANHOLE</p> <p>INV. ELEV. - INVERT ELEVATION</p> <p>C.M.P. - CORRUGATED METAL PIPE</p> <p>O.R. BOOK - OFFICIAL RECORD BOOK</p> <p>TBM - TEMPORARY BENCHMARK</p> <p>NAVD88 - NORTH AMERICAN VERTICAL DATUM OF 1988</p> <p>X 84.7 - SPOT ELEVATION</p> <p>● - SET 1/2" CAPPED IRON ROD (ESCAMBIA COUNTY)</p> <p>- R/W LINE</p> <p>- PROPERTY LINE</p> <p>- CONTOUR LINE</p> <p>- OVERHEAD UTILITY LINE</p> <p>- WATER LINE (SIZE/MATERIAL)</p> <p>- SANITARY SEWER LINES (SIZE/MATERIAL)</p> <p>- GAS MAIN (SIZE/MATERIAL)</p> <p>- WOOD LINE</p> <p>- UNDERGROUND STORM WATER LINE</p> <p>(B.B.) - BASE BEARING</p> <p>P.O.B. - POINT OF BEGINNING</p> <p>C.L.F. - CHAIN LINK FENCE</p> <p>W.P.F. - WOOD PRIVACY FENCE</p> <p>R/W - RIGHT-OF-WAY</p>
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PROPOSED LEGEND:

	<p>- STORMWATER INLET</p> <p>- STORMWATER PIPE</p> <p>- STORMWATER MANHOLE</p> <p>- TREE PROTECTION</p> <p>- TREE REMOVAL</p>
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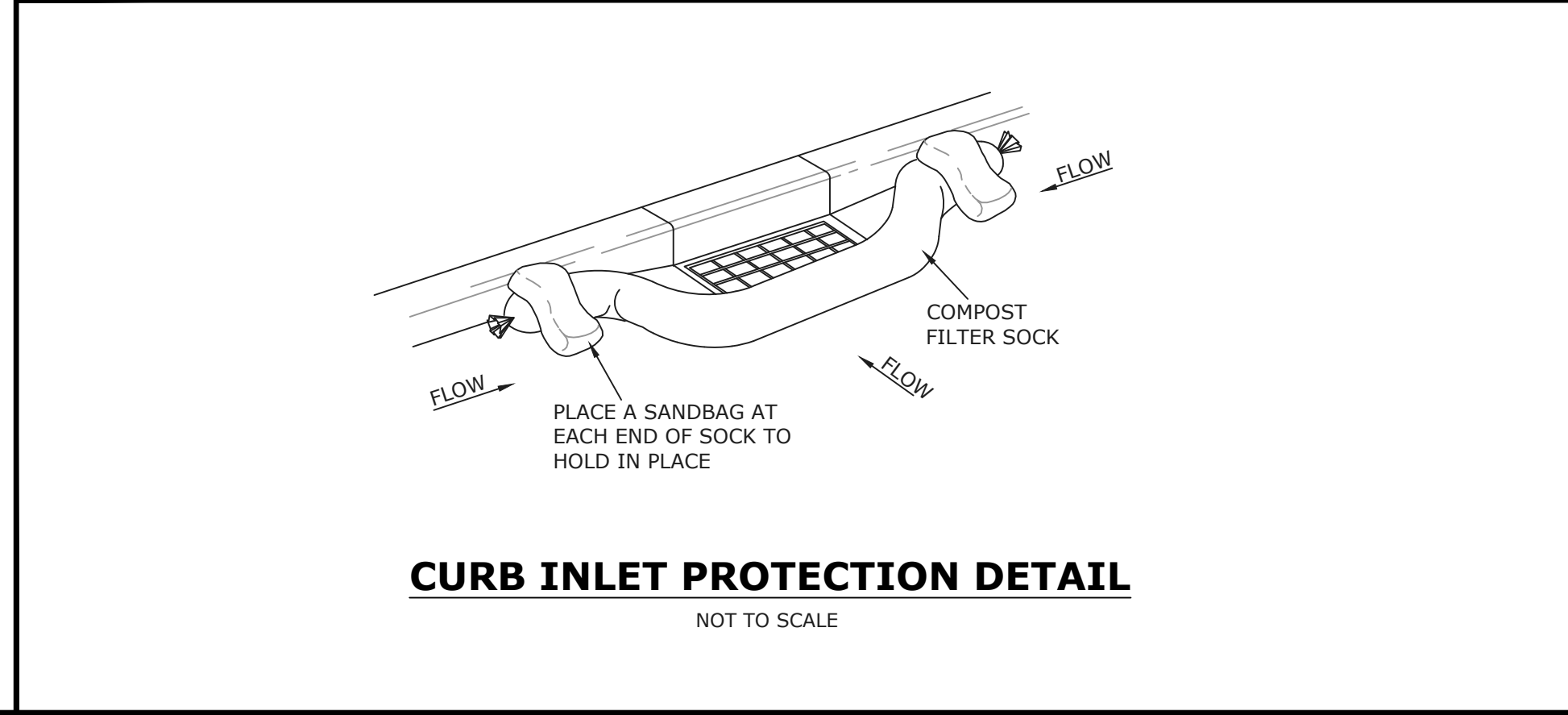
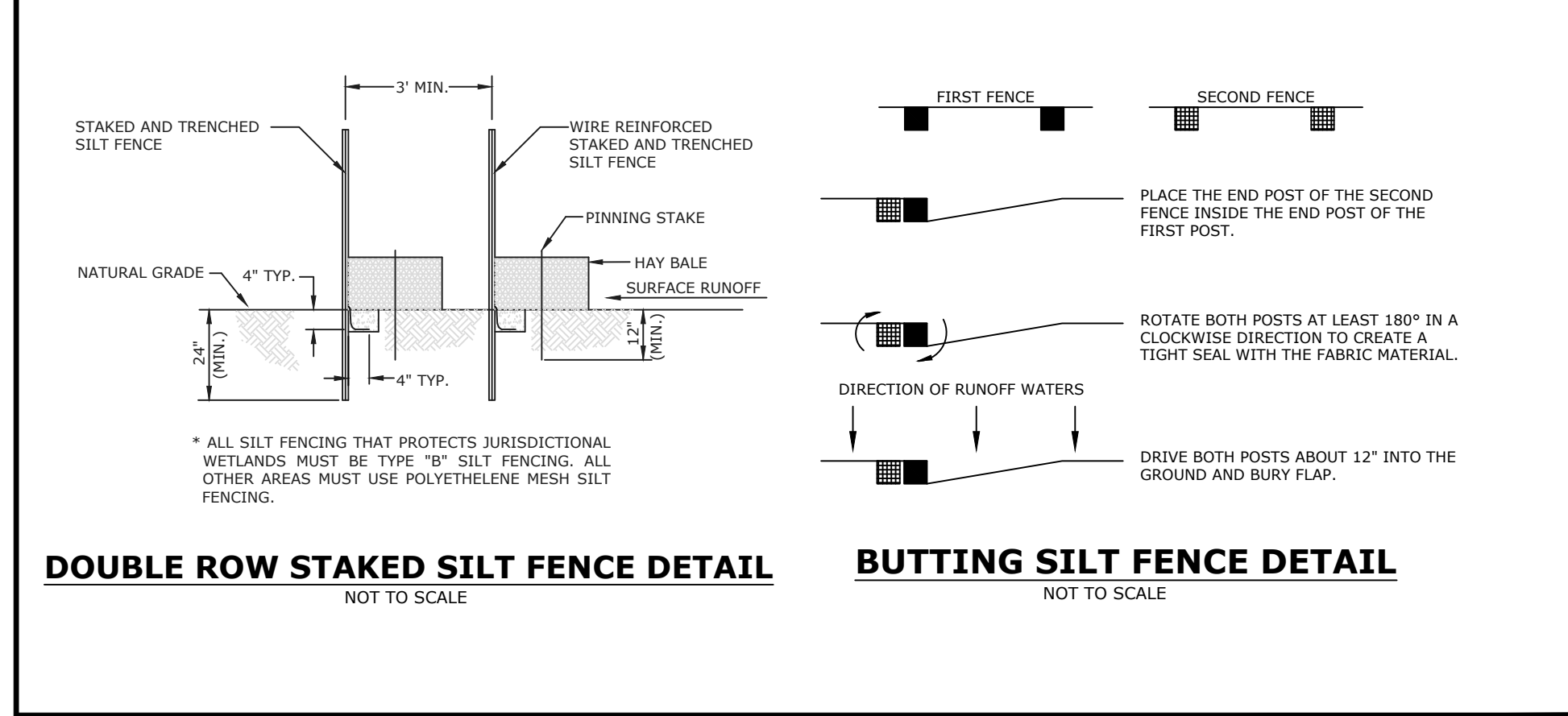
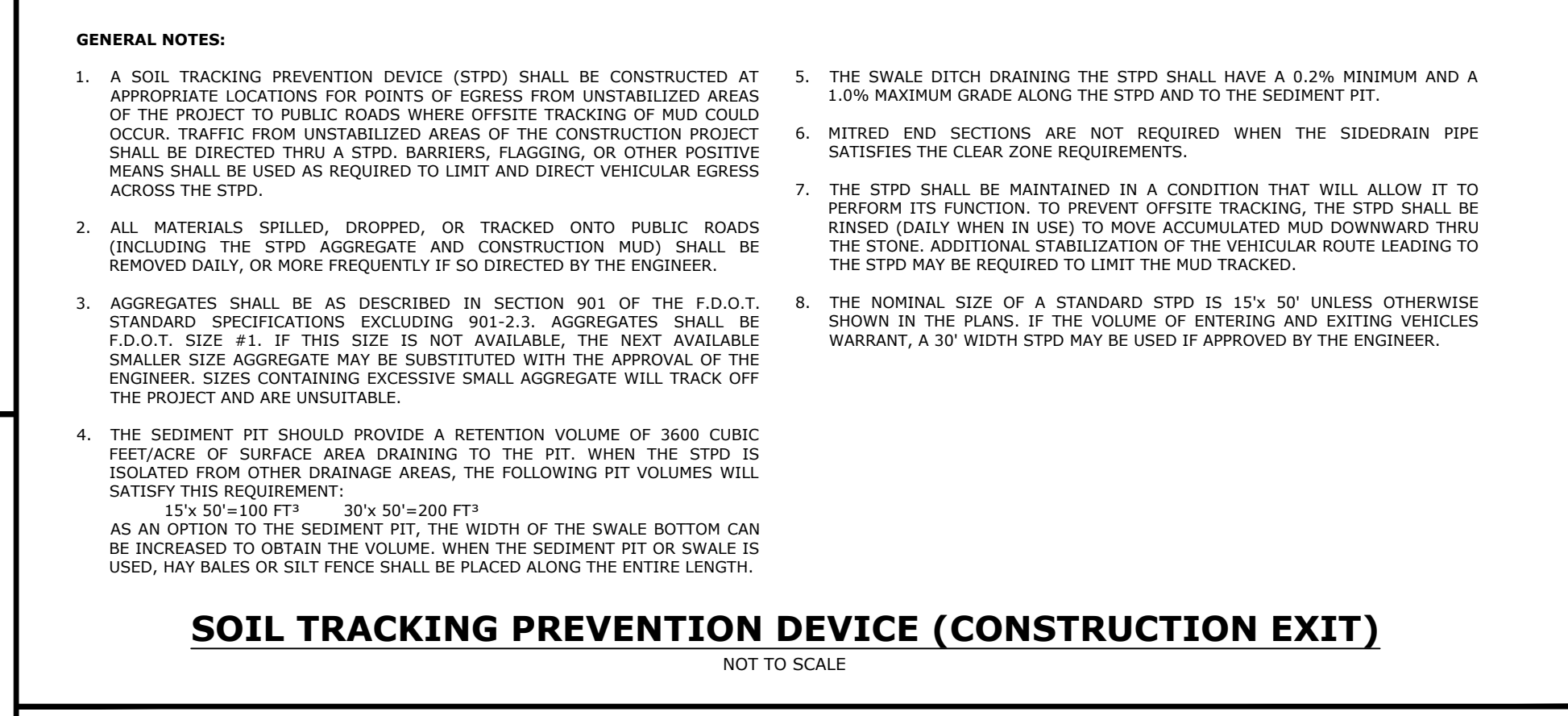
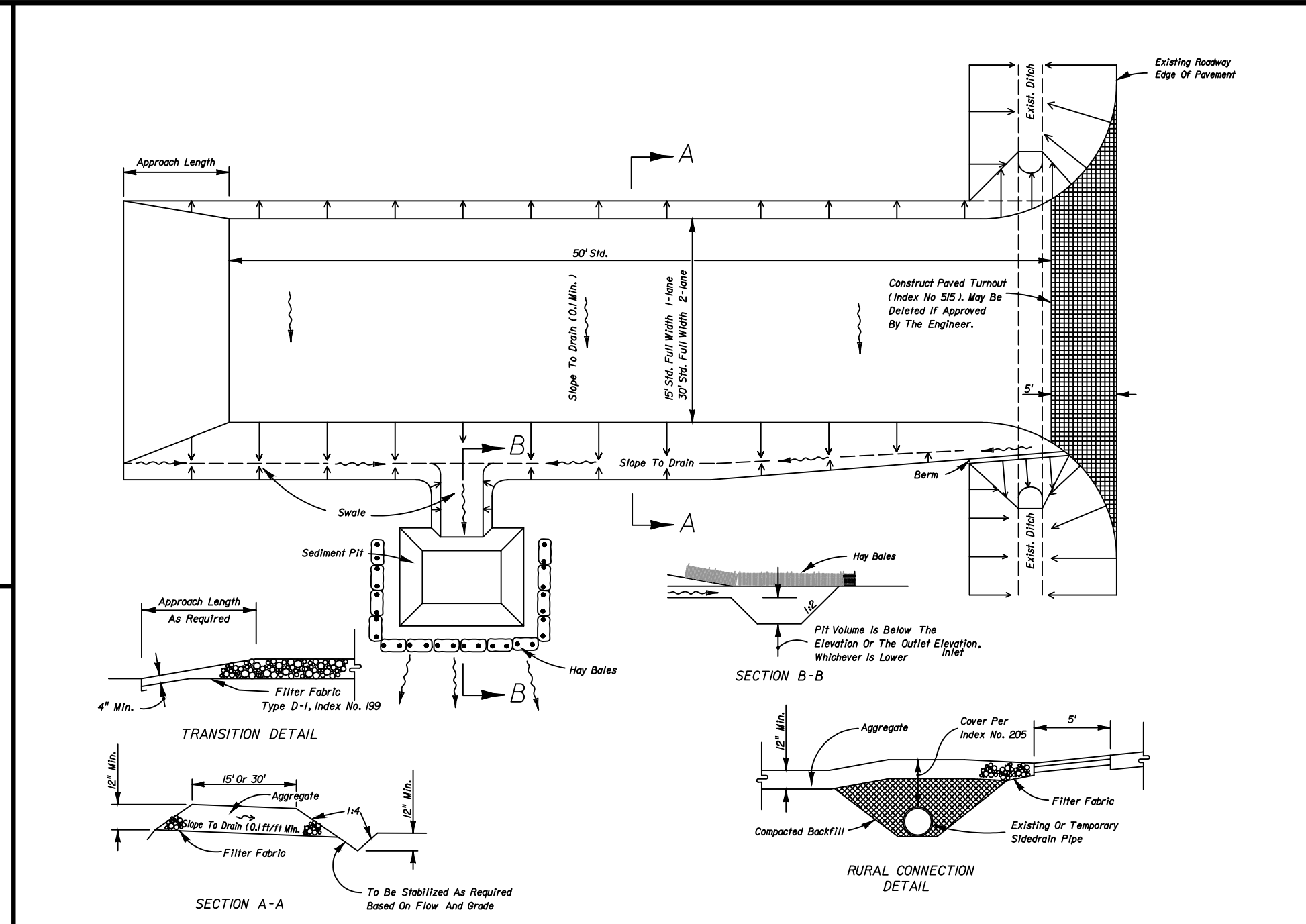
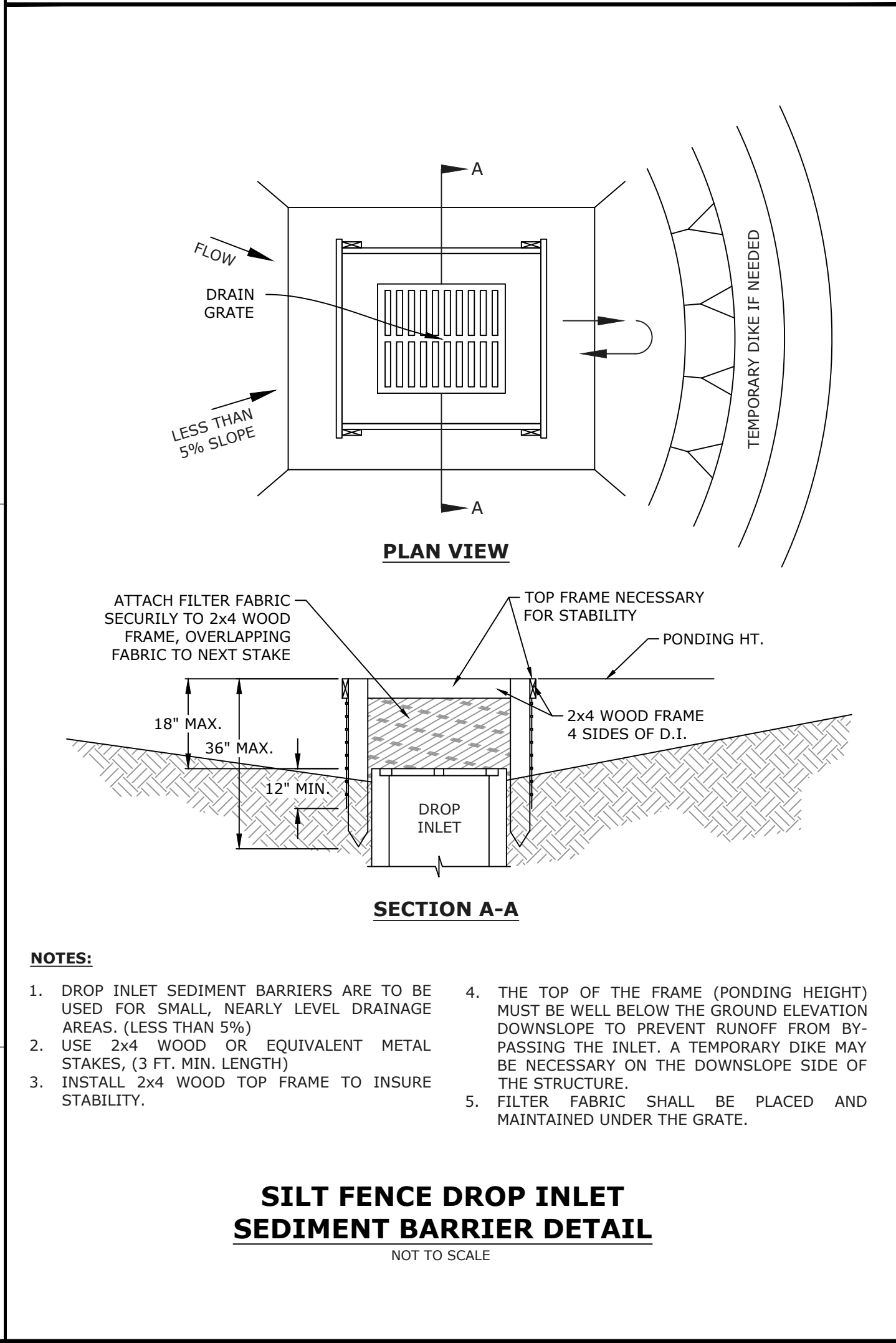
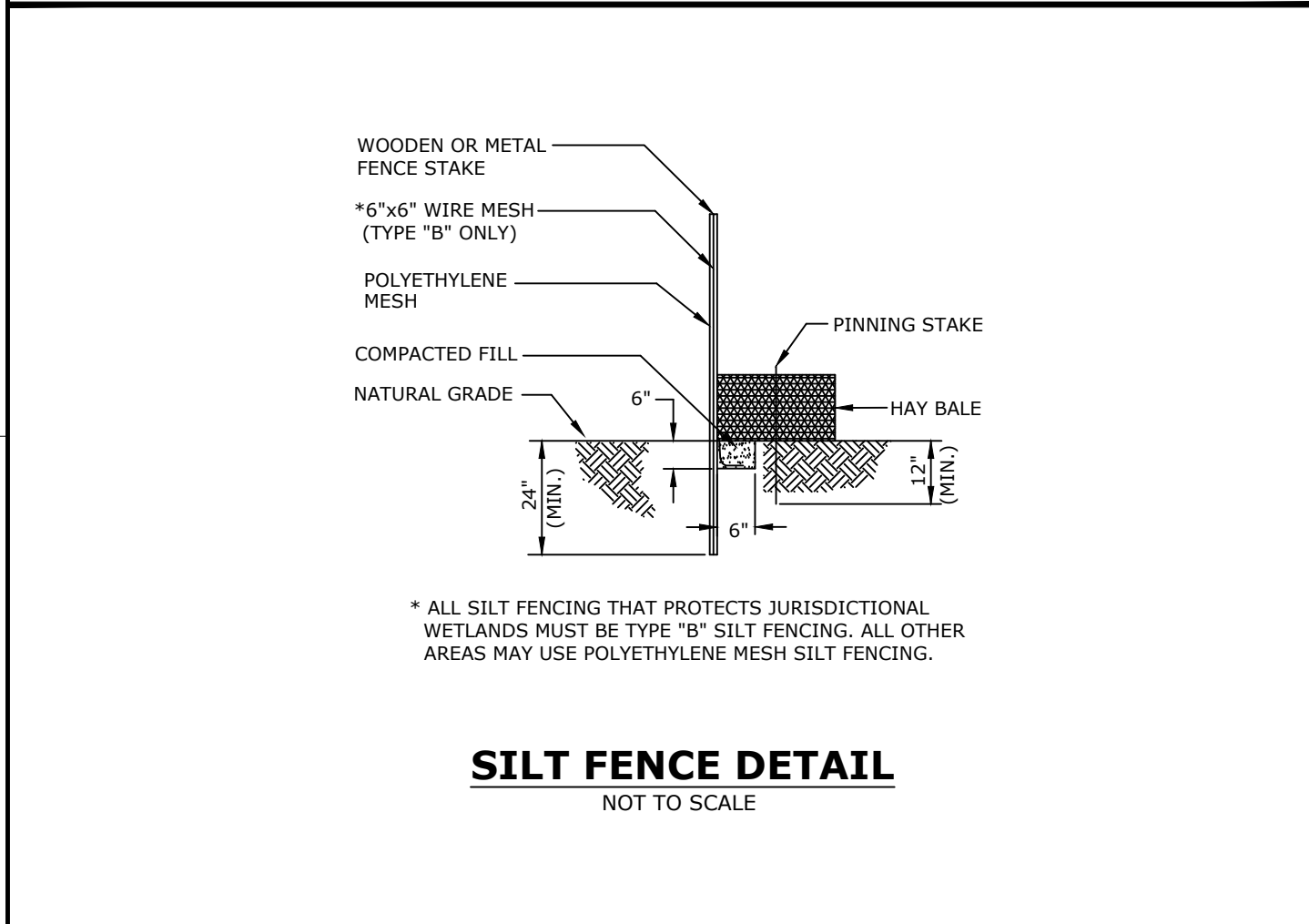
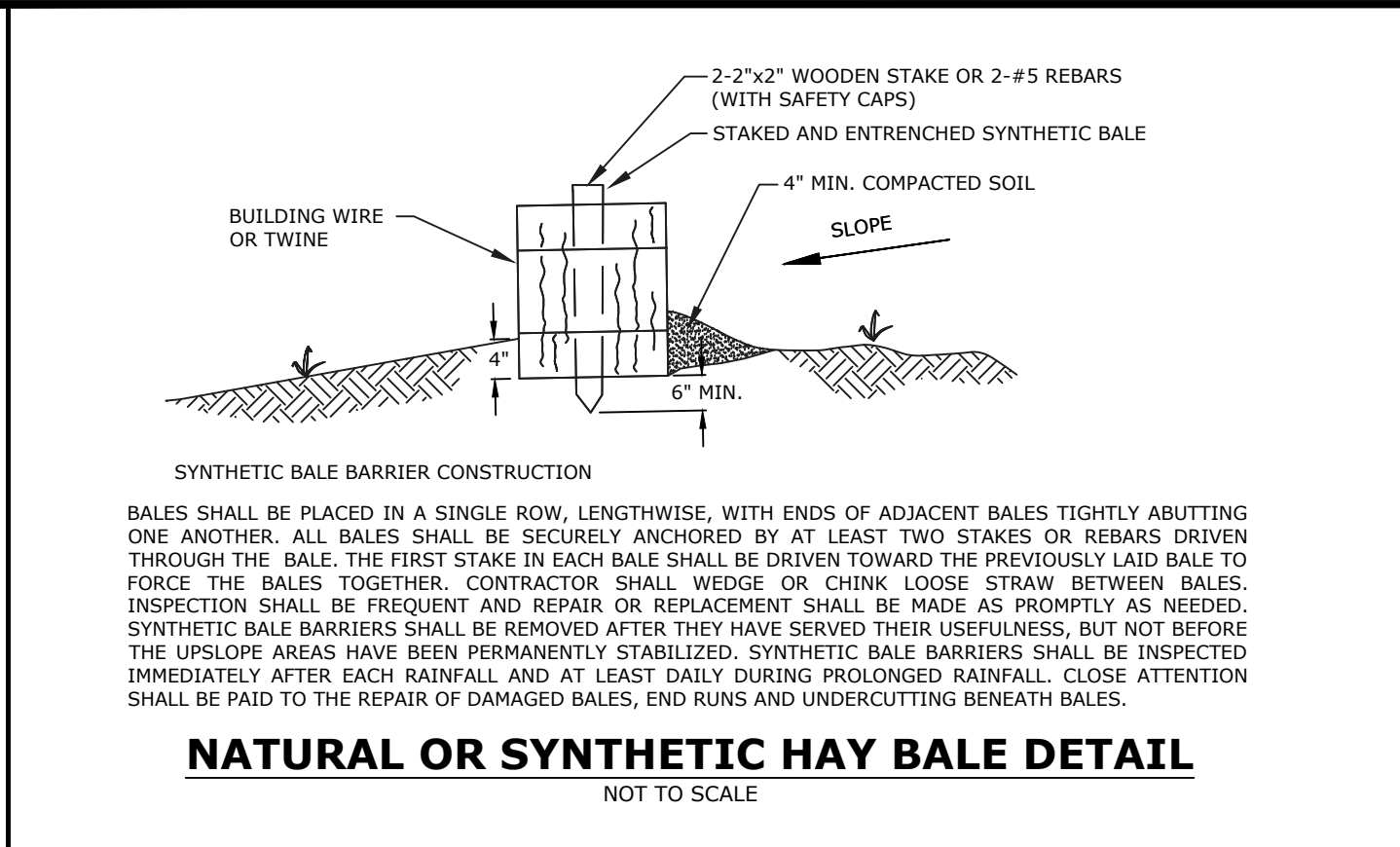
**MORENO STREET
STORMWATER POND & SIDEWALK IMPROVEMENTS
GENERAL NOTES & LEGEND**

EXCELLENCE IN ENGINEERING SERVICE 8874 Turkey Bluff Road Navarre, Florida 32566 P: (850) 889-8782 CERTIFICATE OF AUTHORIZATION: CA-30886		REG. FLA. ENG. NO. 55393	DATE
DRAWN BY: END	CHECKED BY: WVP/JJ	SIGNATURE	DATE
DESIGNED BY: DIE	PROJECT MANAGER: DMITRIY TRUKHIN	DISTRICT 3	SECTION/TOWNSHIP/RANGE 1E-25-34W
DATE: SEPTEMBER 2022	ESC DB-44-1P-11		

NUMBER	DATE	APPROVED BY	REVISIONS
1	6/12/23		RELEASED FOR CONSTRUCTION

DRAWING NUMBER	C-002
PROJECT NUMBER	170001-008
SURVEY NUMBER	ESC L-6069
SHEET	03 OF 18

PHASE	REVIEW	DATE	ORIGINATOR (OR)	CHECKER (RP)	CHANGE INCORPORATION	DATE	DATE	DATE	DATE	DATE	DATE
	SIGNATURE:	ORIGINATOR (OR)	CHECKER (RP)	CHANGE INCORPORATION	DATE	DATE	DATE	DATE	DATE	DATE	DATE
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- EROSION AND SEDIMENT CONTROL NOTES:**
- FOR ALL PROJECTS WHICH DISTURB MORE THAN ONE ACRE OF AREA, THE CONTRACTOR IS WHOLLY RESPONSIBLE FOR PREPARING, SUBMITTING, AND ACQUIRING THE FDEP/NPDES PERMIT, INCLUDING THE REQUIRED STORMWATER POLLUTION PREVENTION PLAN (SWPPP). THE CONTRACTOR SHALL SUBMIT A NOTICE OF INTENT TO FDEP NO LESS THAN 48 HOURS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES. THE CONTRACTOR IS ALSO RESPONSIBLE FOR ENSURING THAT THE PROJECT COMPLIES WITH THE PERMIT CONDITIONS (INCLUDING THE REQUIRED NPDES INSPECTIONS AND DOCUMENTATION) AND APPLICABLE LOCAL, STATE, AND FEDERAL WATER QUALITY STANDARDS DURING CONSTRUCTION. THE CONSTRUCTION DOCUMENTS CONTAIN ONLY THE MINIMUM REQUIREMENTS FOR EROSION AND SEDIMENT CONTROL. ANY AND ALL COSTS ASSOCIATED WITH OBTAINING THE NPDES PERMIT OR COMPLYING WITH THE PERMIT REQUIREMENTS SHALL BE BORNE BY THE CONTRACTOR.
 - WHEN REQUIRED, THE CONTRACTOR SHALL DEVELOP AND IMPLEMENT A SWPPP ACCORDING TO EPA/FDEP CRITERIA TO MINIMIZE EROSION AND ENSURE PROPER FUNCTIONING OF THE STORMWATER MANAGEMENT SYSTEM UPON COMPLETION OF CONSTRUCTION. IN ADDITION TO MEETING EPA/FDEP NPDES CRITERIA, THE SWPPP SHALL BE SUBMITTED TO AND COMPLY WITH ANY REQUIREMENTS OF THE LOCAL AGENCY HAVING JURISDICTION. A COPY OF THE APPROVED STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE KEPT ON SITE AT ALL TIMES FOR REVIEW AS MAY BE REQUIRED.
 - THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS AND ALL REGULATIONS CONTROLLING POLLUTION OF THE ENVIRONMENT.
 - CONTRACTOR SHALL EXECUTE ALL MEASURES AND IMPLEMENT ALL BEST MANAGEMENT PRACTICES NECESSARY TO LIMIT THE TRANSPORTATION OF SEDIMENTS OUTSIDE THE LIMITS OF THE PROJECT. THE EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION AND MUST REMAIN IN SATISFACTORY OPERATION UNTIL THE PROJECT IS FULLY COMPLETED AND ACCEPTED AND UNTIL THE PERMANENT EROSION CONTROL MEASURES ARE ESTABLISHED AND CAPABLE OF PROVIDING EROSION AND SILTATION CONTROL. CONTRACTOR SHALL PROVIDE ROUTINE MAINTENANCE ON TEMPORARY EROSION CONTROL MEASURES AT HIS EXPENSE. CONTRACTOR SHALL CONTINUALLY MONITOR WEATHER AND SITE CONDITIONS AND SHALL PROVIDE CONTINUOUS MONITORING OF EROSION AND SEDIMENT CONTROLS AND SHALL DOCUMENT ALL CORRECTIVE MEASURES.
 - INLETS AND CATCH BASINS SHALL BE PROTECTED FROM SEDIMENTATION RESULTING FROM SURFACE RUNOFF UNTIL COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CAUSE SEDIMENT TO RUNOFF. FILTER FABRIC SHALL BE PLACED AND MAINTAINED UNDER THE GRATE AND FILTER SOCKS SHALL BE PLACED IN FRONT OF THE THROAT OF CURB INLETS, DURING CONSTRUCTION AND SHALL BE MAINTAINED FOR THE DURATION OF THE PROJECT CONSTRUCTION.
 - ALL DISTURBED AREAS WHICH ARE NOT PAVED SHALL BE SEEDED, FERTILIZED AND MULCHED, HYDROSEEDDED, OR SODDED AS REQUIRED, UNLESS NOTED OTHERWISE. SOD PINS SHALL BE USED FOR ALL SOD PLACED ON SLOPES STEEPER THAN 3:1. AREAS OF ESTABLISHED SOD OR GROUND COVER SHALL BE REPLACED IN KIND TO MATCH THE EXISTING CONDITIONS PRIOR TO CONSTRUCTION COMMENCEMENT.
 - PERMANENT GRASSING SHALL BE INSTALLED AND MAINTAINED ON ALL EXPOSED SLOPES AND DISTURBED AREAS WITHIN 48 HOURS OF COMPLETING FINAL GRADING, AND AT ANY OTHER TIME AS NECESSARY, TO PREVENT EROSION, SEDIMENTATION, OR TURBID DISCHARGES. A VEGETATIVE COVER THAT STABILIZES AND PREVENTS EROSION SHALL BE ESTABLISHED WITHIN 60 DAYS OF PERMANENT GRASSING INSTALLATION. UPON ESTABLISHMENT OF A SUBSTANTIAL VEGETATIVE COVER, ALL TURBIDITY BARRIERS AND EROSION CONTROL MEASURES SHALL BE REMOVED.
 - ALL EROSION AND SEDIMENT CONTROLS SHALL BE CONSISTENT WITH PERFORMANCE STANDARDS FOR EROSION AND SEDIMENT CONTROL AND STORMWATER TREATMENT SET FORTH IN SECTION 62-40.432, OF THE FLORIDA ADMINISTRATIVE CODE, AS WELL AS THE APPLICABLE STORMWATER OR ENVIRONMENTAL RESOURCE PERMITTING REQUIREMENTS OF FDEP, THE APPLICABLE WATER MANAGEMENT DISTRICT, THE US ENVIRONMENTAL PROTECTION AGENCY AND THE GUIDELINES CONTAINED IN THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL (LATEST VERSION).
 - TEMPORARY SEDIMENT CONTROL MEASURES INCLUDE, BUT ARE NOT LIMITED TO: SILT FENCING; CONSTRUCTION OF SEDIMENT CHECK DAMS; CONSTRUCTION EXITS, FLOATING TURBIDITY CURTAINS, FILTER SOCKS; SEEDING AND MULCHING, ETC. PERMANENT SEDIMENT CONTROL MEASURES INCLUDE BUT ARE NOT LIMITED TO: PERMANENT GRASSING; EROSION BLANKETS; RIP RAP, ETC. MINIMUM STABILIZATION MEASURES ARE DETAILED ON THE CONSTRUCTION PLANS. THE CONTRACTOR SHALL INCLUDE ANY AND ALL MEASURES NECESSARY TO STABILIZE THE SITE, CONTROL EROSION, AND PREVENT SEDIMENT FROM ESCAPING THE SITE. THE CONTROL OF EROSION ON THE SITE COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.
 - CONSTRUCTION OPERATIONS SHALL BE SCHEDULED AND PERFORMED SO THAT PREVENTATIVE EROSION CONTROL MEASURES ARE IN PLACE PRIOR TO EXCAVATION. TEMPORARY STABILIZATION MEASURES SHALL BE IN PLACE IMMEDIATELY FOLLOWING CLEARING, BACKFILLING AND/OR GRADING OPERATIONS.
 - SPECIAL PRECAUTIONS WILL BE TAKEN IN THE USE OF CONSTRUCTION EQUIPMENT TO PREVENT SITUATIONS THAT PROMOTE EROSION.
 - CLEANUP WILL BE DONE IN A MANNER TO INSURE THAT EROSION CONTROL MEASURES ARE NOT DISTURBED.
 - THE PROJECT WILL BE CONTINUALLY INSPECTED FOR SOIL EROSION AND SEDIMENT CONTROL COMPLIANCE. DEFICIENCIES WILL BE CORRECTED BY THE CONTRACTOR WITHIN 24 HOURS.
 - TEMPORARY EROSION CONTROL MEASURES SHALL BE COMPLETELY REMOVED BY THE CONTRACTOR UPON ESTABLISHMENT OF PERMANENT CONTROL MEASURES OR WHEN DIRECTED BY THE OWNER.
 - THE CONTRACTOR SHALL RESTORE ALL DISTURBED RIGHTS-OF-WAY IN ACCORDANCE WITH THE LATEST EDITION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, OR THE REQUIREMENTS OF THE LOCAL AGENCY HAVING JURISDICTION (AHJ).
 - THE CONTRACTOR SHALL COMPLETE SITE RESTORATION AS THE PROJECT PROGRESSES.
 - THE OWNER SHALL SEND A COPY OF THE FDEP/NPDES NOTICE OF INTENT TO THE LOCAL BUILDING DEPARTMENT UPON RECEIPT, AS APPLICABLE.
 - THE CONTRACTOR SHALL INSTALL PRIOR TO THE START OF CONSTRUCTION AND MAINTAIN DURING CONSTRUCTION ALL SEDIMENT CONTROL MEASURES AS REQUIRED TO RETAIN ALL SEDIMENTS ON SITE. IMPROPER SEDIMENT CONTROL MEASURES MAY RESULT IN A CODE ENFORCEMENT VIOLATION.
 - THE CONTRACTOR IS RESPONSIBLE FOR PREVENTING TRACKING OF SOIL FROM THE SITE ONTO ADJACENT ROADWAYS. IN ADDITION TO THE INSTALLATION OF A CONSTRUCTION EXIT THE CONTRACTOR WILL BE RESPONSIBLE FOR SWEEPING ROADWAYS AS REQUIRED.
 - CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO CONTROL TURBIDITY IN SURROUNDING WATERS INCLUDING, BUT NOT LIMITED TO, THE INSTALLATION OF TURBIDITY BARRIERS AT ALL LOCATIONS WHERE THE POSSIBILITY OF TRANSFERRING SUSPENDED SOLIDS INTO THE RECEIVING BODY OF WATER EXISTS DUE TO THE PROPOSED WORK. TURBIDITY BARRIERS MUST BE MAINTAINED AT ALL LOCATIONS UNTIL CONSTRUCTION IS COMPLETED AND DISTURBED SOIL AREAS ARE STABILIZED. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REMOVING THE BARRIERS AND ANY ACCUMULATED SILT AT THE COMPLETION OF CONSTRUCTION AND PERMANENT STABILIZATION. AT NO TIME SHALL THERE BE ANY OFF-SITE DISCHARGE WHICH VIOLATES THE WATER QUALITY STANDARDS OF THE FLORIDA ADMINISTRATIVE CODE.
 - THE CONTRACTOR IS RESPONSIBLE FOR THE CONTROL OF DUST AND OTHER AIRBORNE POLLUTANTS DURING CONSTRUCTION. DUST SHALL BE CONTROLLED BY WATERING OR OTHER APPROVED METHODS AT THE CONTRACTOR'S DISCRETION.

MORENO STREET STORMWATER POND & SIDEWALK IMPROVEMENTS EROSION & SEDIMENT CONTROL GENERAL NOTES & DETAILS

EXCELLENCE IN ENGINEERING SERVICE
 8874 Turkey Bluff Road
 Navarre, Florida 32566
 P: (850) 869-8732
 CERTIFICATE OF AUTHORIZATION: CA-30886

MUNICIPAL ENGINEERING SERVICES INC

CHECKED BY: WVP/JJ
 DESIGNED BY: DJL
 PROJECT MANAGER: DMITRIY TROKHIN
 DATE: SEPTEMBER 2022
 DRAWN BY: EMD
 REG. FEA. NO.: 55393
 DISTRICT: 3
 SECTION/TOWNSHIP/RANGE: 12-25-34W

DATE: 6/12/2023

REVISIONS:
 1. RELEASED FOR CONSTRUCTION

DRAWING NUMBER: C-003
 PROJECT NUMBER: 170001-008
 SURVEY NUMBER: ESC L-6069

SHEET 04 OF 18

PHASE	REVIEW	DATE	ORIGINATOR (QR)	CHECKER (RP)	DATE	ORIGINATOR (QR)	CHECKER (RP)	DATE
SIGNATURE:	PRODUCTION CHECKING COMPLETE, READY FOR SUBMITTAL REVIEW (RP)		CHANGE INCORPORATION (Yellow Highlighter)	CHANGE INCORPORATION (Red Pen X-Out to Disagree or Remark)		VERIFICATION, CHECKER (QR)	REMARK INCORPORATION (Blue Highlighter)	DATE
			ORIGINATOR VERIFICATION (Correct (Pink Highlighter))					

Moreno Street Stormwater Pond and Sidewalk Improvements

Base Items

NO	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
1	Mobilization	LS	1		
2	Stormwater Pollution Prevention (Includes installation, replacement, acquiring NOI and Adhering to Permit)	LS	1		
3	Maintenance of Traffic (Including Plan, Approved Layout, and Installation)	LS	1		
4	Clearing and Grubbing (Including All Tree Removal, Fence Removal, Driveway Removal, etc.)	AC	1.73		
5	Remove Existing Storm Drain and End Treatment	LF	432		
6	Remove Existing Storm Drain Ditch Bottom Inlets	EA	5		
7	Replace Existing Mailboxes	EA	12		
8	Remove and Replace Unsuitable Material	CY	200		
9	Abandon Existing Sewer Lateral	EA	1		
10	Earthwork Pond Excavation	CY	8,364		
11	Earthwork Grade Pond Slopes	SY	4,507		
12	Sand Chimney Backfill	CY	625		
13	Centipede Sod (Including Pinning Where Appropriate)	SY	7,594		
14	Cut and Patch Existing Asphalt Roadway	SY	205		
15	Construct New Concrete Driveway	SY	203		
16	Construct New Asphalt Driveway	SY	41		
17	Construct New Gravel Driveway	SY	119		
18	Construct Flat Bottom Swale (Earthwork Only)	LF	360		
19	FDOT Type 'C' Ditch Bottom Inlet (6-10' Deep) No Slot	EA	1		
20	FDOT Type 'C' Ditch Bottom Inlet (0-6' Deep) No Slot over FDOT Type 'J' Junction Box (6' Diameter Round)	EA	2		
21	FDOT Type 'C' Ditch Bottom Inlet (6-10' Deep) 1 Slot over FDOT Type 'J' Junction Box (6' Diameter Round)	EA	2		
22	FDOT Type 'V' Gutter Inlet (0-6' Deep)	EA	1		
23	Concrete Valley Gutter	LF	121		
24	29" x 45" RCEP (6-10' Deep)	LF	29		
25	18" RCP Storm Drain (0-6' Deep)	LF	26		
26	18" RCP Storm Drain (6-10' Deep)	LF	36		
27	36" Class III RCP Storm Drain (0-6' Deep)	LF	172		
28	36" Storm Drain (0-6' Deep)	LF	137		
29	36" Class III RCP Storm Drain (6-10' Deep)	LF	25		
30	18" MES	EA	1		
31	36" FDOT U-Type Endwall (With Baffles)	EA	1		
32	Stone Rubble Rip Rap (6" Average Diameter) (Including Filter Fabric and Gravel Bedding)	SY	60		
33	Valvebox Adjustment	EA	1		
34	Manhole Ring and Cover Adjustment	EA	2		
35	Chain Link Fencing	LF	1,020		
36	14' Double Leaf Gate	EA	1		
37	FDOT Type "F" Curb & Gutter	LF	52		
38	5' Wide Fiber Reinforced Concrete Sidewalk	LF	1,352		
39	Construct Curb Ramp including approved Mat per FDOT Index No 522-002	EA	7		
40	Adjust Water Meter (Includes All Appurtenances for Adjustment to Final Grade)	EA	3		

Moreno Street Stormwater Pond and Sidewalk Improvements

Additive Alternate No. 1 Schedule (Roadway Resurfacing)

NO	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
1	Mill Asphalt Roadway (1")	SY	1,656		
2	Asphalt Overlay (1.5" SP 12.5)	SY	1,656		

Moreno Street Stormwater Pond and Sidewalk Improvements MESI Project No. 170001-008 August 29, 2022							
100% UTILITY CONFLICT MATRIX							
Conflict #	Utility Owner	Street	Station	Offset	Utility	Conflict Description	Recommended Resolution
1	FPL/ATT	Moreno	11+65	19' L	Utility Pole and OHU	Pole is in the path of the proposed storm	pole does not appear to serve anyone. Would like to remove along with OHU back to pole across the street
2	ECUA	Moreno	11+65	CL	8" PVC Gravity Sewer	Storm Drain Crossing	Locate and protect.
3	ECUA	Moreno	12+66	24' L	4" Sewer Lateral	Lateral will be to a pond	Would like to abandon, remove to EOP and cap at EOP
4	ECUA	R'	40+36	15' R	Valve box on 4" valve	Concrete Valley Gutter	Raise to Grade
5	ATT	R'	43+32	17' R	Telephone Monument	In Conflict with proposed 5' Sidewalk	Relocate outside of proposed 5' sidewalk
6	ECUA	R'	41+23	17' R	Water Meter	In Conflict with proposed 5' Sidewalk	Meter to be adjusted if necessary to be flush with proposed sidewalk
7	Pensacola Energy	Mallory Street	33+36	14' R	Gas Valve	In Conflict with proposed 5' Sidewalk	Gas Valve to be adjusted if necessary to be flush with proposed sidewalk
8	ECUA	Mallory Street	32+32	20' R	Water Meter	In Conflict with proposed 5' Sidewalk	Meter to be adjusted if necessary to be flush with proposed sidewalk
9	ECUA	Mallory Street	31+43	23' R	Water Meter	In Conflict with proposed 5' Sidewalk	Meter to be adjusted if necessary to be flush with proposed sidewalk

**MORENO STREET
STORMWATER POND & SIDEWALK IMPROVEMENTS
BID ITEMS &
UTILITY CONFLICT MATRIX**



MUNICIPAL ENGINEERING SERVICES INC.
 8574 Turkey Bluff Road
 Navarre, Florida 32566
 P: (850) 859-8732
 CERTIFICATE OF AUTHORIZATION: CE-30886

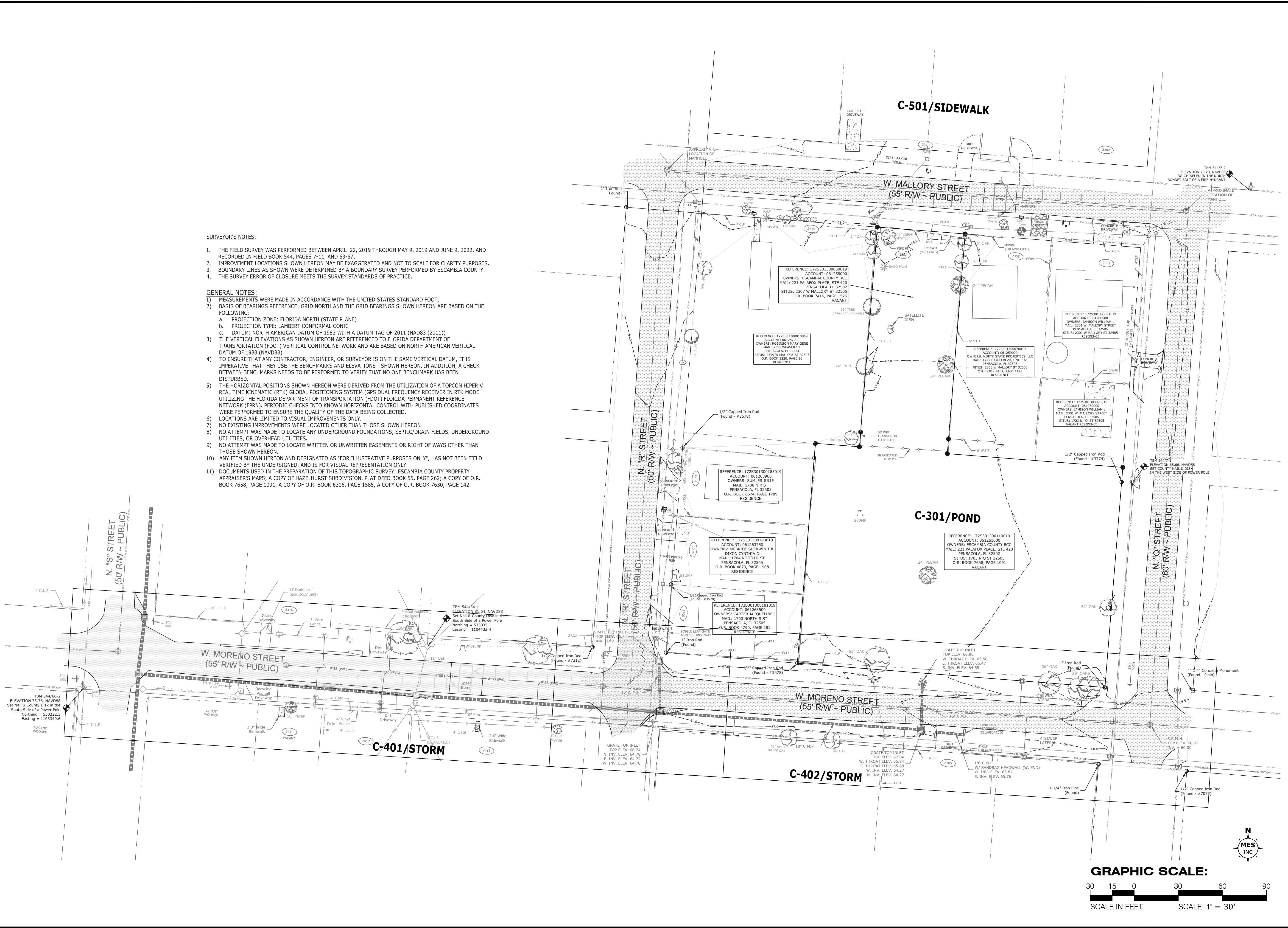
CHECKED BY: WVP/JJ
 DISTRICT: 3
 PROJECT MANAGER: DMITRIY TROKHIN
 SECTION/TOWNSHIP/RANGE: 17-25-34W

DRAWN BY: EMD
 DATE: SEPTEMBER 2022
 FIELD BOOK/PAGES: ESC PB #44, P# 7-11

REG. P.E. NO.: 55393
 SIGNATURE: DATE:

DATE	APPROVED BY	
6/12/23		
REVISIONS		
RELEASED FOR CONSTRUCTION		
DRAWING NUMBER	C-004	
PROJECT NUMBER	170001-008	
SURVEY NUMBER	ESC L-6069	
SHEET	05	OF 18

PHASE	REVIEW	DATE	ORIGINATOR (RP)	PRODUCTION CHECKING COMPLETE, READY FOR SUBMITTAL REVIEW (RP)	DATE	ORIGINATOR (QR)	Correct (Green Highlighter) Change (Red Pen)	DATE	VERIFICATION, CHECKER (QR)	(Blue Highlighter)	DATE
SIGNATURE:						CHECKER (RP)	(Red Pen X-Out to Diagnose or Remark)		REMARK INCORPORATION (Blue Highlighter)		DATE
						CHANGE INCORPORATION (Yellow Highlighter)			ORIGINATOR VERIFICATION (Correct (Pink Highlighter))		DATE

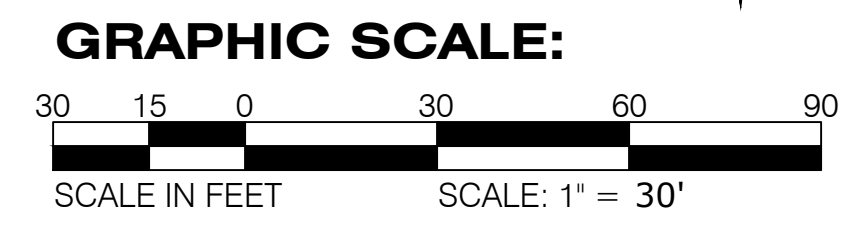


SURVEYOR'S NOTES:

- THE FIELD SURVEY WAS PERFORMED BETWEEN APRIL 22, 2019 THROUGH MAY 9, 2019 AND JUNE 9, 2022, AND RECORDED IN FIELD BOOK 544, PAGES 7-11, AND 63-67.
- IMPROVEMENT LOCATIONS SHOWN HEREON MAY BE EXAGGERATED AND NOT TO SCALE FOR CLARITY PURPOSES.
- BOUNDARY LINES AS SHOWN WERE DETERMINED BY A BOUNDARY SURVEY PERFORMED BY ESCAMBIA COUNTY.
- THE SURVEY ERROR OF CLOSURE MEETS THE SURVEY STANDARDS OF PRACTICE.

GENERAL NOTES:

- MEASUREMENTS WERE MADE IN ACCORDANCE WITH THE UNITED STATES STANDARD FOOT.
- BASIS OF BEARINGS REFERENCE: GRID NORTH AND THE GRID BEARINGS SHOWN HEREON ARE BASED ON THE FOLLOWING:
 - PROJECTION ZONE: FLORIDA NORTH (STATE PLANE)
 - PROJECTION TYPE: LAMBERT CONFORMAL CONIC
 - DATUM: NORTH AMERICAN DATUM OF 1983 WITH A DATUM TAG OF 2011 (NAD83 (2011))
- THE VERTICAL ELEVATIONS AS SHOWN HEREON ARE REFERENCED TO FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) VERTICAL CONTROL NETWORK AND ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
- TO ENSURE THAT ANY CONTRACTOR, ENGINEER, OR SURVEYOR IS ON THE SAME VERTICAL DATUM, IT IS IMPERATIVE THAT THEY USE THE BENCHMARKS AND ELEVATIONS SHOWN HEREON. IN ADDITION, A CHECK BETWEEN BENCHMARKS NEEDS TO BE PERFORMED TO VERIFY THAT NO ONE BENCHMARK HAS BEEN DISTURBED.
- THE HORIZONTAL POSITIONS SHOWN HEREON WERE DERIVED FROM THE UTILIZATION OF A TOPCON HIPER V REAL TIME KINEMATIC (RTK) GLOBAL POSITIONING SYSTEM (GPS DUAL FREQUENCY RECEIVER IN RTK MODE UTILIZING THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) FLORIDA PERMANENT REFERENCE NETWORK (FPRN). PERIODIC CHECKS INTO KNOWN HORIZONTAL CONTROL WITH PUBLISHED COORDINATES WERE PERFORMED TO ENSURE THE QUALITY OF THE DATA BEING COLLECTED.
- LOCATIONS ARE LIMITED TO VISUAL IMPROVEMENTS ONLY.
- NO EXISTING IMPROVEMENTS WERE LOCATED OTHER THAN THOSE SHOWN HEREON.
- NO ATTEMPT WAS MADE TO LOCATE ANY UNDERGROUND FOUNDATIONS, SEPTIC/DRAIN FIELDS, UNDERGROUND UTILITIES, OR OVERHEAD UTILITIES.
- NO ATTEMPT WAS MADE TO LOCATE WRITTEN OR UNWRITTEN EASEMENTS OR RIGHT OF WAYS OTHER THAN THOSE SHOWN HEREON.
- ANY ITEM SHOWN HEREON AND DESIGNATED AS "FOR ILLUSTRATIVE PURPOSES ONLY", HAS NOT BEEN FIELD VERIFIED BY THE UNDERSIGNED, AND IS FOR VISUAL REPRESENTATION ONLY.
- DOCUMENTS USED IN THE PREPARATION OF THIS TOPOGRAPHIC SURVEY: ESCAMBIA COUNTY PROPERTY APPRAISER'S MAPS; A COPY OF HAZELHURST SUBDIVISION, PLAT DEED BOOK 55, PAGE 262; A COPY OF O.R. BOOK 7658, PAGE 1091, A COPY OF O.R. BOOK 6316, PAGE 1585, A COPY OF O.R. BOOK 7630, PAGE 142.



ESCAMBIA COUNTY, FLORIDA

MORENO STREET STORMWATER POND & SIDEWALK IMPROVEMENTS OVERALL SITE PLAN AND SHEET INDEX

EXCELLENCE IN ENGINEERING SERVICE
8874 Turkey Bluff Road
Neville, Florida 32566
P: (850) 869-5732
CERTIFICATE OF AUTHORIZATION: CA-30886

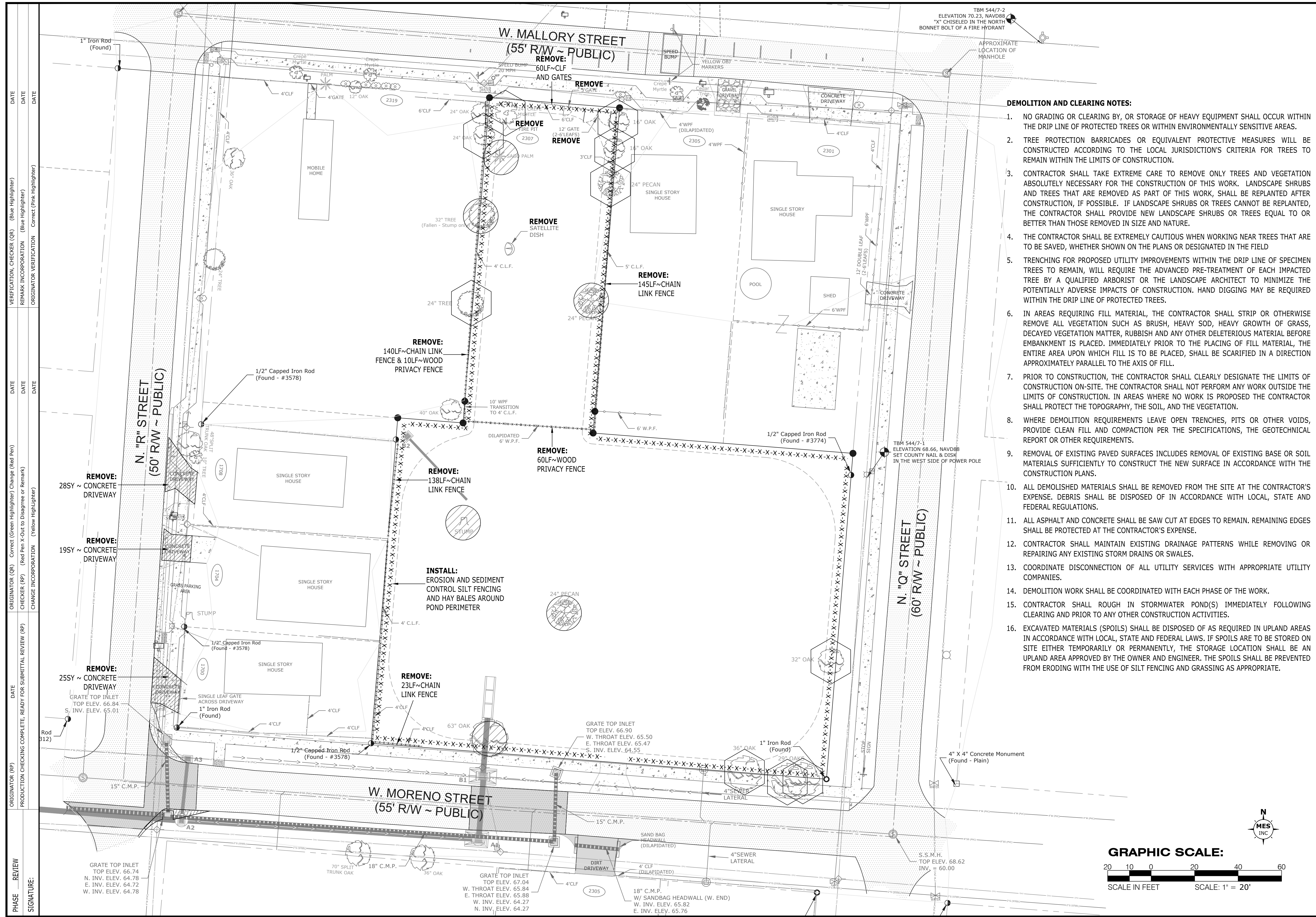
MUNICIPAL ENGINEERING SERVICES, INC.

DESIGNED BY: WVP/JJ	CHECKED BY: WVP/JJ	DATE: 5/5/23
DRAWN BY: END	DISTRICT: 3	SIGNATURE: [Signature]
DATE: SEPTEMBER 2022	SECTION/TOWNSHIP/RANGE: 17-25-34W	DATE ELOUP: [Signature]
FILE NO: ESC-DB-44-PT-11		

DATE	APPROVED BY
6/1/2023	

REVISIONS	NUMBER	RELEASED FOR CONSTRUCTION
1		

DRAWING NUMBER: C-101
PROJECT NUMBER: 170001-008
SURVEY NUMBER: ESC L-6069
SHEET 06 OF 18



- DEMOLITION AND CLEARING NOTES:**
- NO GRADING OR CLEARING BY, OR STORAGE OF HEAVY EQUIPMENT SHALL OCCUR WITHIN THE DRIP LINE OF PROTECTED TREES OR WITHIN ENVIRONMENTALLY SENSITIVE AREAS.
 - TREE PROTECTION BARRICADES OR EQUIVALENT PROTECTIVE MEASURES WILL BE CONSTRUCTED ACCORDING TO THE LOCAL JURISDICTION'S CRITERIA FOR TREES TO REMAIN WITHIN THE LIMITS OF CONSTRUCTION.
 - CONTRACTOR SHALL TAKE EXTREME CARE TO REMOVE ONLY TREES AND VEGETATION ABSOLUTELY NECESSARY FOR THE CONSTRUCTION OF THIS WORK. LANDSCAPE SHRUBS AND TREES THAT ARE REMOVED AS PART OF THIS WORK, SHALL BE REPLANTED AFTER CONSTRUCTION, IF POSSIBLE. IF LANDSCAPE SHRUBS OR TREES CANNOT BE REPLANTED, THE CONTRACTOR SHALL PROVIDE NEW LANDSCAPE SHRUBS OR TREES EQUAL TO OR BETTER THAN THOSE REMOVED IN SIZE AND NATURE.
 - THE CONTRACTOR SHALL BE EXTREMELY CAUTIOUS WHEN WORKING NEAR TREES THAT ARE TO BE SAVED, WHETHER SHOWN ON THE PLANS OR DESIGNATED IN THE FIELD
 - TRENCHING FOR PROPOSED UTILITY IMPROVEMENTS WITHIN THE DRIP LINE OF SPECIMEN TREES TO REMAIN, WILL REQUIRE THE ADVANCED PRE-TREATMENT OF EACH IMPACTED TREE BY A QUALIFIED ARBORIST OR THE LANDSCAPE ARCHITECT TO MINIMIZE THE POTENTIALLY ADVERSE IMPACTS OF CONSTRUCTION. HAND DIGGING MAY BE REQUIRED WITHIN THE DRIP LINE OF PROTECTED TREES.
 - IN AREAS REQUIRING FILL MATERIAL, THE CONTRACTOR SHALL STRIP OR OTHERWISE REMOVE ALL VEGETATION SUCH AS BRUSH, HEAVY SOD, HEAVY GROWTH OF GRASS, DECAYED VEGETATION MATTER, RUBBISH AND ANY OTHER DELETERIOUS MATERIAL BEFORE EMBANKMENT IS PLACED. IMMEDIATELY PRIOR TO THE PLACING OF FILL MATERIAL, THE ENTIRE AREA UPON WHICH FILL IS TO BE PLACED, SHALL BE SCARIFIED IN A DIRECTION APPROXIMATELY PARALLEL TO THE AXIS OF FILL.
 - PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CLEARLY DESIGNATE THE LIMITS OF CONSTRUCTION ON-SITE. THE CONTRACTOR SHALL NOT PERFORM ANY WORK OUTSIDE THE LIMITS OF CONSTRUCTION. IN AREAS WHERE NO WORK IS PROPOSED THE CONTRACTOR SHALL PROTECT THE TOPOGRAPHY, THE SOIL, AND THE VEGETATION.
 - WHERE DEMOLITION REQUIREMENTS LEAVE OPEN TRENCHES, PITS OR OTHER VOIDS, PROVIDE CLEAN FILL AND COMPACTION PER THE SPECIFICATIONS, THE GEOTECHNICAL REPORT OR OTHER REQUIREMENTS.
 - REMOVAL OF EXISTING PAVED SURFACES INCLUDES REMOVAL OF EXISTING BASE OR SOIL MATERIALS SUFFICIENTLY TO CONSTRUCT THE NEW SURFACE IN ACCORDANCE WITH THE CONSTRUCTION PLANS.
 - ALL DEMOLISHED MATERIALS SHALL BE REMOVED FROM THE SITE AT THE CONTRACTOR'S EXPENSE. DEBRIS SHALL BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
 - ALL ASPHALT AND CONCRETE SHALL BE SAW CUT AT EDGES TO REMAIN. REMAINING EDGES SHALL BE PROTECTED AT THE CONTRACTOR'S EXPENSE.
 - CONTRACTOR SHALL MAINTAIN EXISTING DRAINAGE PATTERNS WHILE REMOVING OR REPAIRING ANY EXISTING STORM DRAINS OR SWALES.
 - COORDINATE DISCONNECTION OF ALL UTILITY SERVICES WITH APPROPRIATE UTILITY COMPANIES.
 - DEMOLITION WORK SHALL BE COORDINATED WITH EACH PHASE OF THE WORK.
 - CONTRACTOR SHALL ROUGH IN STORMWATER POND(S) IMMEDIATELY FOLLOWING CLEARING AND PRIOR TO ANY OTHER CONSTRUCTION ACTIVITIES.
 - EXCAVATED MATERIALS (SPOILS) SHALL BE DISPOSED OF AS REQUIRED IN UPLAND AREAS IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL LAWS. IF SPOILS ARE TO BE STORED ON SITE EITHER TEMPORARILY OR PERMANENTLY, THE STORAGE LOCATION SHALL BE AN UPLAND AREA APPROVED BY THE OWNER AND ENGINEER. THE SPOILS SHALL BE PREVENTED FROM ERODING WITH THE USE OF SILT FENCING AND GRASSING AS APPROPRIATE.

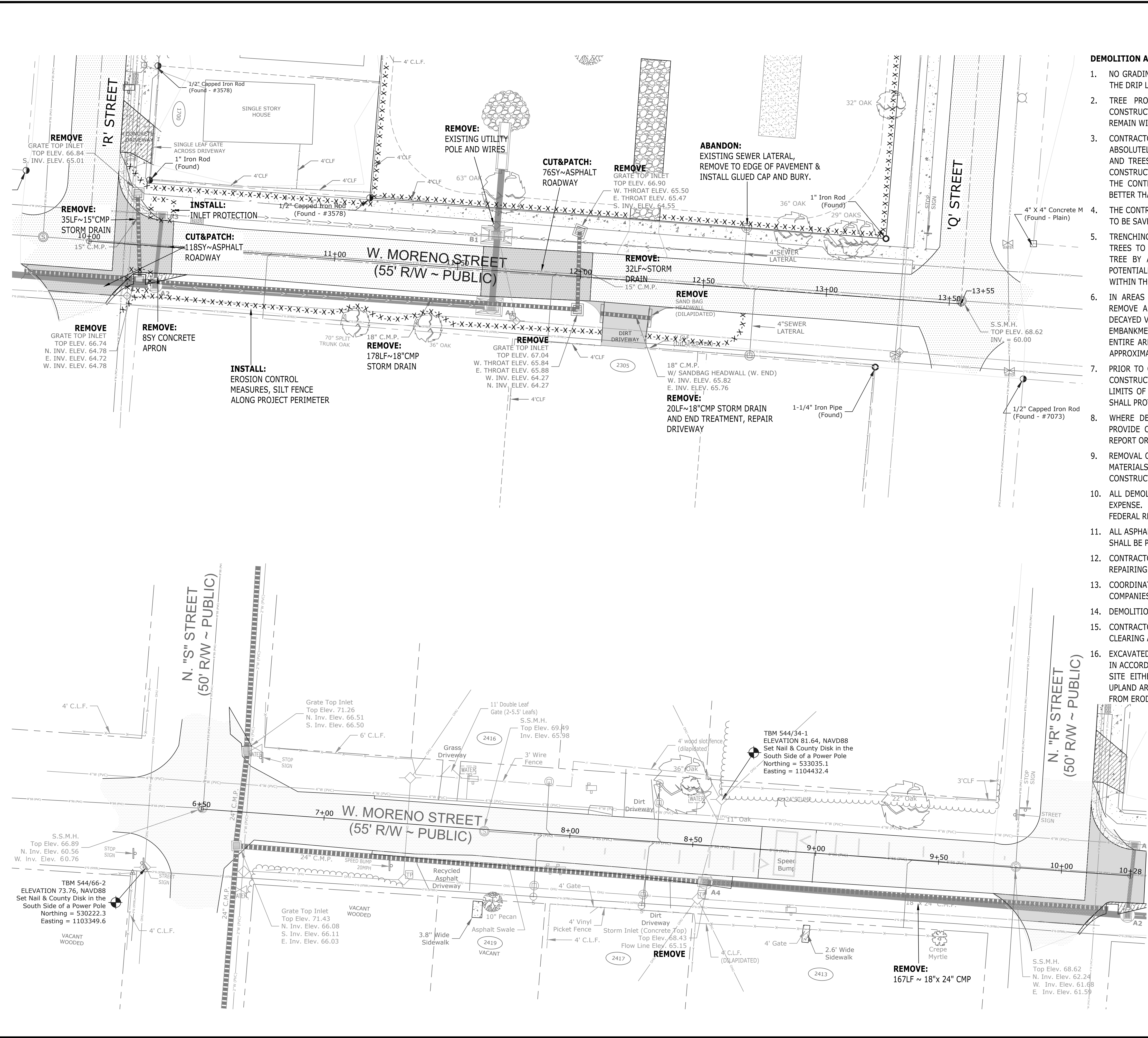
**MORENO STREET
STORMWATER POND & SIDEWALK IMPROVEMENTS
DEMOLITION AND EROSION CONTROL PLAN
(POND AREA)**

EXCELLENCE IN ENGINEERING SERVICE
8874 Turkey Buffet Road
Navarre, Florida 32566
P: (850) 869-8702
CERTIFICATE OF AUTHORIZATION: CA-30886

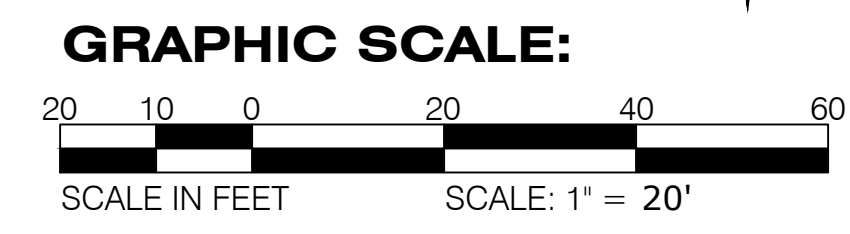
DATE	6/17/2023	APPROVED BY	
REVISIONS		DESIGNED BY	DIEL
RELEASED FOR CONSTRUCTION		CHECKED BY	WVP/JJ
		PROJECT MANAGER	DMITRIY TROKHIN
		DISTRICT	3
		SECTION/TOWNSHIP/RANGE	17-25-34W
		DRAWN BY	END
		DATE	SEPTEMBER 2022
		SCALE	ESC CD-44, P1-P41
		REG. P.E. NO.	55393
		DATE	
		SIGNATURE	
		DATE	

DRAWING NUMBER: C-201
PROJECT NUMBER: 170001-008
SURVEY NUMBER: ESC L-6069
SHEET: 07 OF 18

PHASE	REVIEW	DATE	ORIGINATOR (RP)	CHECKER (RP)	DATE	ORIGINATOR (QR)	CHECKER (QR)	DATE
SIGNATURE:	PRODUCTION CHECKING COMPLETE, READY FOR SUBMITTAL REVIEW (RP)					VERIFICATION, CHECKER (QR)		
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 - REMOVAL OF EXISTING PAVED SURFACES INCLUDES REMOVAL OF EXISTING BASE OR SOIL MATERIALS SUFFICIENTLY TO CONSTRUCT THE NEW SURFACE IN ACCORDANCE WITH THE CONSTRUCTION PLANS.
 - ALL DEMOLISHED MATERIALS SHALL BE REMOVED FROM THE SITE AT THE CONTRACTOR'S EXPENSE. DEBRIS SHALL BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
 - ALL ASPHALT AND CONCRETE SHALL BE SAW CUT AT EDGES TO REMAIN. REMAINING EDGES SHALL BE PROTECTED AT THE CONTRACTOR'S EXPENSE.
 - CONTRACTOR SHALL MAINTAIN EXISTING DRAINAGE PATTERNS WHILE REMOVING OR REPAIRING ANY EXISTING STORM DRAINS OR SWALES.
 - COORDINATE DISCONNECTION OF ALL UTILITY SERVICES WITH APPROPRIATE UTILITY COMPANIES.
 - DEMOLITION WORK SHALL BE COORDINATED WITH EACH PHASE OF THE WORK.
 - CONTRACTOR SHALL ROUGH IN STORMWATER POND(S) IMMEDIATELY FOLLOWING CLEARING AND PRIOR TO ANY OTHER CONSTRUCTION ACTIVITIES.
 - EXCAVATED MATERIALS (SPOILS) SHALL BE DISPOSED OF AS REQUIRED IN UPLAND AREAS IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL LAWS. IF SPOILS ARE TO BE STORED ON SITE EITHER TEMPORARILY OR PERMANENTLY, THE STORAGE LOCATION SHALL BE AN UPLAND AREA APPROVED BY THE OWNER AND ENGINEER. THE SPOILS SHALL BE PREVENTED FROM ERODING WITH THE USE OF SILT FENCING AND GRASSING AS APPROPRIATE.



**MORENO STREET
STORMWATER POND & SIDEWALK IMPROVEMENTS
DEMOLITION AND EROSION CONTROL PLAN
(MORENO STREET)**

EXCELLENCE IN ENGINEERING SERVICE
8874 Turkey Buffet Road
Navarre, Florida 32566
P: (850) 889-8702
CERTIFICATE OF AUTHORIZATION: CA-30886

DESIGNED BY: DJL	CHECKED BY: WVP/JJ	DATE: SEPTEMBER 2022	REG. STA. NO.: 55393
DRAWN BY: EMD	PROJECT MANAGER: DMITRIY TROKHIN	DATE: SEPTEMBER 2022	SIGNATURE: _____
DATE: 6/17/2023	DISTRICT: 3	SECTION/TOWNSHIP/RANGE: 17-25-34W	DATE PLOTTED: _____

REVISIONS

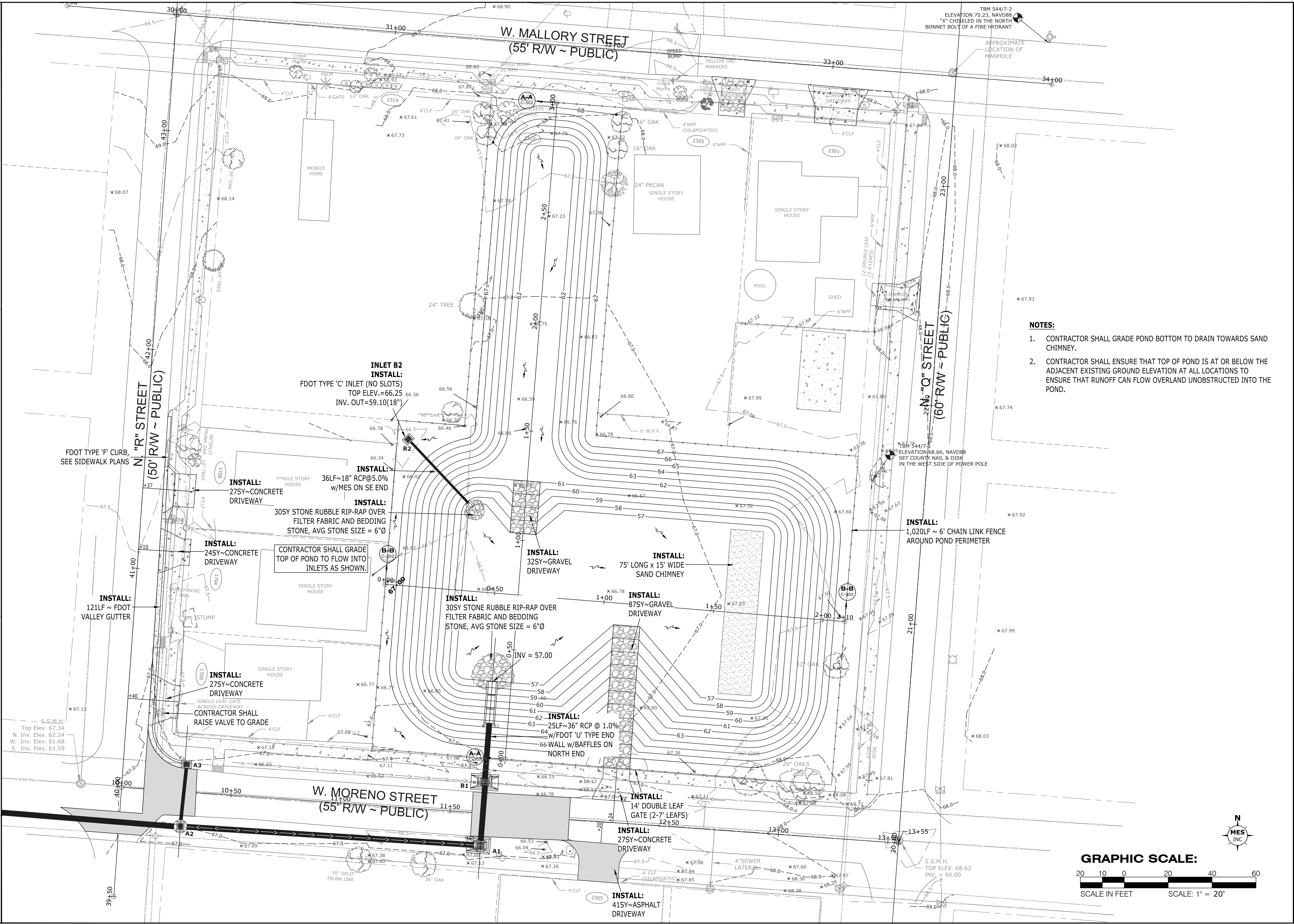
NUMBER	DATE	APPROVED BY
1	6/17/2023	

RELEASED FOR CONSTRUCTION

DRAWING NUMBER	C-202
PROJECT NUMBER	170001-008
SURVEY NUMBER	ESC L-6069


SHEET **08** OF **18**

PHASE	REVIEW	DATE	ORIGINATOR (RP)	PRODUCTION CHECKING COMPLETE, READY FOR SUBMITTAL REVIEW (RP)	DATE	ORIGINATOR (QR)	CORRECT (Green Highlighter) Change (Red Pen)	DATE	VERIFICATION CHECKER (QR)	(Blue Highlighter)	DATE
SIGNATURE:			CHECKER (RP)	CHANGE INCORPORATION (Yellow Highlighter)	DATE	CHECKER (RP)	(Red Pen X-Out to Disagree or Remark)	DATE	REMARK INCORPORATION (Blue Highlighter)	(Blue Highlighter)	DATE
									ORIGINATOR VERIFICATION	Correct (Pink Highlighter)	DATE



- NOTES:**
- CONTRACTOR SHALL GRADE POND BOTTOM TO DRAIN TOWARDS SAND CHIMNEY.
 - CONTRACTOR SHALL ENSURE THAT TOP OF POND IS AT OR BELOW THE ADJACENT EXISTING GROUND ELEVATION AT ALL LOCATIONS TO ENSURE THAT RUNOFF CAN FLOW OVERLAND UNOBSTRUCTED INTO THE POND.

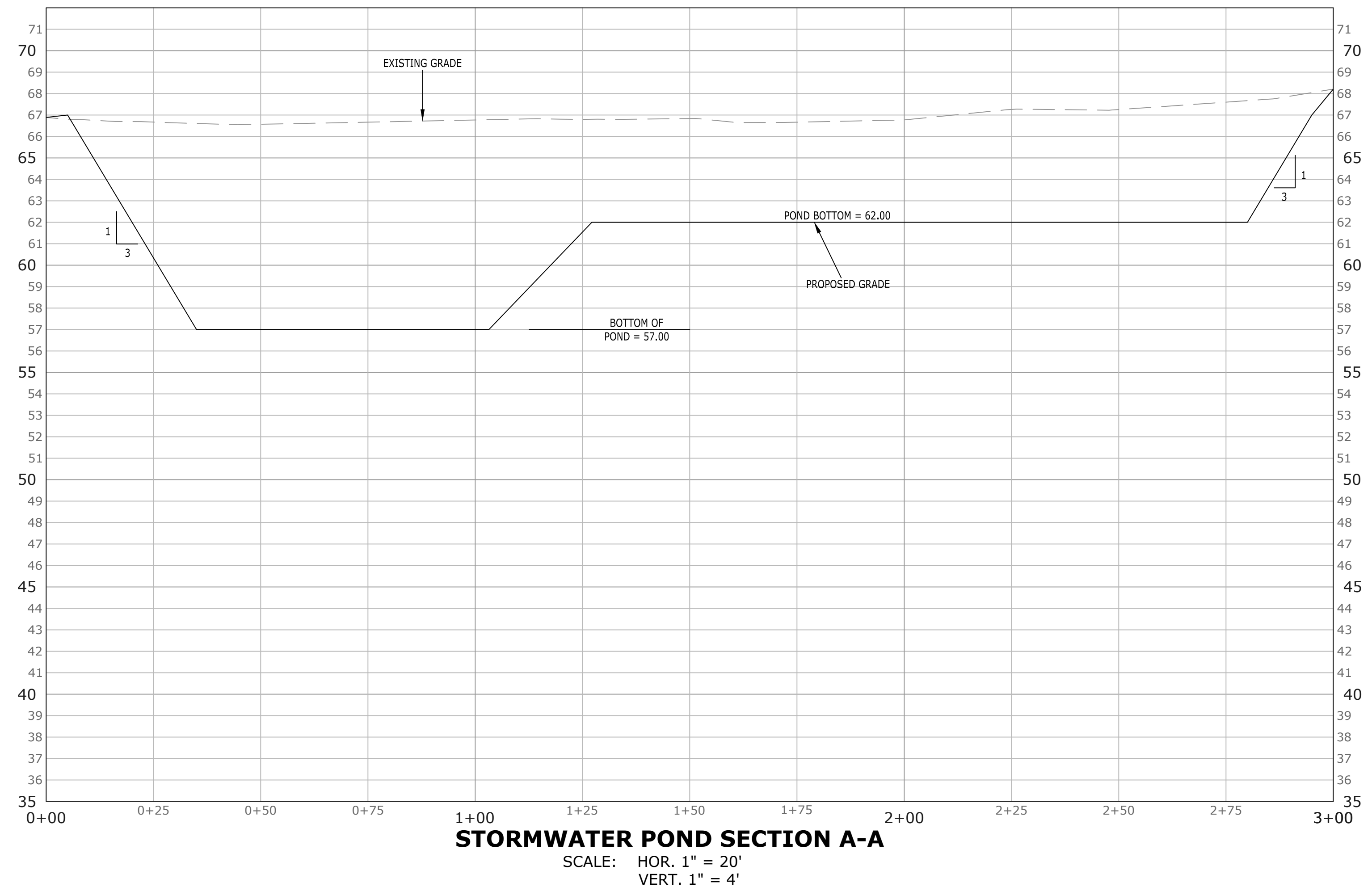
**MORENO STREET
STORMWATER POND & SIDEWALK IMPROVEMENTS
SITE AND GRADING PLAN**



EXCELLENCE IN ENGINEERING SERVICE		CERTIFICATE OF AUTHORIZATION: CA-30886	
Navarro Fields 38886		DATE:	
P: (800) 899-9732		5/5/23	
REG. P.E. NO.:		SIGNATURE:	
DIMITRIKHOIN		DALEE LONG, P.E.	
SECTION/TOWNSHIP/RANGE		17-28-30W	
DISTRICT		3	
PROJECT MANAGER:		WVP II	
DESIGNED BY:		DML	
DRAWN BY:		END	
DATE:		SEPTEMBER 2022	
FIELDBOOK PAGES:		17-28-30W	
ESC FB 44, PP 7-11			

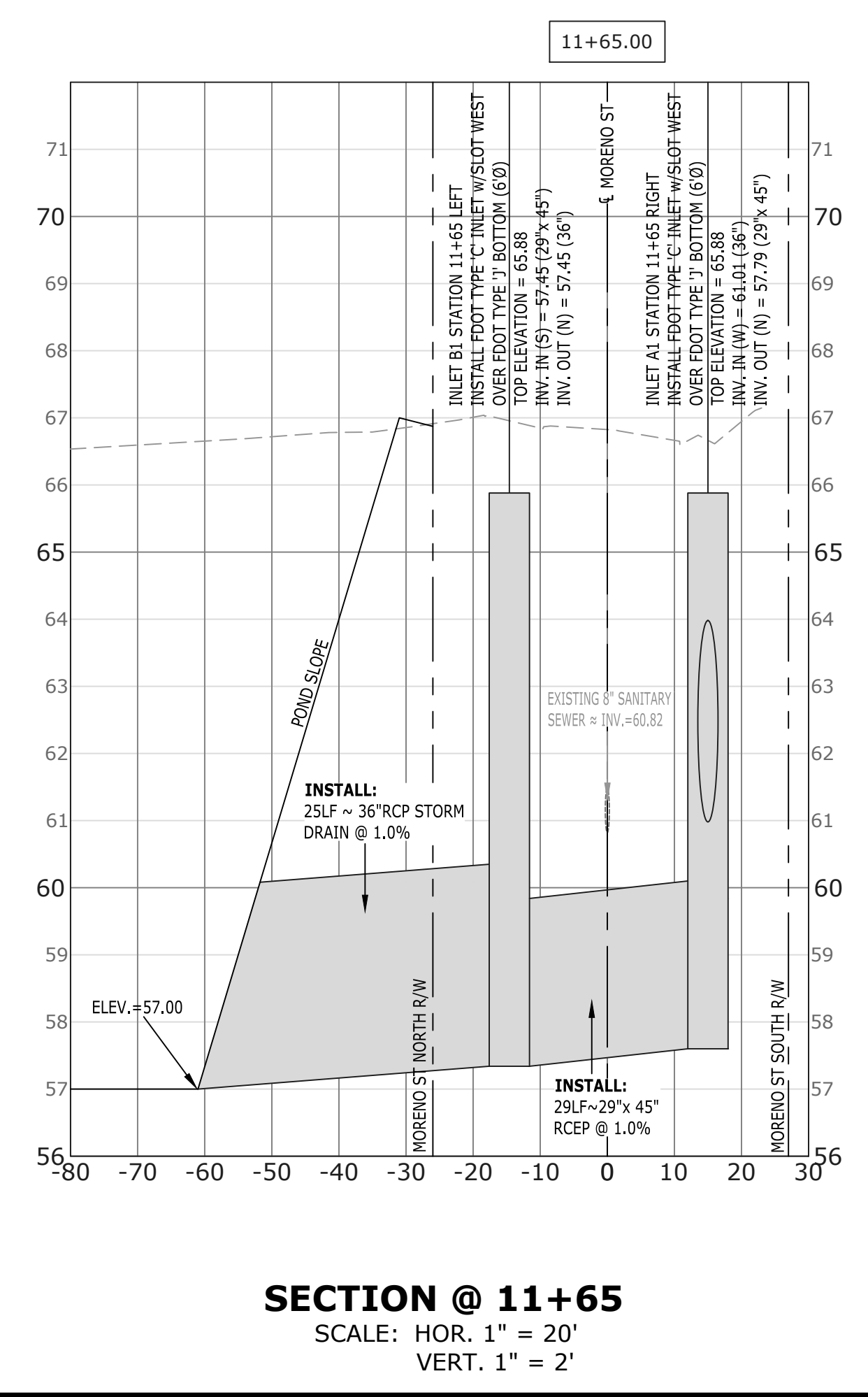
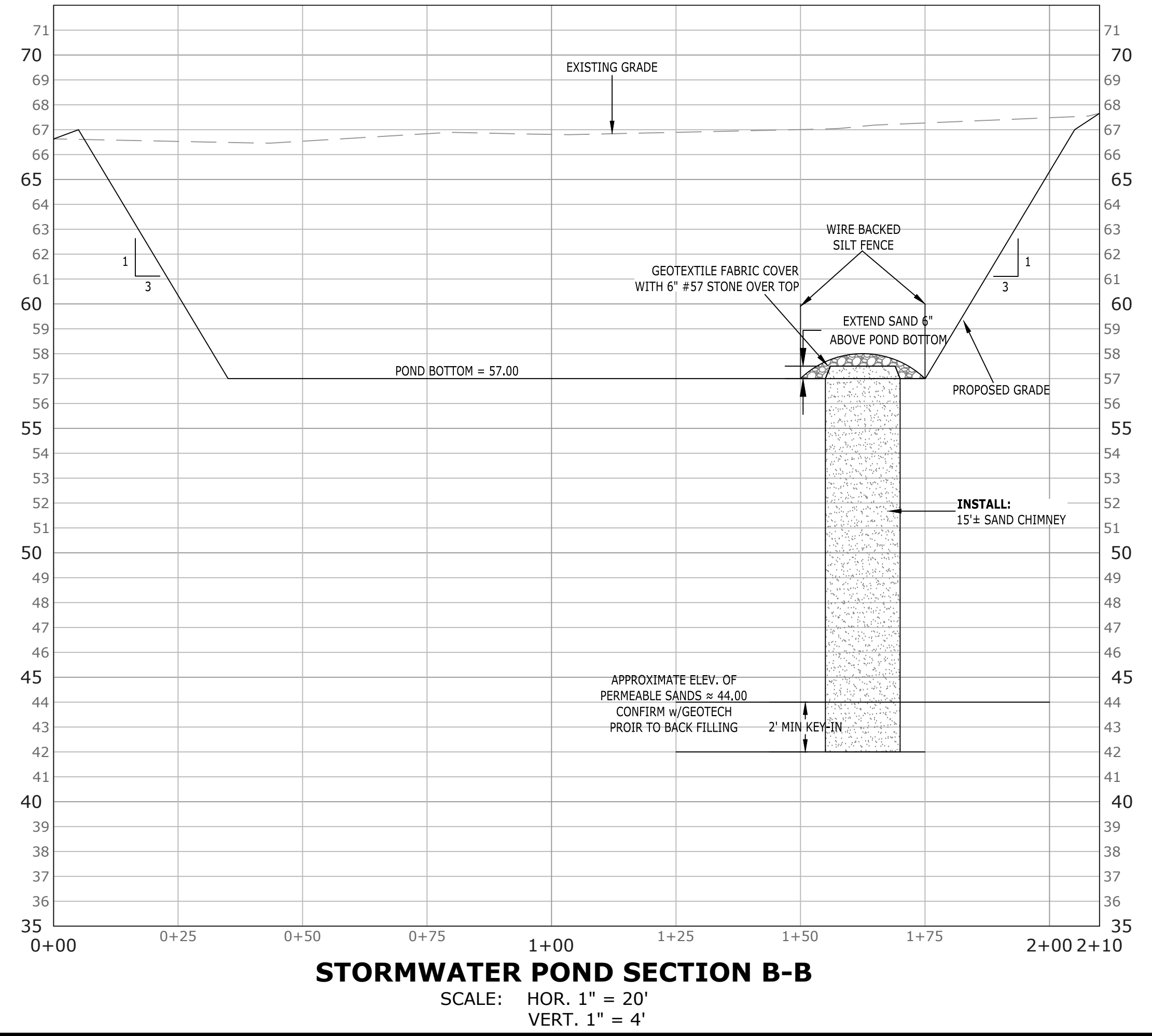
DATE	APPROVAL
6/1/2023	
RELEASED FOR CONSTRUCTION	
DRAWING NUMBER	C-301
PROJECT NUMBER	170001-008
SURVEY NUMBER	ESC L-6069
SHEET	09 OF 18

PHASE	REVIEW	DATE	ORIGINATOR (RP)	ORIGINATOR (QR)	CHECKER (RP)	CHECKER (QR)	VERIFICATION, CHECKER (QR)	DATE
SIGNATURE:			PRODUCTION CHECKING COMPLETE, READY FOR SUBMITTAL REVIEW (RP)	CORRECT (Green Highlighter) Change (Red Pen)	REMARK INCORPORATION (Blue Highlighter)	CORRECT (Blue Highlighter)	CORRECT (Pink Highlighter)	DATE
			CHANGE INCORPORATION (Yellow Highlighter)					DATE



STORMWATER POND NOTES:

1. CHIMNEY SAND SHALL BE WASHED CLEAN, COARSE SAND (LESS THAN 5% FINES PASSING THE No. 200 SIEVE) UNIFORMITY COEFFICIENT SHALL BE BETWEEN 1.5 & 4.0, AND EFFECTIVE GRAIN SIZE SHALL BE 0.2 TO 0.55 MILLIMETERS IN DIAMETER. FILLABLE POROSITY SHALL BE 25%. SAND PERMEABILITY SHALL BE A MINIMUM OF 25 FT/DAY WHEN COMPACTED TO 100% OF STANDARD PROCTOR.
2. CONTRACTOR SHALL SUBMIT SOURCE OF SAND, GEOTECHNICAL CERTIFICATION AND TOTAL QUANTITY OF SAND USED. SUBMITTAL SHALL BE MADE TO OWNER AND ENGINEER.
3. SAND FILTER AREA SHALL BE SURROUNDED BY SILT FENCE WITH WIRE BACKING TO PREVENT FOULING WITH SEDIMENTS. SILT FENCE SHALL BE MAINTAINED FOR THE DURATION OF CONSTRUCTION UNTIL THE SITE IS STABILIZED AND THE REMAINDER OF POND BOTTOM IS SODDED AND SOD IS ESTABLISHED. THE CONTRACTOR WILL BE RESPONSIBLE FOR SAND REPLACEMENT (AT HIS COST) IF SEDIMENTS ARE ALLOWED TO CONTAMINATE THE SAND.
4. AT THE COMPLETION OF CONSTRUCTION OF THE SAND FILTER, THE CONTRACTOR SHALL PROVIDE AN IN-SITU PERMEABILITY TEST AT THREE (3) RANDOM LOCATIONS (AS CHOSEN BY THE OWNER) WITHIN THE POND BOTTOM. THE TEST SHALL BE COMPLETED BY A FLORIDA LICENSED GEOTECHNICAL ENGINEER AND CERTIFIED. RESULTS SHALL BE PROVIDED TO THE OWNER AND ENGINEER OF RECORD.
5. A FLORIDA LICENSED GEOTECHNICAL ENGINEER SHALL INSPECT THE POND BOTTOM EXCAVATION PRIOR TO BACKFILLING WITH SAND TO ENSURE THAT THE CHIMNEY IS APPROPRIATELY KEYED INTO THE UNDERLYING SAND STRATA. A CERTIFIED LETTER FROM THE GEOTECHNICAL ENGINEER CONFIRMING APPROPRIATE KEY-IN IS REQUIRED FOR SAND CHIMNEY APPROVAL.
6. TOP OF SAND CHIMNEY SHALL BE MOUNDED 6" ABOVE THE POND BOTTOM.
7. CONTRACTOR SHALL SOD POND BOTTOM (OUTSIDE THE CHIMNEY AREA) AS WELL AS POND BANKS. SOD SHALL EXTEND TO A MINIMUM OF 5' BEYOND TOP OF POND BANK.
8. CHIMNEY SAND SHALL BE COVERED WITH FDOT D-3 GEOTEXTILE FABRIC (ADS ≥ 70) AND #57 STONE DURING CONSTRUCTION AND UNTIL PROJECT IS ACCEPTED AND POND IS CERTIFIED AS COMPLETE.
9. CONTRACTOR SHALL GRADE POND BOTTOM TOWARDS SAND CHIMNEY TO ENCOURAGE DRAINAGE AS SHOWN.



**MORENO STREET
STORMWATER POND & SIDEWALK IMPROVEMENTS
STORMWATER POND
GEOMETRY AND CROSS SECTIONS**

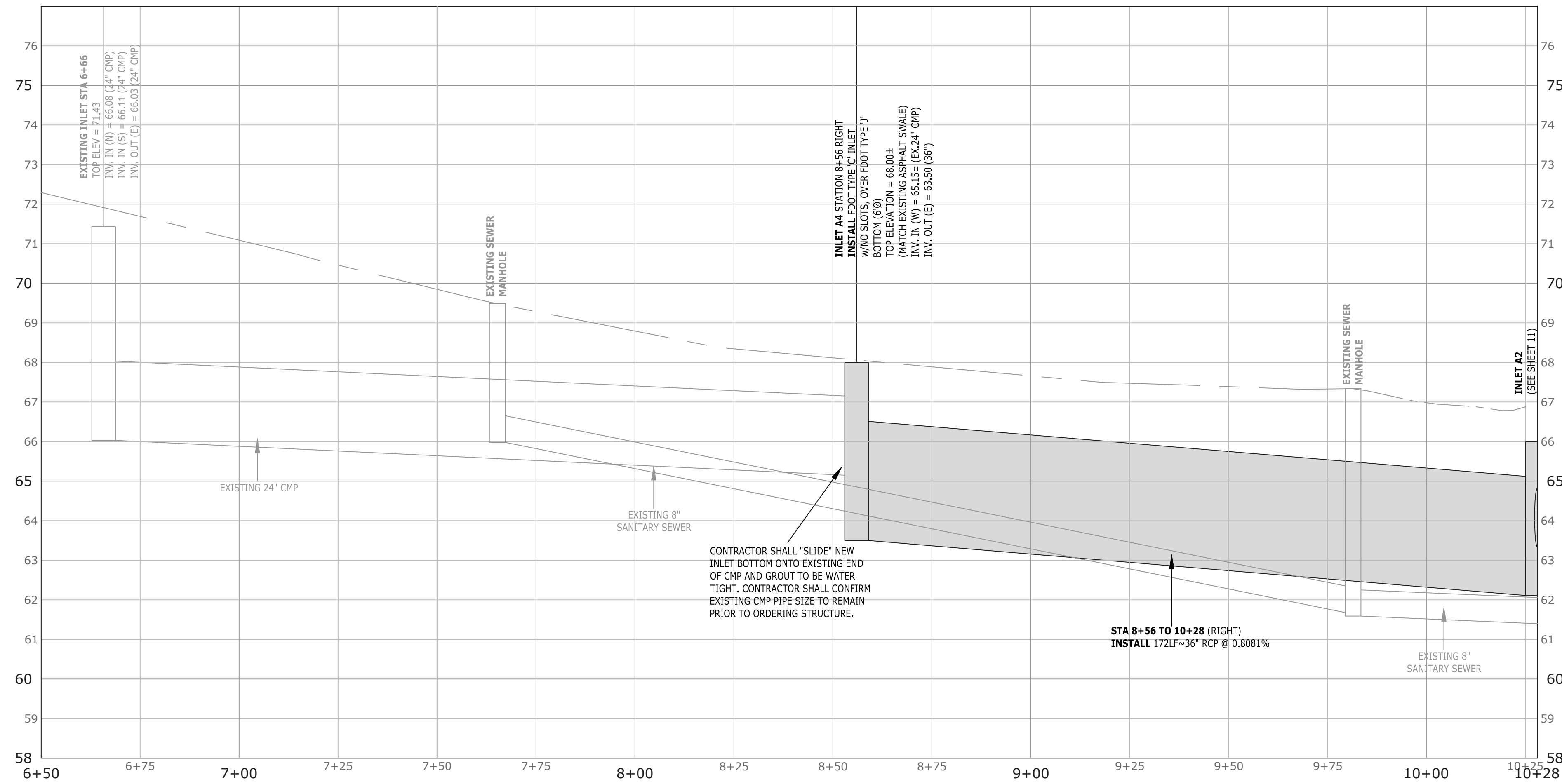
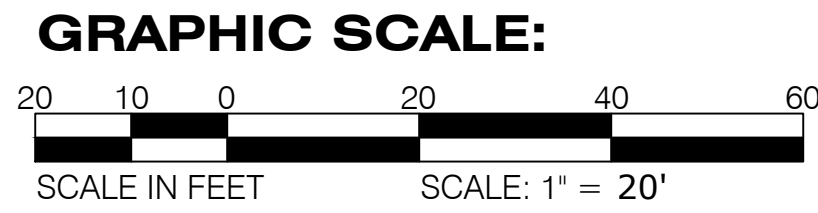
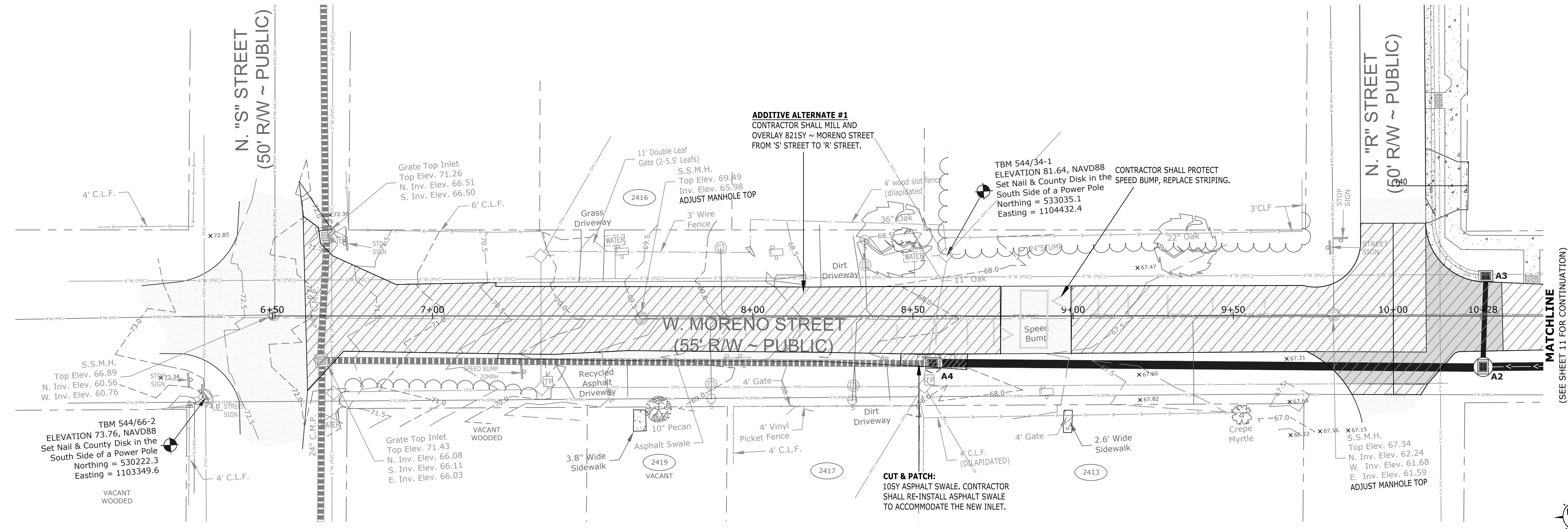
MUNICIPAL ENGINEERING SERVICES, INC.
874 Turkey Buffet Road
Navarre, Florida 32566
P: (850) 894-8732
CERTIFICATE OF AUTHORIZATION: CA-30886

DESIGNED BY:	DIMITRI TROKIAN	CHECKED BY:	WVP/JJ
DRAWN BY:	EMD	DATE:	SEPTEMBER 2022
PROJECT MANAGER:	DIMITRI TROKIAN	DISTRICT:	3
SECTION/TOWNSHIP/RANGE:	ESC DB 44 1P 7-11	SECTION:	17-25-34W
REG. P.E. NO.:	55393	DATE:	
SIGNATURE:		DATE:	

REVISIONS	DATE	APPROVED BY
RELEASED FOR CONSTRUCTION	6/1/2023	

DRAWING NUMBER	C-302
PROJECT NUMBER	170001-008
SURVEY NUMBER	L-6069
SHEET	10 OF 18

PHASE	REVIEW	ORIGINATOR (RP)	DATE	ORIGINATOR (QR)	CORRECT (Green Highlighter)	CHANGE (Red Pen)	DATE	ORIGINATOR (RP)	DATE	ORIGINATOR (QR)	CORRECT (Blue Highlighter)	DATE
SIGNATURE:		PRODUCTION CHECKING COMPLETE, READY FOR SUBMITTAL REVIEW (RP)		CHECKER (RP)	(Red Pen X-Out to Disagree or Remark)			CHECKER (QR)	(Blue Highlighter)	REMARK INCORPORATION	(Blue Highlighter)	DATE
		CHANGE INCORPORATION	(Yellow Highlighter)					ORIGINATOR VERIFICATION	Correct (Pink Highlighter)			DATE



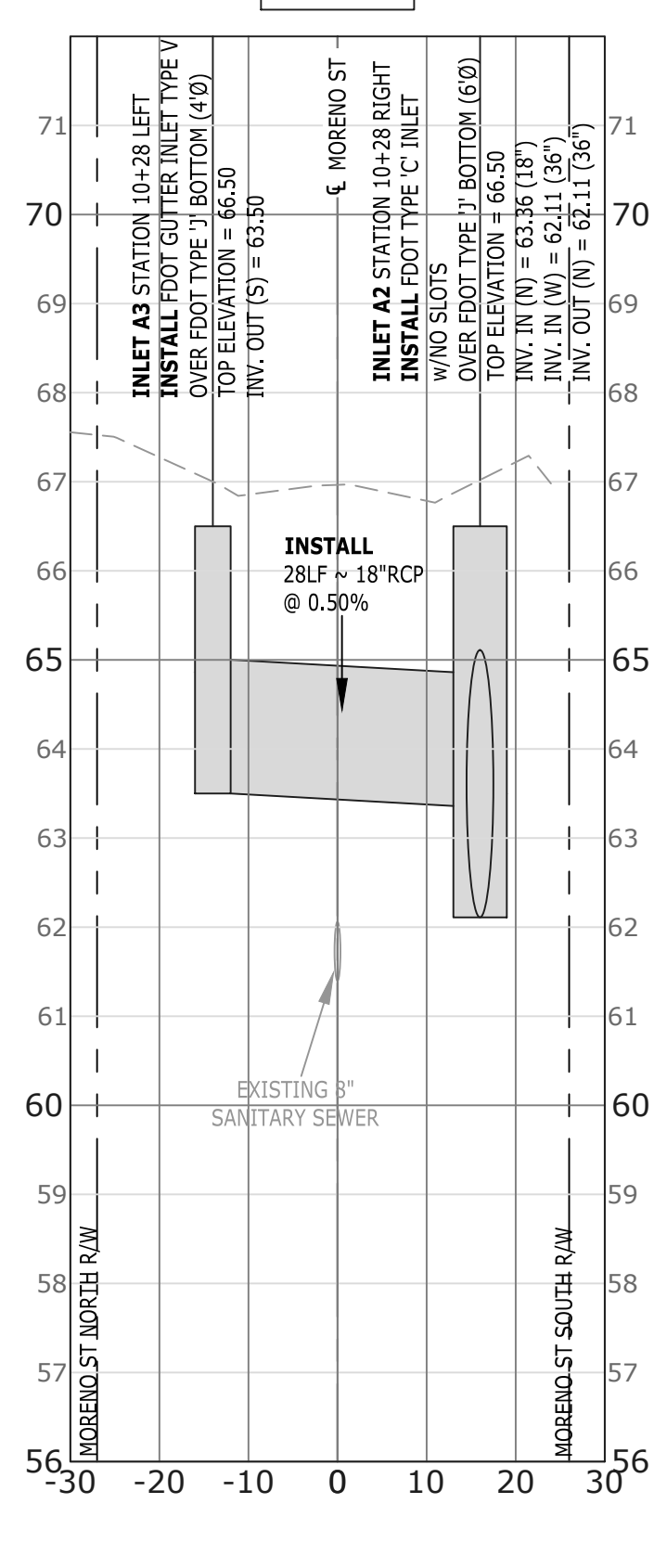
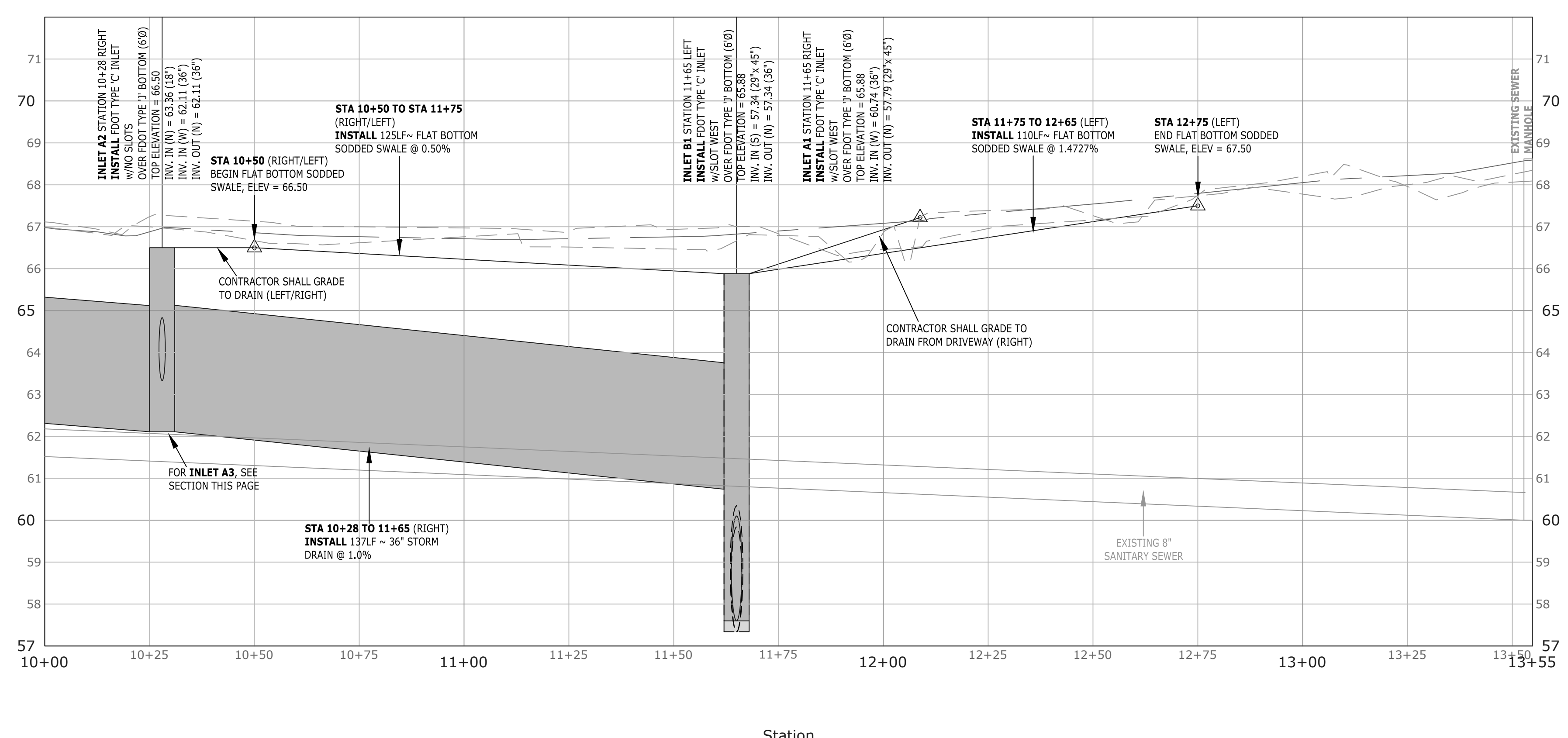
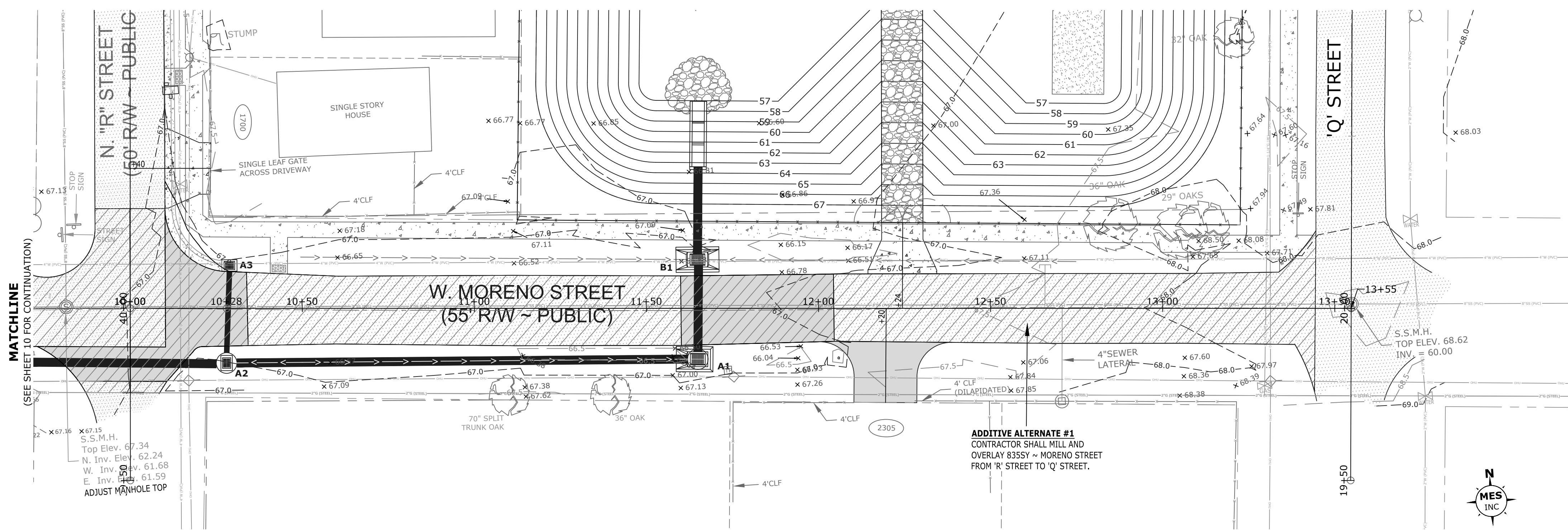
MORENO STREET PROFILE
 SCALE: HOR. 1" = 20'
 VERT. 1" = 2'

**MORENO STREET
 STORMWATER POND & SIDEWALK IMPROVEMENTS
 MORENO STREET - ('S' STREET TO 'R' STREET)
 PLAN AND PROFILE**



<p>EXCELLENCE IN ENGINEERING SERVICE 8974 Turkey Bluff Road Navarre, Florida 32566 P: (850) 889-8702 CERTIFICATE OF AUTHORIZATION: CE-30886</p>		<p>REG. FEA. NO. 55393 DATE: 12-28-88</p>						
<p>DESIGNED BY: DIEL PROJECT MANAGER: DMITRIY TROKHIN DATE: SEPTEMBER 2022 ESC: CB-44, PP-21</p>	<p>CHECKED BY: WVPJ DISTRICT: 3 SECTION/TOWNSHIP/RANGE: 12-28-88</p>	<p>SIGNATURE: _____ DATE: _____</p>						
<p>REVISIONS</p> <table border="1"> <tr> <th>NUMBER</th> <th>DATE</th> <th>APPROVED BY</th> </tr> <tr> <td>1</td> <td>6/1/2023</td> <td></td> </tr> </table>	NUMBER	DATE	APPROVED BY	1	6/1/2023		<p>RELEASED FOR CONSTRUCTION</p>	<p>DRAWING NUMBER: C-401 PROJECT NUMBER: 170001-008 SURVEY NUMBER: L-6069</p>
NUMBER	DATE	APPROVED BY						
1	6/1/2023							
<p>SHEET 11 OF 18</p>								

PHASE	REVIEW	ORIGINATOR (RP)	DATE	ORIGINATOR (QR)	CORRECT (Green Highlighter)	CHANGE (Red Pen)	DATE	ORIGINATOR (RP)	DATE	ORIGINATOR (QR)	CORRECT (Blue Highlighter)	CHANGE (Blue Highlighter)	DATE
SIGNATURE:		PRODUCTION CHECKING COMPLETE, READY FOR SUBMITTAL REVIEW (RP)		CHECKER (RP)	(Red Pen X-Out to Diagram or Remark)			CHECKER (RP)		VERIFICATION, CHECKER (QR)	(Blue Highlighter)		
				CHANGE INCORPORATION (Yellow Highlighter)				ORIGINATOR VERIFICATION		REMARK INCORPORATION (Blue Highlighter)			



MORENO STREET STORMWATER POND & SIDEWALK IMPROVEMENTS
MORENO STREET - ('R' STREET TO 'Q' STREET)
PLAN AND PROFILE

ESCAMBA COUNTY FLORIDA

EXCELLENCE IN ENGINEERING SERVICE
8974 Turkey Buft Road
Neville, Florida 32566
P: (850) 369-5732
CERTIFICATE OF AUTHORIZATION: CA-30886

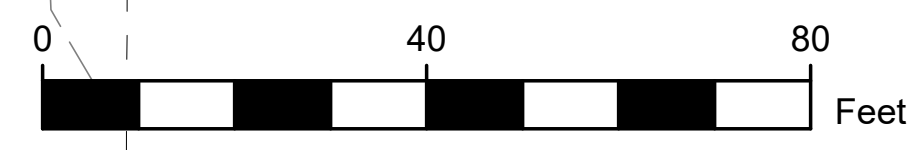
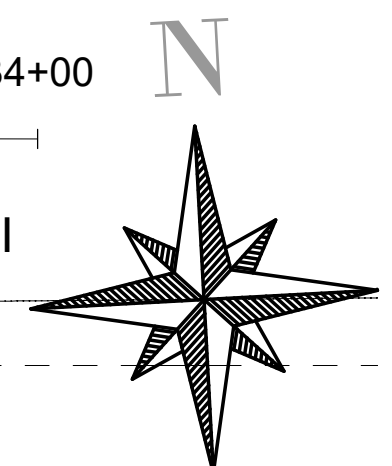
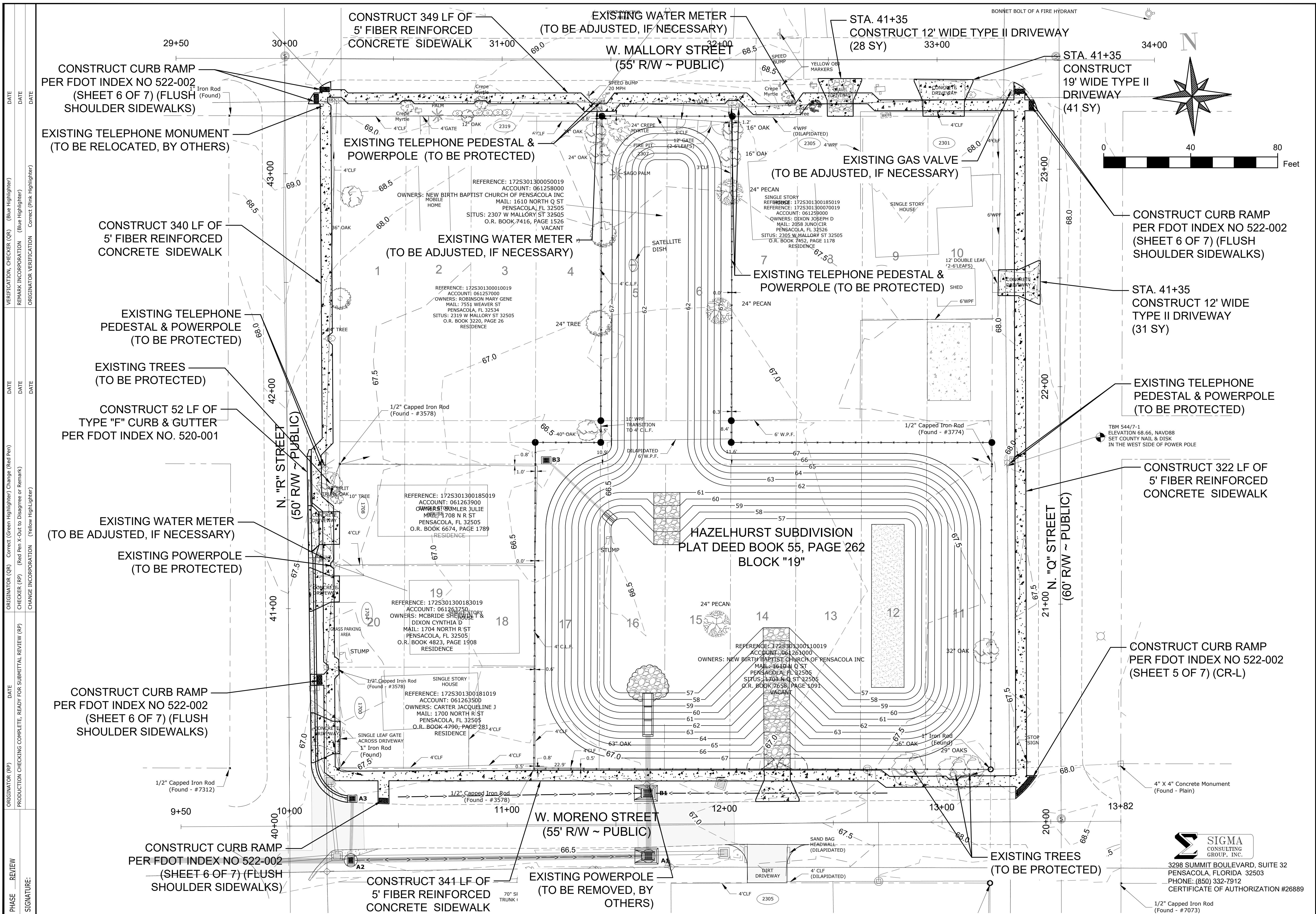
MUNICIPAL ENGINEERING SERVICES, INC.

DESIGNED BY:	WVP/JJ	CHECKED BY:	55393
DRAWN BY:	DIMITRI TROKIN	DISTRICT:	
DATE:	SEPTEMBER 2022	SECTION/TOWNSHIP/RANGE:	
SCALE:	ESC DB-44, P.2, 1:25=34'	DATE PLOTTED:	

REVISIONS	DATE	APPROVED BY
RELEASED FOR CONSTRUCTION	6/1/2023	

DRAWING NUMBER	C-402
PROJECT NUMBER	170001-008
SURVEY NUMBER	L-6069

SHEET **12** OF **18**



**MORENO STREET
STORMWATER POND & SIDEWALK IMPROVEMENTS
SIDEWALK PLAN SHEET**



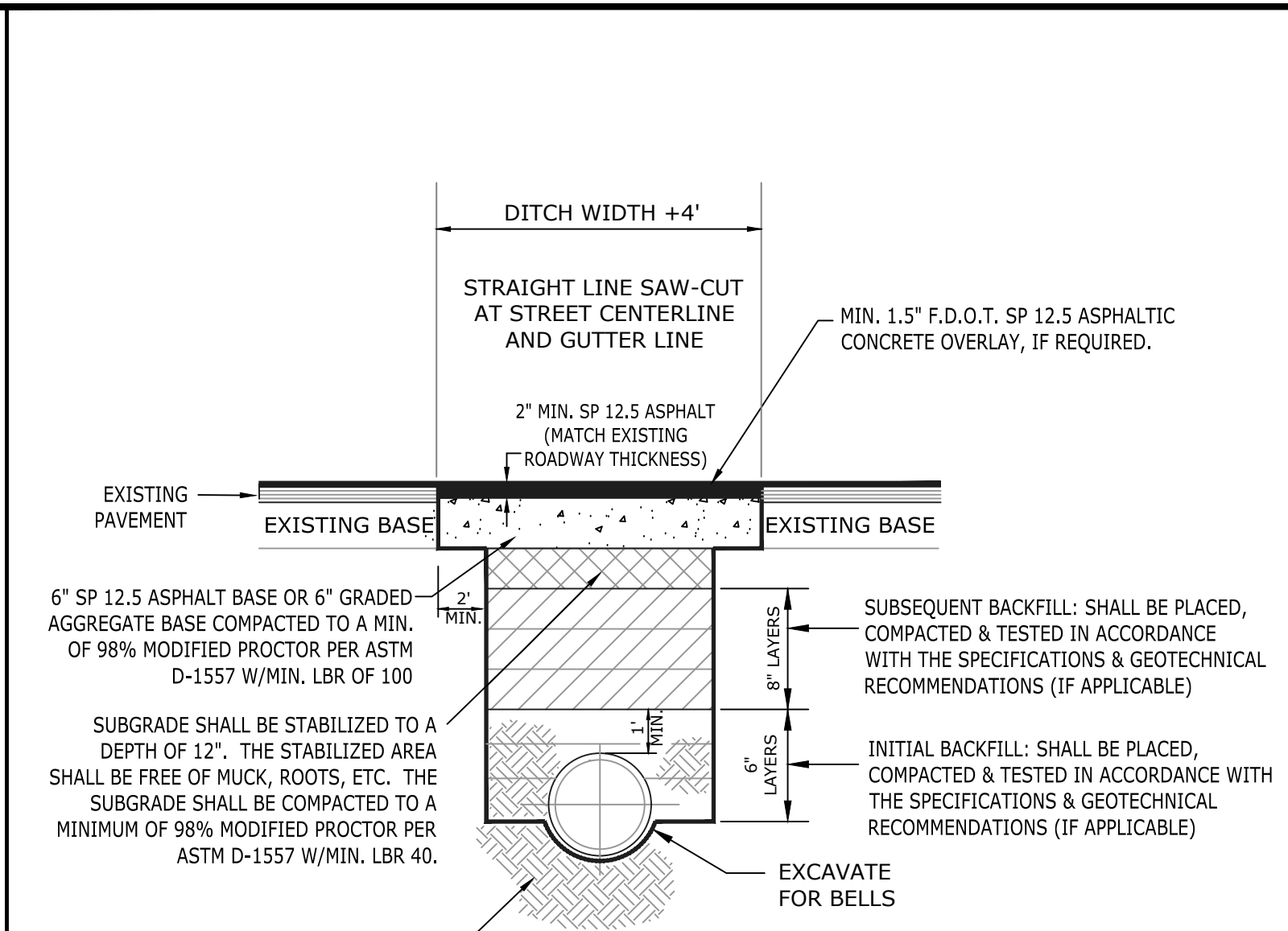
EXCELLENCE IN ENGINEERING SERVICE	DATE:
MUNICIPAL ENGINEERING SERVICES, INC.	5/5/2023
PROJECT NO. 17-25-30W	SECTION/TOWNSHIP/RANGE
SECTION: 3	TOWNSHIP: 30W
RANGE: 17-25-30W	DATE:
PROJECT MANAGER: MARK SOLTERO	DATE:
DRAWN BY: WVP II	DATE:
CHECKED BY: WVP II	DATE:
DATE: SEPTEMBER 2022	DATE:
FIELDBOOK PAGES: 17-25-30W	DATE:
ESC FB 54, PP 7-11	DATE:

DATE:	6/1/2023
RELEASED FOR CONSTRUCTION	
DRAWING NUMBER	C-501
PROJECT NUMBER	170001-008
SURVEY NUMBER	ESC L-6069
SHEET	13 OF 18

SIGMA CONSULTING GROUP, INC.
3298 SUMMIT BOULEVARD, SUITE 32
PENSACOLA, FLORIDA 32503
PHONE: (850) 332-7912
CERTIFICATE OF AUTHORIZATION #26889

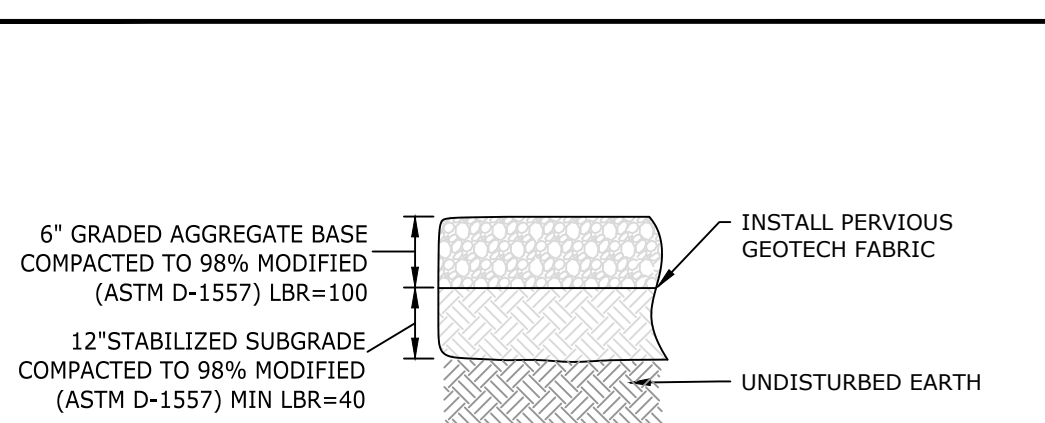
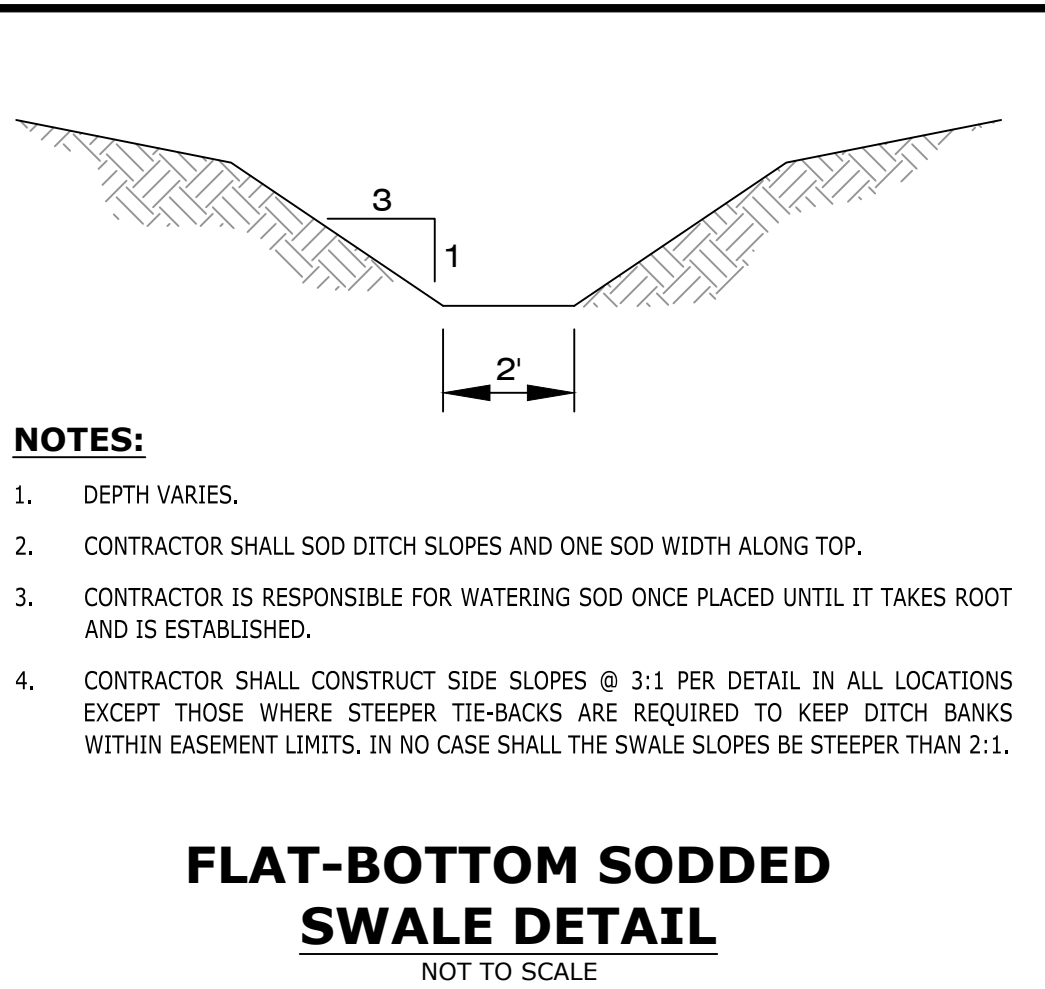
PHASE REVIEW	DATE	ORIGINATOR (RP)	PRODUCTION CHECKING COMPLETE, READY FOR SUBMITTAL REVIEW (RP)
SIGNATURE:			
ORIGINATOR (RP)	DATE	CHECKER (RP)	CHANGE INCORPORATION (Yellow Highlighter)
VERIFICATION, CHECKER (QR)	DATE	REMARK INCORPORATION (Blue Highlighter)	ORIGINATOR VERIFICATION (Pink Highlighter)
	DATE		

PHASE	REVISION	DATE	ORIGINATOR (QR)	CHECKER (RP)	DATE	VERIFICATION, CHECKER (QR)	DATE
SIGNATURE:	PRODUCTION CHECKING COMPLETE, READY FOR SUBMITTAL REVIEW (RP)		CHANGE INCORPORATION (Yellow Highlighter)			REMARK INCORPORATION (Blue Highlighter)	



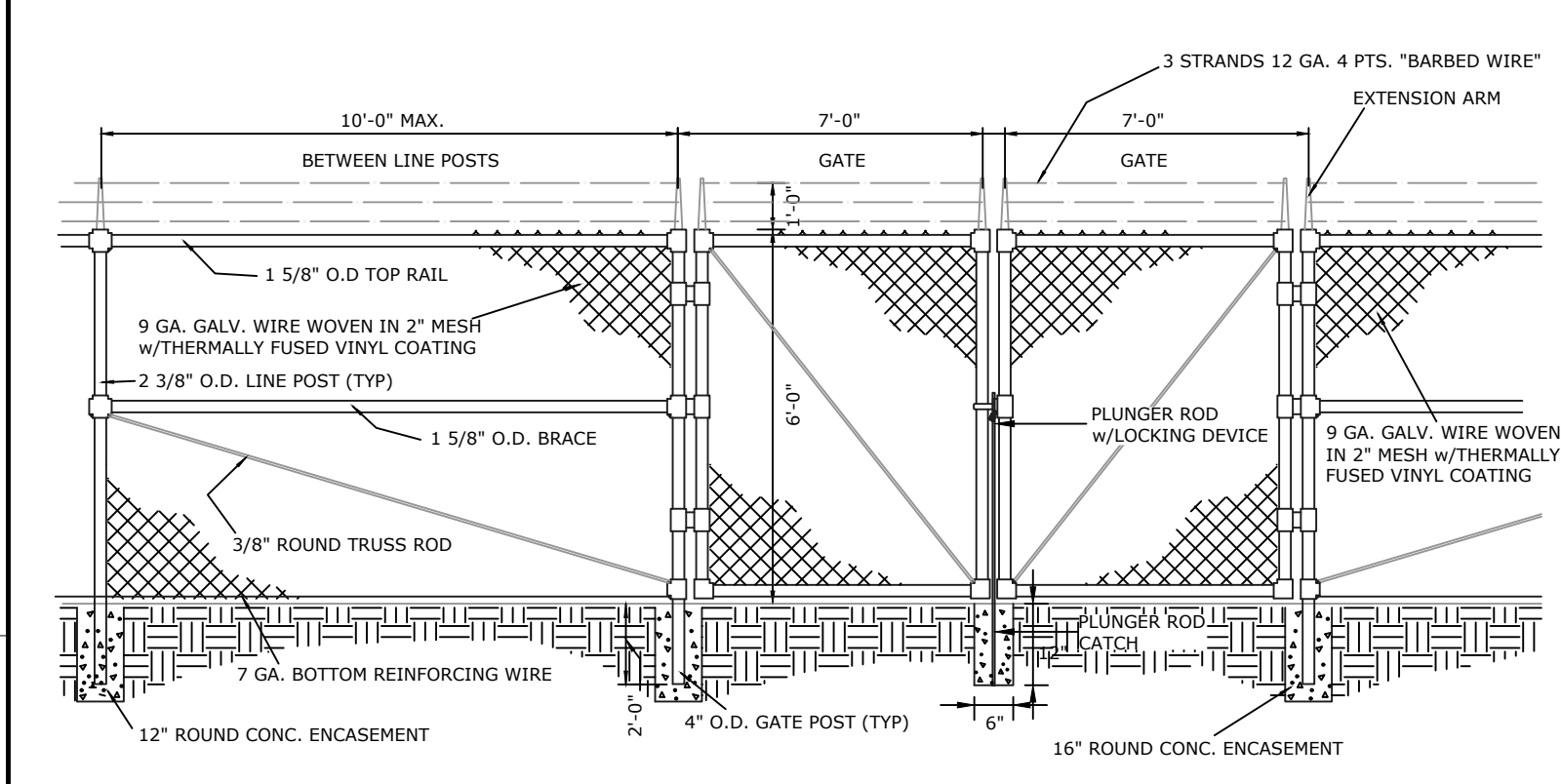
- NOTES:**
- EACH LAYER OF BACKFILL UNDER ROADWAYS SHALL BE MECHANICALLY TAMPED.
 - DENSITY TESTS WILL BE REQUIRED ON EACH LAYER AT EACH ROAD PATCH.
 - ALL ASPHALT REMOVED SHALL BE STRAIGHT LINE SAW-CUT.
 - ASPHALT PAVING & BASE MATERIALS SHALL MEET THE REQUIREMENTS OF F.D.O.T. SPECIFICATIONS.
 - THE CONTRACTOR SHALL PATCH THE OPEN CUT AND PROVIDE A SMOOTH CONSISTENT ASPHALT PATCH.
 - CONTRACTOR SHALL COMPLY WITH F.D.O.T. INDEX #307 REQUIREMENTS FOR REPAIRS WITHIN F.D.O.T. RIGHT OF WAY.
 - CONTRACTOR WILL BE REQUIRED TO REPAIR/REPLACE ANY TRAFFIC SIGNAL SENSORS THAT ARE DAMAGED OR DESTROYED AS PART OF THE ROADWAY OPEN CUTS.
 - CONTRACTOR SHALL COMPLETE ASPHALT PATCHING BEFORE MILLING AND OVERLAYING THE ROADWAY.
 - CONTRACTOR SHALL MILL A MINIMUM OF 1", IF REQUIRED.

ASPHALT ROAD REPAIR DETAIL
NOT TO SCALE



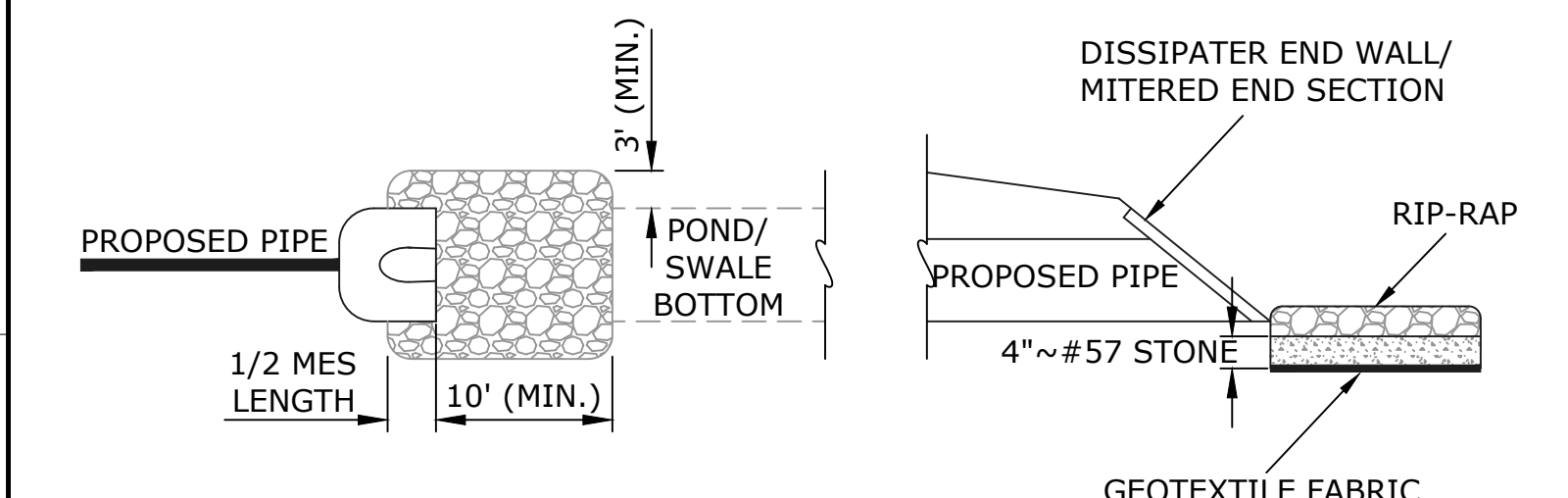
- NOTES:**
- ALL DEPTHS ARE COMPACTED DEPTHS.
 - FILL FOR POND ACCESS DRIVE SHALL BE MECHANICALLY COMPACTED TO 95% MODIFIED PROCTOR DENSITY IN MAXIMUM 6-INCH LIFTS WITH AN LBR=40.
 - SUBGRADE SHALL BE COMPACTED TO 98% MODIFIED PROCTOR DENSITY IN MAXIMUM 6" LIFTS WITH AN LBR=40.

GRAVEL DRIVEWAY DETAIL
N.T.S.

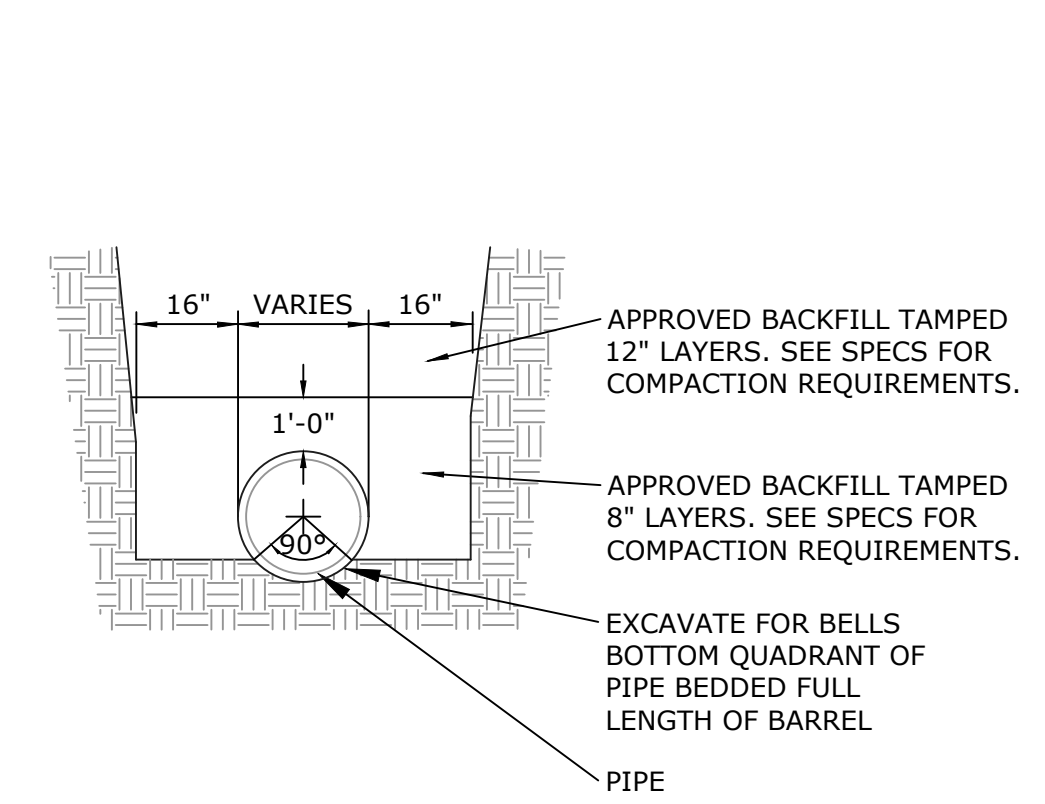


TYPICAL CHAIN LINK FENCE DETAIL
NOT TO SCALE

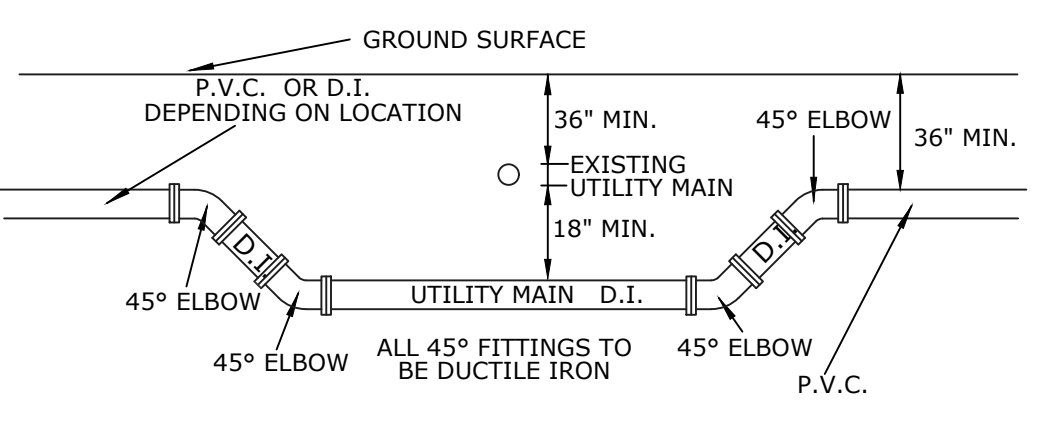
NOTE: OWNER SHALL SELECT FENCE COLOR.



RIP-RAP INSTALLATION DETAIL
NOT TO SCALE



PIPE BEDDING DETAIL
NOT TO SCALE



UTILITY CONFLICT DETAIL
NOT TO SCALE

DIMENSION TABLE

Pipe Dia.	Area (SF)	Feet - Inches												Concrete (CY)	Reinf. Steel (lb)	Sand-Cement Riprap (Nom.) (CY)			
		W	Ht	L	a	b	c	d	e	f	g	m	n				p	s	t
30"	4.91	9-0	6-3	10-8	4-7	6-1	3-4	1-4	1-2	2-6	3-0	1-11	6	6 1/2	7	3	6.72	736	10.6
36"	7.07	10-5	7-3	12-4	5-3	7-1	3-10	1-7	1-3	3-0	3-6	2-3	7	7 1/2	8	3	10.34	1,072	13.6
42"	9.62	11-10	8-0	14-0	6-0	8-0	4-5	1-9	1-6	3-0	3-11	2-6	8	8 1/2	9	4	14.82	1,429	17.5
48"	12.57	13-3	9-0	15-8	6-9	8-11	4-11	2-0	1-7	3-0	4-5	2-10	9	9 1/2	10	4	20.36	2,000	22.1
54"	15.90	14-8	9-9	17-4	7-4	10-0	5-5	2-2	1-10	3-0	4-11	3-0	10	10 1/2	10	4	27.19	2,659	27.2
60"	19.63	16-1	10-9	19-0	8-0	11-0	5-11	2-5	1-11	3-0	5-1	3-4	11	11 1/2	11	6	34.49	3,552	32.5
66"	23.76	17-3	11-6	20-6	8-8	11-10	6-5	2-7	2-1	3-0	5-9	3-7	12	12 1/2	12	6	42.82	4,472	38.3
72"	28.27	18-6	12-3	22-0	9-3	12-9	6-11	2-9	2-3	3-0	6-2	3-9	12	12 1/2	12	6	50.68	5,426	44.5

DIMENSIONAL DETAILS

INDEX SHEET: 430-012 2 of 3

NOTES:

- All bar dimensions are measured out to out.
- All Bars are size #4 unless otherwise noted.
- Install reinforcing steel with a minimum of 2" cover.
- Bars B6 and B7 (N.S. and F.S.) equivalent in size to B5 (cut and bend as required).
- Bars V₁, V₂, V₃, V₄, V₅, H₁, H₂, H₃, H₄, H₅, and H₆ are straight bars.

LEGEND:

H = Horizontal Bars
V = Vertical Bars
B = Bent Bars
D = Dowels or Diagonal Bars

BENT BARS TABLE

Pipe Size	B ₁ Spacing (No.)	B ₂ Spacing (No.)	B ₃ Spacing (No.)	B ₄ Spacing (No.)	B ₅ Spacing (No.)	B ₆ Spacing (No.)	B ₇ Spacing (No.)					
30"	4	1-6	5	0-11	4	0-9 1/2	5	0-5 1/2	4	0-9 1/2		
36"	5	1-0	4	1-6	5	0-10	5	1-0	5	0-5	5	1-0
42"	5	0-11	4	1-6	6	1-1	5	0-11	6	0-6 1/2	5	0-11
48"	5	0-9 1/2	4	1-0	6	1-0	5	0-9 1/2	6	0-6	5	0-9 1/2
54"	5	0-8 1/2	4	0-10	7	1-1	5	0-8 1/2	7	0-6 1/2	5	0-8 1/2
60"	6	0-10	5	1-1	7	1-0	6	0-10	7	0-6	6	0-10
66"	6	0-8 1/2	5	0-11 1/2	7	0-11	6	0-8 1/2	7	0-5 1/2	6	0-8 1/2
72"	6	0-7 1/2	5	0-10	7	0-10	6	0-7 1/2	7	0-5	6	0-7 1/2

REINFORCING DETAILS AND BENDING DIAGRAM

INDEX SHEET: 430-012 3 of 3

MORENO STREET STORMWATER POND & SIDEWALK IMPROVEMENTS PROJECT DETAILS

EXCELLENCE IN ENGINEERING SERVICE
8874 Turkey Bluff Road
Neville, Florida 32566
P: (850) 369-5732
CERTIFICATE OF AUTHORIZATION: CA-30886

MUNICIPAL ENGINEERING SERVICES INC.

DESIGNED BY: WVP/JJ
CHECKED BY: WVP/JJ
DISTRICT: 3
SECTION/TOWNSHIP/RANGE: 12-25-34W

DRAWN BY: EMD
DATE: SEPTEMBER 2022
ESC-DB-44-1P-7-11

DATE: 6/12/2023

RELEASED FOR CONSTRUCTION

DRAWING NUMBER: C-602
PROJECT NUMBER: 170001-008
SURVEY NUMBER: L-6069

SHEET 15 OF 18

DATE DATE DATE DATE
 VERIFICATION, CHECKER (QR) (Blue Highlighter)
 REMARK INCORPORATION (Blue Highlighter)
 ORIGINATOR VERIFICATION Correct (Pink Highlighter)

DATE DATE DATE DATE
 ORIGINATOR (QR) Correct (Green Highlighter) Change (Red Pen)
 CHECKER (RP) (Red Pen X-Out to Diagram or Remark)
 CHANGE INCORPORATION (Yellow Highlighter)
 DATE DATE DATE DATE
 ORIGINATOR (RP) PRODUCTION CHECKING COMPLETE, READY FOR SUBMITTAL REVIEW (RP)
 PHASE REVIEW
 SIGNATURE:

ALTERNATE A NOTES:
 1. Rotate #4 Bars as required to maintain cover.
 2. Construct the top or riser of the structure according to the top slab to the "Special Top Slab" details, when the inside diameter of a round structure is not more than 1'-0" larger than the opening in the riser or top slab.
 3. Alternate A slab reinforcing not applicable for Type A, B, C, D, E, F Ditch Bottom Inlets or Type S, & V Cutter Inlets. See Indexes 425-040, 425-041, 425-050, 425-051, and 425-052.

TYPE A - ROUND RISER OPENING
TYPE B - SQUARE RISER OPENING
TYPE J BOTTOM - ALTERNATE A
TYPE J BOTTOM - ALTERNATE B

DIMENSIONAL AND REINFORCING DETAILS

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TABLE 5 - SLAB DESIGNS - SQUARE AND RECTANGULAR STRUCTURES (ALL SLABS 8" THICK EXCEPT AS NOTED - REINFORCING PARALLEL TO SHORT WAY AND LONG WAY)

SHORT-WAY	LONG-WAY	SHORT-WAY	LONG-WAY	SHORT-WAY	LONG-WAY
SLAB DEPTH	SCHEDULE (Bars A)	SLAB DEPTH	SCHEDULE (Bars B)	SLAB DEPTH	SCHEDULE (Bars B)
$\geq 0.5' < 8'$	B10	$\geq 0.5' < 24'$	B10	$\geq 0.5' < 13'$	C6.5
$8' < 13'$	D7	$24' - 40'$	B5.5	$13' < 23'$	D7
$13' < 31'$	D7			$23' - 40'$	E5
$31' - 40'$	D7				E5

TABLE 6 - SLAB DESIGNS ROUND STRUCTURES

SLAB DEPTH	SLAB THICKNESS	REINFORCING (2-WAY) SCHEDULE
$2' - 15'$	6" Precast	C6.5
$0.5' < 30'$	6"	A6
$30' - 40'$	6"	B5.5

SLAB AND WALL DESIGN TABLE NOTES
 1. Size is the inside dimension(s) of a structure.
 2. Slab reinforcement is appropriate for top, intermediate, and bottom slabs.
 3. Bottom Slabs for precast 3'-6" x 3'-6" rectangular structures at 19" depth or less, may be 6" thick.
 4. Slab depth is measured from finished grade to top of slab.
 5. Reinforcing schedules with larger areas of steel may be substituted for schedules with smaller bar or wire spacing, except that Schedule B10 may not be substituted for Schedule A6. See Index 425-001 for allowable bar spacing adjustments when larger areas of reinforcing are substituted.

TABLES 5 AND 6

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TABLE 1 - ALTERNATE A - STRUCTURES

TYPE	CAST-IN-PLACE ITEMS				PRECAST ITEMS			
	RISER	RISE	RISE	RISE	RISER	RISE	RISER	RISE
P	3'-6"	8'	8'	8'	6"	8'	6"	8'
J	3'-6"	8'	8'	8'	6"	8'	6"	8'

TABLE 2 - ALTERNATE B SQUARE AND RECTANGULAR STRUCTURES

TYPE	WALL LENGTH (FT)	MAX. DEPTH (FT)	WALL THICKNESS (I ₁ , I ₂)
P	$\geq 3'-6"$	40'	6" Riser, 6" Bottom

TABLE 3 - REINFORCING SCHEDULE

SCHEDULE	GRADE 60 AREA (in ² /ft)	GR 60 BARS (in)	WWR EQUIV. AREA (in ² /ft)	70 KSI (in)
A12	0.20	12	8	8
A6	0.20	6	5	5

TABLE 4 - WALL DESIGNS - RECTANGULAR STRUCTURES

WALL DEPTH	VERTICAL REINFORCING		HORIZONTAL REINFORCING		WALL THICKNESS
	SCHEDULE	WALL DEPTH	SCHEDULE	WALL DEPTH	
$\geq 1.7' - 40'$	A12	$\geq 1.7' < 10'$	B10	6"/8"	6"

TABLES 1, 2, 3, AND 4

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TYPE II DIPPED DRIVEWAY WITHOUT CROSS PIPE (CULVERT)

SECTION "C-C"

TYPE III-A CROSS PIPE (CULVERT) DRIVEWAY

SECTION "B-B"

NOTES:
 TYPE IIIB DRIVEWAY W/ CONCRETE OR SANDBAG HEADWALLS MAY BE USED IN SPECIAL CASES AS APPROVED BY THE PUBLIC WORKS / DEVELOPMENT REVIEW DEPARTMENT.
 COVER REQUIREMENTS -
 1. FOR PIPES LARGER THAN 24" DIAMETER REFER TO FDOT INDEX 205 UNLESS OTHERWISE APPROVED.
 2. FOR 18" TO 24" DIAMETER RCP AND HDPE (A2000) RIGID PAVEMENT 6" - FLEXIBLE PAVEMENT 6" - UNPAVED 9"
 3. FOR 18" TO 24" DIAMETER CMP RIGID PAVEMENT 1" - FLEXIBLE PAVEMENT 1" - UNPAVED 1"
 4. APPROPRIATE END TREATMENTS SHALL BE INSTALLED FOR THE TYPE OF PIPE USED. (SEE FDOT STANDARD INDEX 273)

TABLE 4 NOTES:
 1. Wall depth is measured to the top of the bottom slab for boxes and to the top of the intermediate slab for risers.
 2. Wall height is the distance between top of lower slab to bottom of upper slab. Maximum wall height is 12' for wall lengths exceeding 9' or 10' for wall lengths exceeding 12'.
 3. Wall lengths exceeding 6'-0" require two layers of reinforcing (See Table 4) with 2" of cover from the horizontal bars to the inside and outside faces for each layer.
 4. Wall lengths exceeding the dimensions or depths shown in Table 4, or 12'-0" diameter require a special design.
 5. Wall thickness and reinforcing for rectangular structures is based on the longer wall length.

TABLES 1, 2, 3, AND 4

DATE	APPROVED BY
6/1/2023	

RELEASED FOR CONSTRUCTION

NUMBER	REVISIONS
1	

DATE 6/1/2023

DESIGNED BY: WWP/JJ
 CHECKED BY: 55393
 PROJECT MANAGER: DMITRII TROKHIN
 DISTRICT: 3
 SECTION/TOWNSHIP/RANGE: ESC 14, 11, 12-25-34W

DRAWN BY: BMD
 DATE: SEPTEMBER 2022
 ESC 14, 11, 12-25-34W

DRAWING NUMBER: C-603
 PROJECT NUMBER: 170001-008
 SURVEY NUMBER: L-6069

SHEET 16 OF 18

MORENO STREET
STORMWATER POND & SIDEWALK IMPROVEMENTS
PROJECT DETAILS

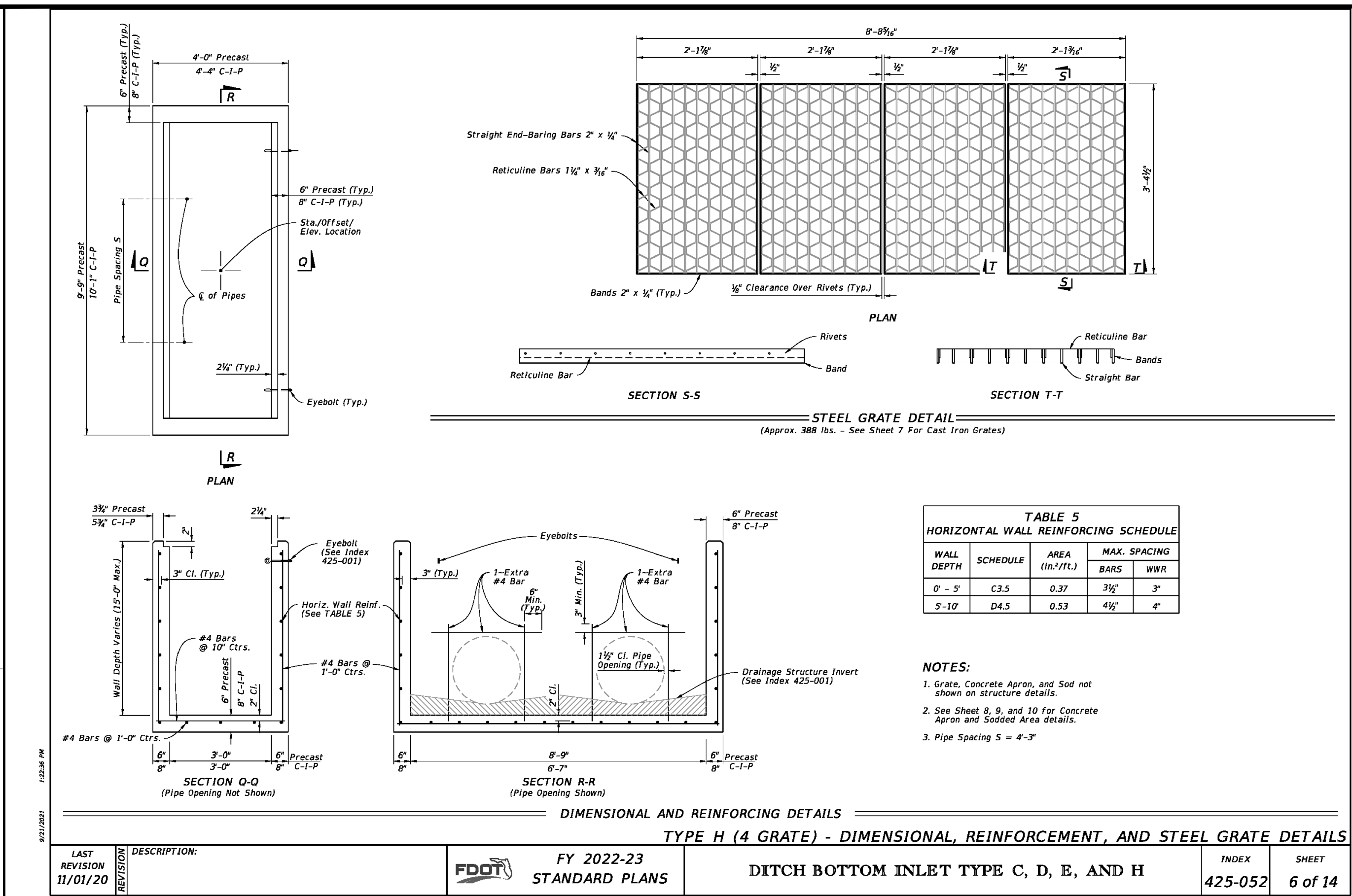
ESCAMBIA COUNTY, FLORIDA
 EXCELLENCE IN ENGINEERING SERVICE
 8874 Turkey Bull Road
 Navarre, Florida 32566
 P: (850) 885-8732
 CERTIFICATE OF AUTHORIZATION: CA-30886

DATE: 6/1/2023	DESIGNED BY: WWP/JJ	CHECKED BY: 55393	DATE: 9/1/2022
PROJECT MANAGER: DMITRII TROKHIN	DISTRICT: 3	SECTION/TOWNSHIP/RANGE: ESC 14, 11, 12-25-34W	

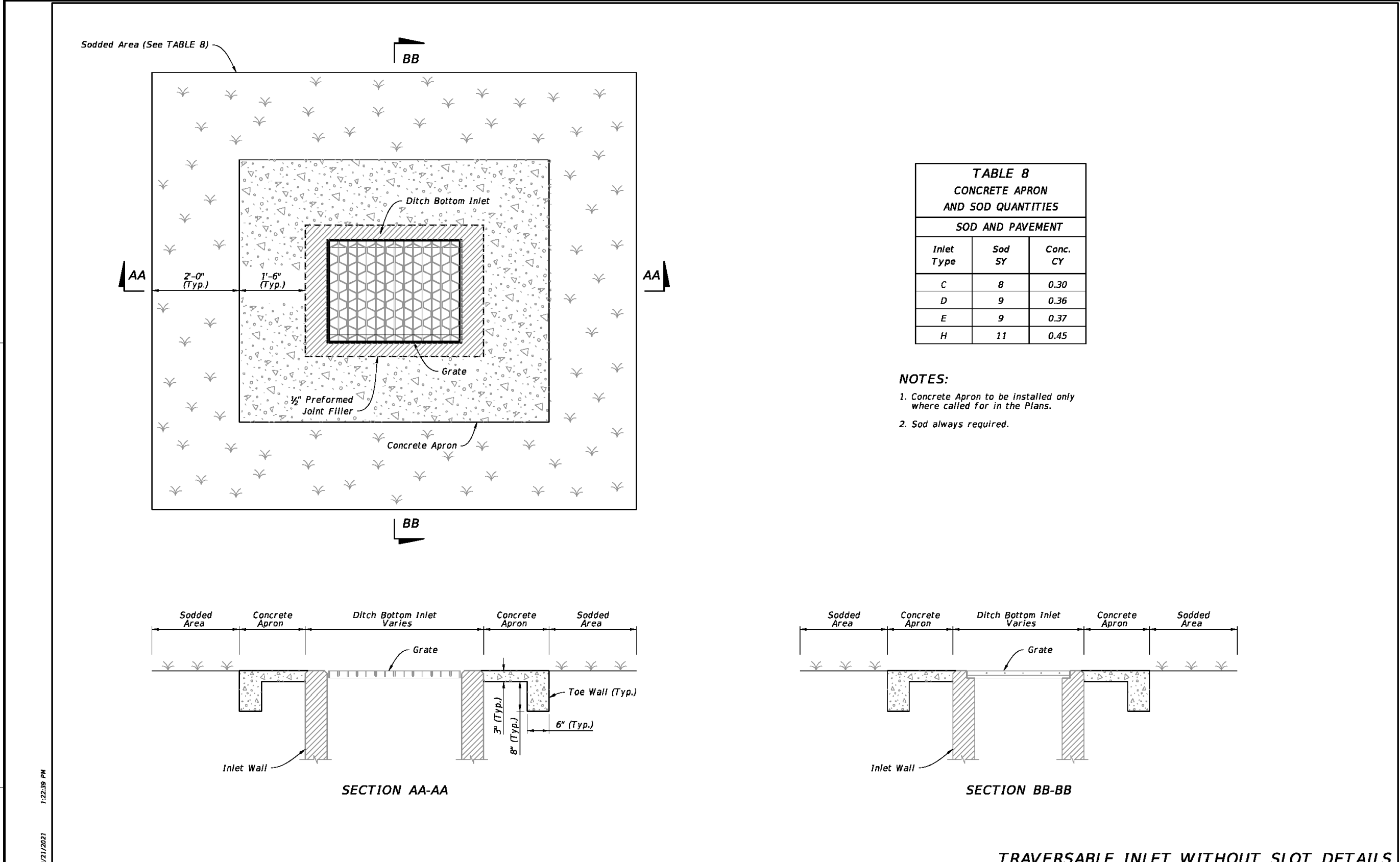
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 PROJECT NUMBER: **170001-008**
 SURVEY NUMBER: **L-6069**

SHEET 16 OF 18

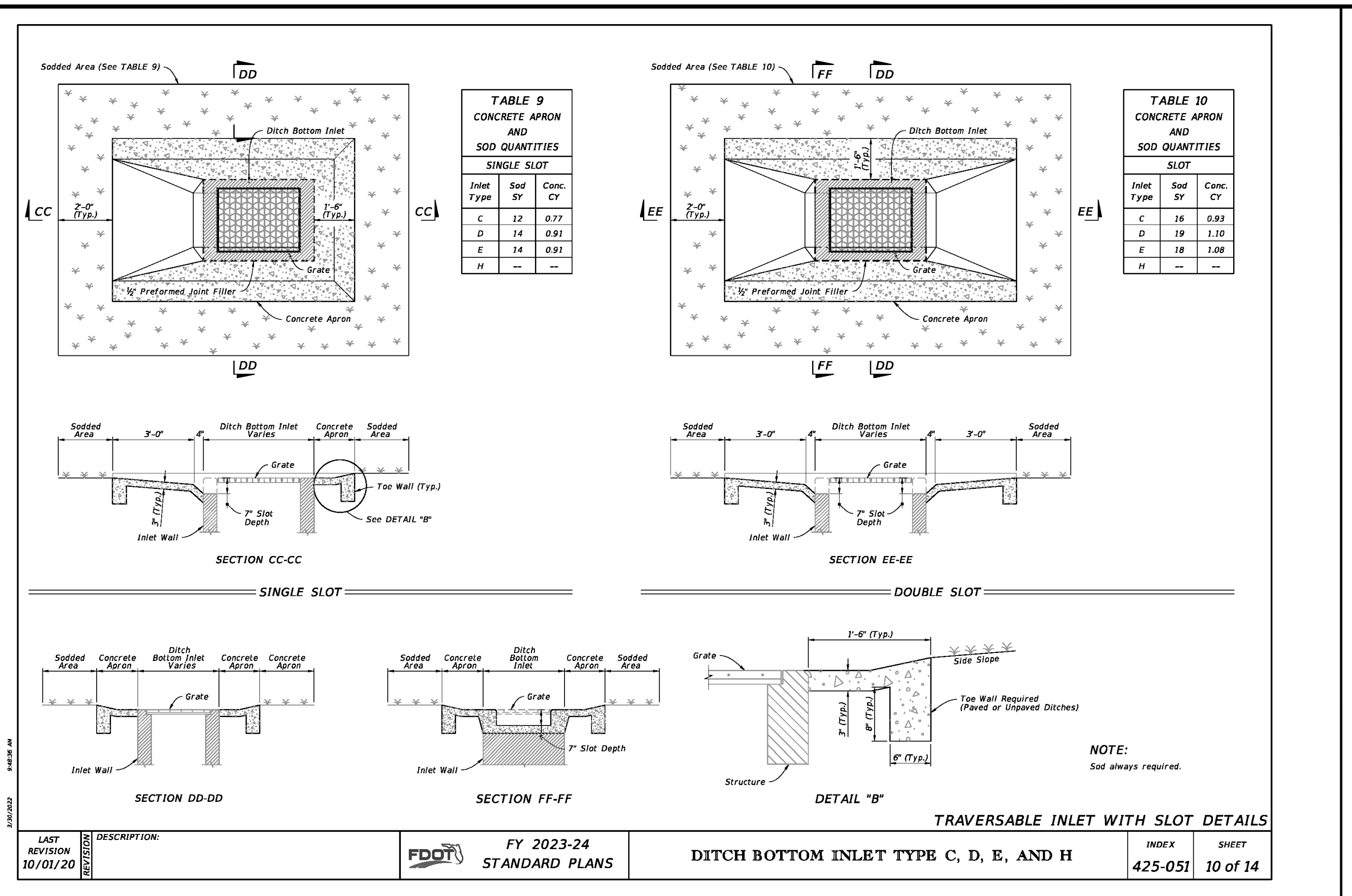
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SIGNATURE:							



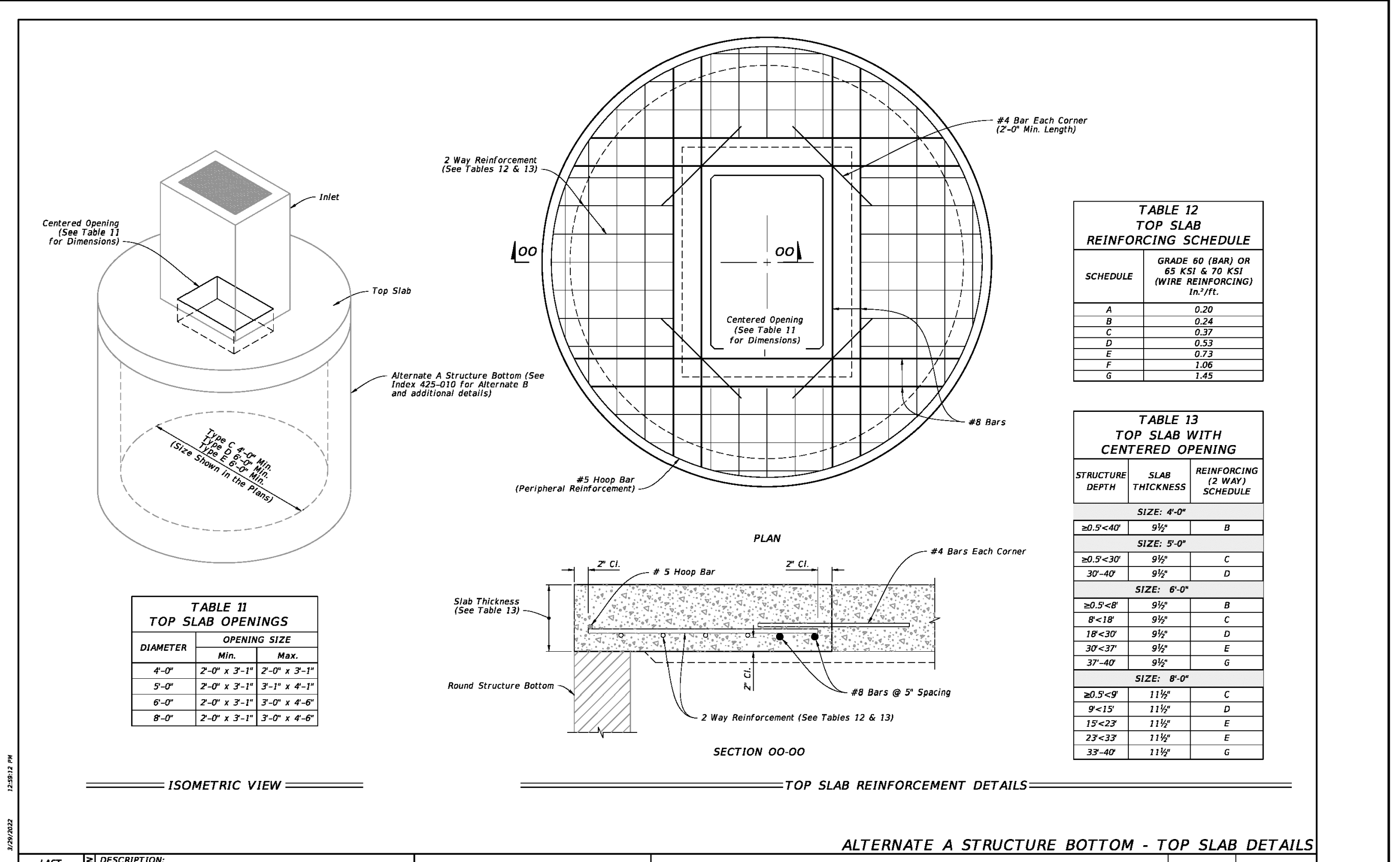
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11/01/20					425-052	6 of 14



LAST REVISION	DESCRIPTION:	FDOT	FY 2022-23 STANDARD PLANS	DITCH BOTTOM INLET TYPE C, D, E, AND H	INDEX	SHEET
11/01/20					425-052	9 of 14



LAST REVISION	DESCRIPTION:	FDOT	FY 2023-24 STANDARD PLANS	DITCH BOTTOM INLET TYPE C, D, E, AND H	INDEX	SHEET
10/01/20					425-051	10 of 14



LAST REVISION	DESCRIPTION:	FDOT	FY 2022-23 STANDARD PLANS	DITCH BOTTOM INLET TYPE C, D, E, AND H	INDEX	SHEET
10/01/20					425-052	14 of 14

**MORENO STREET
STORMWATER POND & SIDEWALK IMPROVEMENTS
PROJECT DETAILS**

ESCAMBA COUNTY, FLORIDA

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8874 Turkey Buft Road
Neville, Florida 32666
P: (850) 889-8732
CERTIFICATE OF AUTHORIZATION: CA-30886

MUNICIPAL ENGINEERING SERVICES INC.

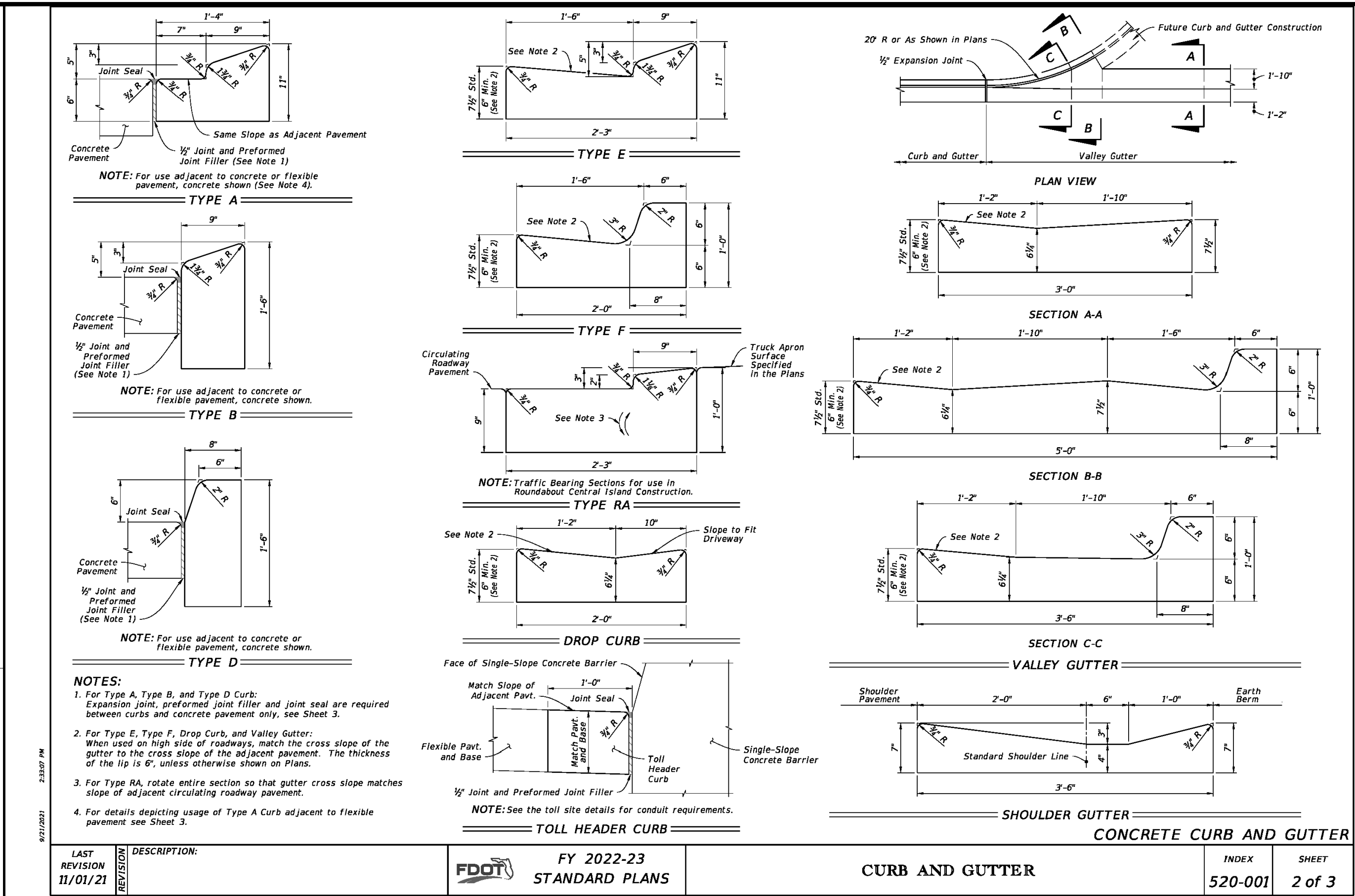
DESIGNED BY: WVP/JJ
CHECKED BY: WVP/JJ
DATE: SEPTEMBER 2022
PROJECT MANAGER: DIMITRI TROKIN
DISTRICT: 3
SECTION/TOWNSHIP/RANGE: 12-25-34W

DRAWN BY: EMD
DATE: SEPTEMBER 2022
PROJECT MANAGER: DIMITRI TROKIN
DISTRICT: 3
SECTION/TOWNSHIP/RANGE: 12-25-34W

DATE: 6/12/2023
RELEASED FOR CONSTRUCTION

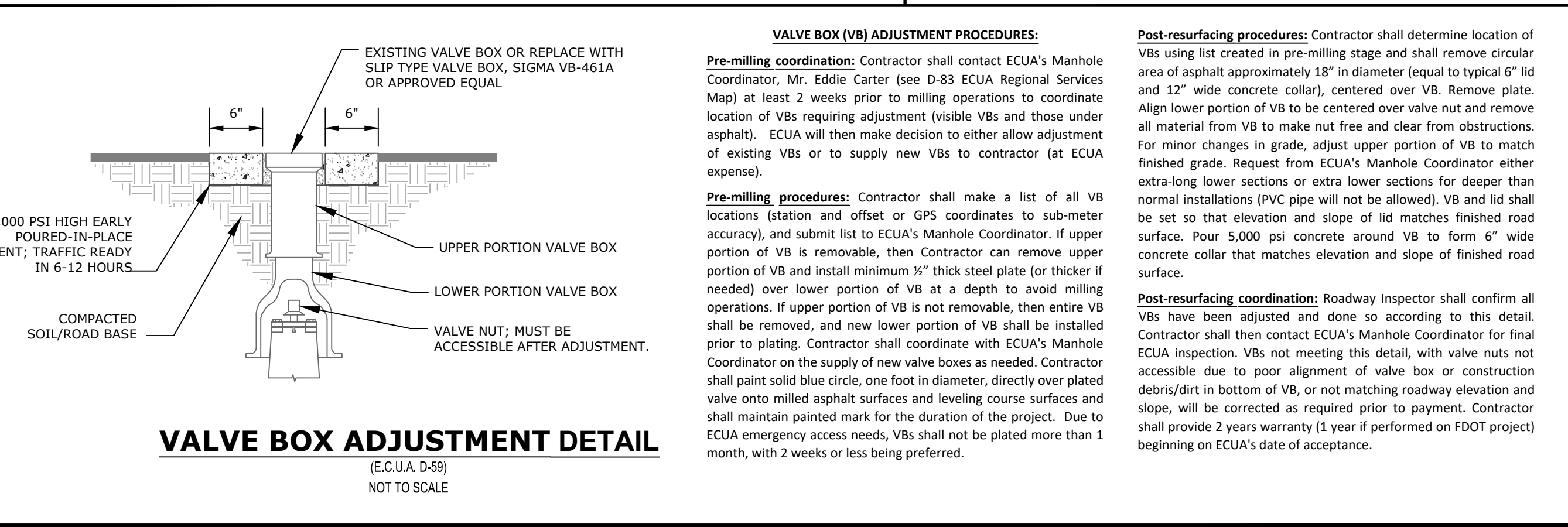
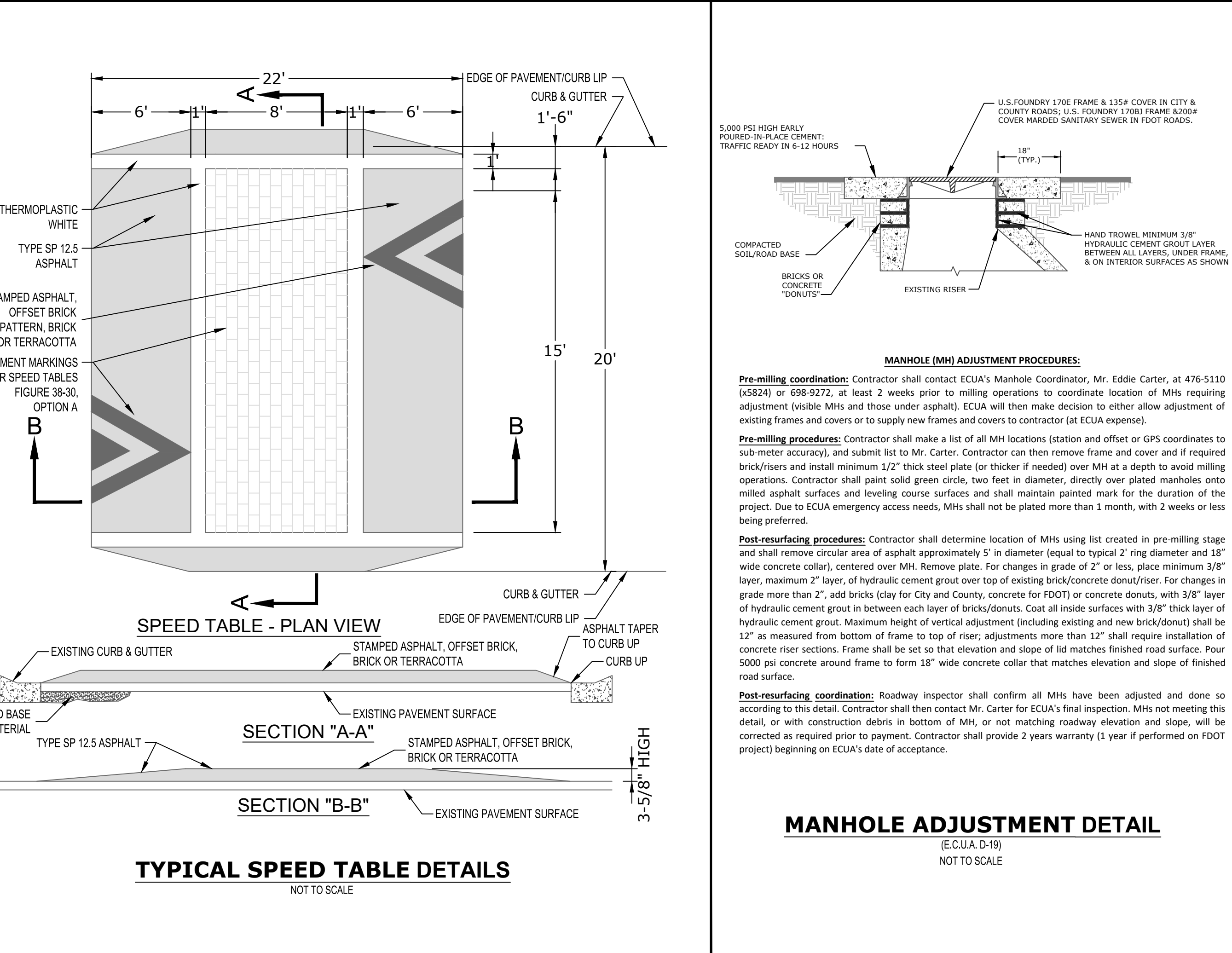
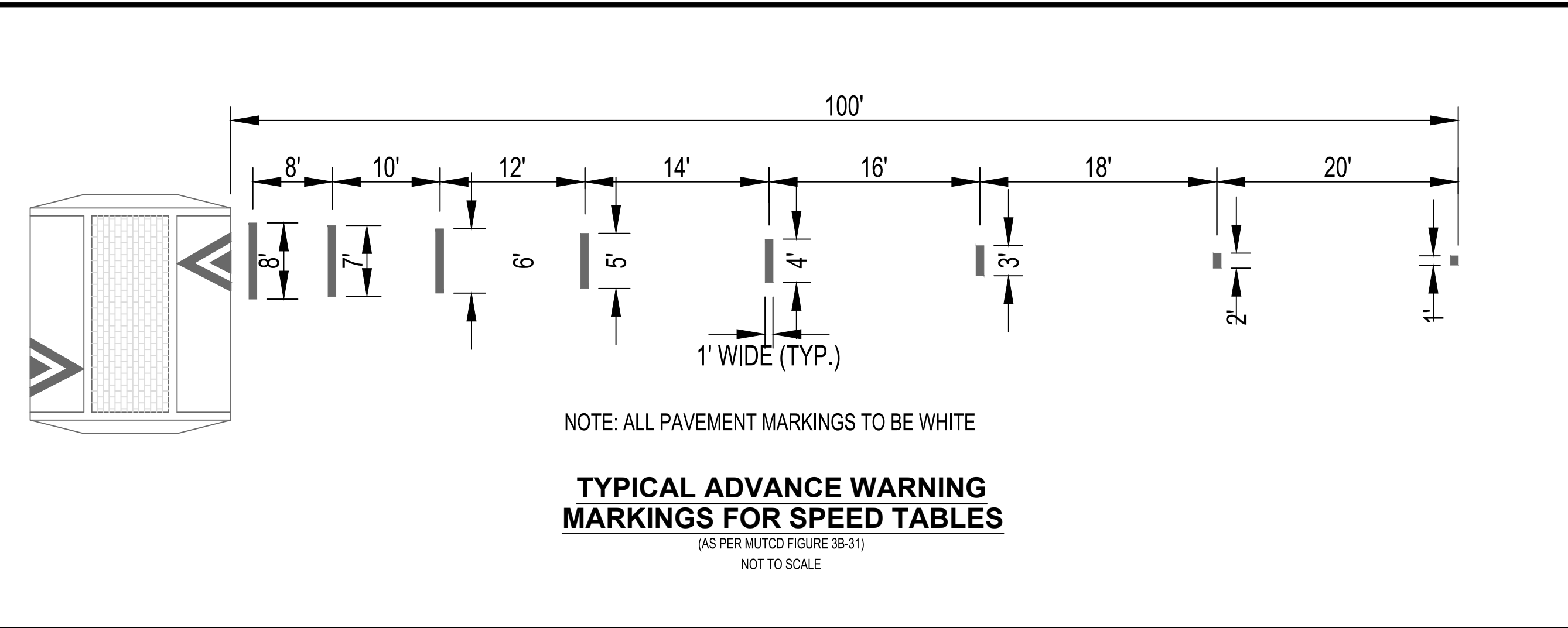
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PROJECT NUMBER: 170001-008
SURVEY NUMBER: L-6069
SHEET: 17 OF 18

PHASE	REVIEW	SIGNATURE:
ORIGINATOR (QR)	Correct (Green Highlighter) Change (Red Pen)	DATE
CHECKER (RP)	(Red Pen X-Out to Disagree or Remark)	DATE
PRODUCTION CHECKING COMPLETE, READY FOR SUBMITTAL REVIEW (RP)	CHANGE INCORPORATION (Yellow Highlighter)	DATE
ORIGINATOR (QR)	Correct (Blue Highlighter)	DATE
REMARK INCORPORATION (Blue Highlighter)	DATE	
ORIGINATOR VERIFICATION (Correct (Pink Highlighter))	DATE	



LAST REVISION	DESCRIPTION:	INDEX	SHEET
11/01/21		520-001	2 of 3

FDOT FY 2022-23 STANDARD PLANS



MORENO STREET STORMWATER POND & SIDEWALK IMPROVEMENTS PROJECT DETAILS

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 8874 Turkey Bluff Road
 Newberry, Florida 32666
 P: (850) 869-8702
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REG. FEA. NO. 55393
 CHECKED BY: WVPJ
 DESIGNED BY: WVPJ
 PROJECT MANAGER: DMITRIY TROKHIN
 DISTRICT: 3
 SECTION/TOWNSHIP/RANGE: 12-25-34W

DATE: SEPTEMBER 2022
 DRAWN BY: ESC
 ESC: EB-44, PPT-11

DATE: 6/12/23
 RELEASED FOR CONSTRUCTION

DRAWING NUMBER: C-605
 PROJECT NUMBER: 170001-008
 SURVEY NUMBER: ESC L-6069

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