

City of Safety Harbor

Engineering Department
750 Main Street



9th Avenue North Resurfacing

CITY OFFICIALS

Joe Ayoub, Mayor
Carlos Diaz, Vice-Mayor
Nancy Besore, Commissioner
Jacob Burnett, Commissioner
Andy Steingold, Commissioner
Josh Stefancic, City Manager

INDEX OF SHEETS	
SHEET NUMBER	SHEET TITLE
C-0.0	COVER SHEET
C-1.0	NOTES AND LOCATION MAP
C-2.0	9TH AVENUE NORTH PLAN
C-3.0	DETAILS (1)
C-3.1	DETAILS (2)
EXHIBIT 1	CONCRETE REMOVAL AND REPLACEMENT
EXHIBIT 2	CONCRETE REMOVAL AND REPLACEMENT
EXHIBIT 3	CONCRETE REMOVAL AND REPLACEMENT

BID PLANS
AUGUST 2025

GENERAL NOTES

1. ALL WORK IN THE VICINITY OF OPEN WATER AND / OR WETLANDS TO BE PERFORMED IN COMPLIANCE WITH THE ENVIRONMENTAL PERMITS FOR THE SITE. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY FINE RESULTING FROM HIS VIOLATION OF PERMIT CONDITIONS.
2. SPECIAL CARE SHALL BE TAKEN TO ENSURE THAT EXISTING TREES TO BE SAVED REMAIN UNDAMAGED DURING CONSTRUCTION. TREE BARRIERS SHALL BE IN ACCORDANCE WITH CITY OF SAFETY HARBOR STANDARDS.
3. CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT / REPAIR OF ALL IRRIGATION LINES, FITTINGS, VALVES, SPRINKLER HEADS, ETC. THAT MAY BE DAMAGED DURING EARTHWORK ACTIVITIES.
4. IT SHALL BE THE CONTRACTORS RESPONSIBILITY AND EXPENSE TO REPAIR ANY DAMAGE CAUSED BY THEIR ACTIVITIES TO AREAS OUTSIDE THE LIMITS OF CONSTRUCTION AND RESTORE TO ORIGINAL CONDITION. ALL GRASS AREAS AND PAVEMENT AREAS OUTSIDE THE LIMITS OF DEMOLITION SHALL BE RESTORED TO ORIGINAL CONDITION. CONTRACTOR TO RESTORE EXISTING PAVEMENT AREAS TO ORIGINAL ELEVATION TO ENSURE POSITIVE DRAINAGE WHICH SHALL INCLUDE RESTORATION OF PAVEMENT STRIPING. LANDSCAPE AREAS TO BE RESTORED TO ORIGINAL CONDITION.
5. THE SITE CONTRACTOR SHALL SOD ALL DISTURBED AREAS AFFECTED BY THEIR WORK WITH A GRASS TYPE THAT MATCHES EXISTING SOD. BAHIA SHALL BE USED IN AREAS WHERE THERE IS NOT AN ESTABLISHED GRASS TYPE .
6. ALL CONSTRUCTION SHALL CONFORM TO THE STANDARD SPECIFICATIONS OF THE CITY OF SAFETY HARBOR, PINELLAS COUNTY, FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT), AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES, REGULATIONS, AND ORDINANCES. ALL SUCH COMPLIANCE SHALL BE AT THE CONTRACTOR'S SOLE EXPENSE.
7. THE OWNER / ENGINEER SHALL BE NOTIFIED IMMEDIATELY IF ANY UNEXPECTED SUBSURFACE CONDITIONS ARE ENCOUNTERED WHICH AFFECTS THE WORK.

EROSION AND SEDIMENTATION CONTROL MEASURES

1. ALL PRACTICABLE AND NECESSARY EFFORT SHALL BE TAKEN DURING CONSTRUCTION TO CONTROL AND PREVENT EROSION AND TRANSPORT OF SEDIMENT MATERIAL TO INLETS, SURFACE DRAINS, WETLANDS AND LAKE AREAS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RESTORATION EFFORTS THAT MAY BE REQUIRED.
2. FOR ALL EROSION CONTROL MEASURES REFER TO FDOT STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION, SECTION 104 (LATEST EDITION).
3. THE CONTRACTOR IS RESPONSIBLE FOR ANY FINES OR RESTITUTION OR CORRECTIVE MEASURES AS DEEMED NECESSARY BY THE LOCAL AGENCIES AS RESULT OF ANY EROSION CONTROL ISSUES THAT MAY ARISE DURING CONSTRUCTION.
4. THE TYPE OF EROSION CONTROL BARRIERS USED SHALL BE GOVERNED BY THE NATURE OF THE CONSTRUCTION OPERATION AND SOIL TYPE THAT WILL BE EXPOSED. IT MAY BE NECESSARY TO EMPLOY A COMBINATION OF BARRIERS, DITCHES, AND OTHER EROSION / TURBIDITY CONTROL MEASURES IF CONDITIONS WARRANT.
5. THE CONTRACTOR SHALL PROVIDE ROUTINE MAINTENANCE OF EROSION CONTROL FEATURES UNTIL THE PROJECT IS COMPLETE AND ALL BARED SOIL STABILIZED. SILTATION ACCUMULATIONS GREATER THAN THE LESSER OF 12 INCHES OR ONE-HALF THE DEPTH OF THE SILTATION CONTROL BARRIER SHALL BE IMMEDIATELY REMOVED AND PLACED IN UPLAND AREAS.
6. THE CONTRACTOR SHALL SWEEP ALL ADJACENT ROADWAYS AND PARKING AREAS THAT ARE AFFECTED BY THE CONSTRUCTION PROCESS ON A DAILY BASIS OR AS REQUIRED.
7. THE CONTRACTOR SHALL TAKE ALL REASONABLE MEANS TO ELIMINATE THE TRANSPORT OF DUST FROM THE PROJECT SITE. SPECIAL MEASURES, SUCH AS PERIODICALLY APPLYING WATER TO THE WORK SITE TO PREVENT DUST SHALL BE INCORPORATED INTO THE CONTRACTORS WORK PLAN.

NOTICES TO HOME OWNERS AND AUTHORITIES

SHALL BE REPORTED TO THE CITY IMMEDIATELY. CORRECTIVE MEASURES WILL BE THE CONTRACTOR'S RESPONSIBILITY.

9. ANY DISCHARGE OF STORM WATER RUNOFF FROM THIS SITE SHALL BE THROUGH A CONTROL DEVICE TO CONTROL TURBIDITY AND SEDIMENT TRANSPORT. THIS INCLUDES THE DISCHARGE FROM ANY DEWATERING OPERATIONS. (IF NECESSARY) OFFSITE DISCHARGE OF PRODUCED GROUNDWATER FROM DEWATERING SHALL COMPLY WITH DEWATERING GUIDELINES FROM FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP), F.A.C., 62-621(2).

10. NO DEBRIS SHALL BE ALLOWED TO ENTER THE EXISTING STORM OR SANITARY SEWER SYSTEMS.

11. ONCE CONSTRUCTION IS COMPLETE, IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THE ON-SITE AND ADJACENT OFF-SITE STORM SYSTEMS ARE CLEAN AND CLEAR OF ANY SILTS OR DEBRIS THAT MAY HAVE WASHED OUT DURING THE CONSTRUCTION PROCESS.

12. EROSION CONTROL MEASURES ARE NOT TO BE REMOVED UNTIL ALL CONSTRUCTION IN THE AREA IS COMPLETE, LANDSCAPE HAS BEEN INSTALLED, ALL DISTURBED AREAS HAVE BEEN SODDED (OR SEEDING HAS TAKEN HOLD) AND ALL INSPECTIONS HAVE BEEN DONE.

1. CONTRACTOR SHALL NOTIFY OWNERS OF ADJACENT PROPERTY AND UTILITIES WHEN PERFORMANCE OF THE WORK MAY AFFECT THEM. WHEN IT IS NECESSARY TO TEMPORARILY MODIFY ACCESS BY OWNERS OR TENANTS TO THEIR PROPERTY, OR WHEN ANY UTILITY SERVICE CONNECTION MUST BE INTERRUPTED, GIVE NOTICES A MINIMUM OF ONE (1) WEEK IN ADVANCE TO ENABLE THE AFFECTED PERSONS TO PROVIDE FOR THEIR NEEDS.

2. CONFORM NOTICE TO ANY APPLICABLE LOCAL ORDINANCE, DELIVER IN WRITING, AND INCLUDE APPROPRIATE INFORMATION CONCERNING THE INTERRUPTION AND INSTRUCTION ON HOW TO LIMIT THEIR INCONVENIENCE. NOTICES SHALL ALSO INCLUDE A LINK TO THE CITY WEBSITE FOR PROJECT SCOPE, SCHEDULE, AND CONTACT INFORMATION FOR THE CITY AND CONTRACTOR STAFF.

3. CONTRACTOR SHALL PLACE THE NOTICES IN A CONSPICUOUS PLACE.

4. CONTRACTOR SHALL PROVIDE TO THE RESIDENTS A SECOND NOTICE WITH A SCHEDULE WHEN INDIVIDUAL SEGMENTS OF THE PROJECT ARE TO BE IMPACTED.

5. CONTRACTOR SHALL CONTACT THE RESIDENTS PRIOR TO WORK WHEN LANDSCAPING, IRRIGATION, OR ANY OTHER ABOVE GROUND OCCUPATION IS TO BE IMPACTED.

CONT
CALL
OR SO
DIGGI
TO BE
PROJ
EXTR
THE M

CONSTRUCTION NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL PLAN DIMENSIONS, SITE CONDITIONS AND IS TO NOTIFY THE CITY OF ANY DISCREPANCIES BETWEEN THE SITE CONDITIONS AND INFORMATION SHOWN ON THE PLANS PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR ALSO ACKNOWLEDGES THAT IT HAS SATISFIED ITSELF AS TO THE CHARACTER, QUALITY AND QUANTITY OF SURFACE AND SUBSURFACE MATERIALS OR OBSTACLES TO BE ENCOUNTERED INSOFAR AS THIS INFORMATION IS REASONABLY ASCERTAINABLE FROM AN INSPECTION OF THE SITE, ACCESS TO THE SITE, AND TERRITORY SURROUNDING THE SITE, INCLUDING ALL EXPLORATORY WORK DONE BY THE CITY AS WELL AS FROM THE DRAWINGS AND SPECIFICATIONS MADE A PART OF THIS CONTRACT. ANY FAILURE OF THE CONTRACTOR TO TAKE THE ACTIONS DESCRIBED IN THIS PARAGRAPH WILL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR ESTIMATING PROPERLY THE DIFFICULTY AND COST OF SUCCESSFULLY PERFORMING THE WORK OR FOR PROCEEDING TO PERFORM THE WORK SUCCESSFULLY WITHOUT ADDITIONAL EXPENSE TO THE CITY.

2. CONTRACTOR TO MILL AND RESURFACE STREETS AS DESCRIBED IN PROJECT SCOPE AND AS SHOWN ON PLANS. LIMITS ARE FROM FACE OF CURB TO FACE OF CURB INCLUDING ALL CURB RETURNS.

3. CONTRACTOR TO MILL AND RESURFACE TO MEET EXISTING SIDEWALK AND PAVEMENT GRADES, AND ASSURE POSITIVE DRAINAGE.

4. CONTRACTOR SHALL HAUL AWAY ALL MILLINGS AND DEBRIS TO AN APPROVED LANDFILL IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REQUIREMENTS.

5. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 711, AND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITIONS.

6. ALL RAISED PAVEMENT MARKERS SHALL BE IN ACCORDANCE WITH FDOT INDEX NO. 706-001, LATEST EDITION.

7. DIMENSIONS SHOWN ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY CONTRACTOR. NOTIFY CITY OF ANY DISCREPANCIES PRIOR TO PROPOSED CONSTRUCTION.

8. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF ANY SIDEWALK AND CURB DAMAGE THAT MAY OCCUR DURING MILLING AND RESURFACING.

9. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION SAFETY. SPECIAL PRECAUTIONS MAY BE REQUIRED IN THE VICINITY OF POWER LINES AND OTHER UTILITIES.

10. NO STOCKPILING OF MATERIALS IN ROADWAY RIGHT-OF-WAY OR ON SIDEWALK. RIGHT-OF-WAY, ROADS AND SIDEWALKS TO BE SWEPT DAILY AS PART OF DAILY CLEAN UP.

TRACTOR SHALL NOTIFY THE CITY, UTILITY PROVIDERS, POLICE, FIRE
THER CONCERNED AGENCIES AT LEAST FORTY-EIGHT (48) HOURS
TO DISRUPTING TRAFFIC OR CLOSING STREETS OR OTHER TRAFFIC
S, OR EXCAVATING NEAR UNDERGROUND UTILITIES OR POLES.

MINTENANCE OF TRAFFIC (MOT) NOTES

CONTRACTOR SHALL DEVELOP AND SUBMIT A DETAILED TRAFFIC
ROL PLAN AND MAINTENANCE OF TRAFFIC (MOT) PLAN TO THE CITY
PPROVAL WITHIN TEN (10) DAYS OF NOTICE OF AWARD. THE
TRACTOR SHALL ARRANGE HIS WORK SO THAT THERE WILL BE AS LITTLE
PTION OF TRAFFIC AS POSSIBLE. IT IS THE CONTRACTOR'S
NSIBILITY TO PROVIDE A SAFE TRAFFIC, PEDESTRIAN AND WORKING
ONMENT IN ACCORDANCE WITH THE GOVERNING REGULATIONS.

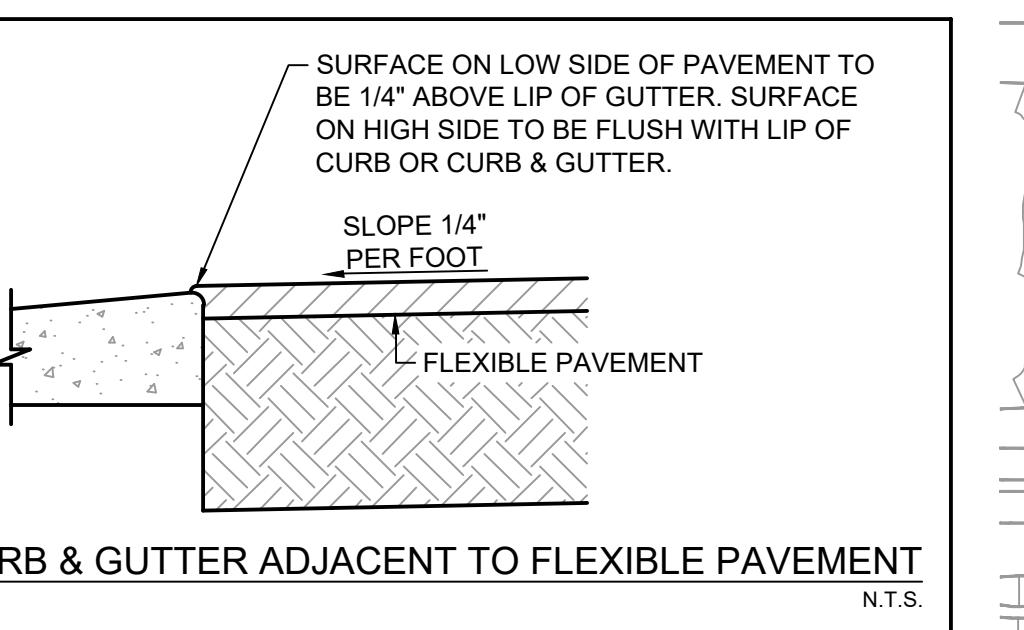
CONTRACTOR SHALL ADJUST THE MOT PLAN AS NECESSARY TO MEET
ELD CONDITIONS AT NO ADDITIONAL COST TO THE CITY. ANY
TIONS FROM THE APPROVED MOT PLAN SHALL BE SUBMITTED TO THE
OR REVIEW AND APPROVAL PRIOR TO ANY TRAFFIC DISRUPTION.

EN CONSTRUCTION ACTIVITIES NECESSITATE THE CLOSING OF A
IT TO THRU TRAFFIC, THE CONTRACTOR SHALL NOTIFY ALL AFFECTED
GENCY SERVICES ENTITIES OF THE CLOSED ROAD. IF NO OTHER
S OF ACCESS IS AVAILABLE, THE CONTRACTOR SHALL MAINTAIN, AT
MES, A 14-FOOT WIDE LANE ADJACENT TO THE WORK AREA, FREE OF
TRUCTION EQUIPMENT AND OBSTRUCTIONS, FOR THE USE OF
GENCY VEHICLES. THE CONTRACTOR SHALL PROVIDE CONTINUOUS
SS TO PROPERTIES ADJACENT TO WORK AREAS.

ROADS SHALL BE KEPT OPEN TO TWO-WAY TRAFFIC DURING
TRUCTION, EXCEPT ONE LANE TRAFFIC WILL BE PERMITTED PROVIDED
RIENCED FLAG PERSONNEL ARE USED. NECESSARY BARRICADES,
Y VESTS AND FLAGS SHALL BE USED. NO RESIDENCES OR PLACES OF
ESS WILL BE ISOLATED. SUITABLE ACCESS SHALL BE PROVIDED
EVER CONSTRUCTION INTERFERES WITH THE EXISTING MEANS OF
SS.

CONTRACTOR SHALL TAKE PRECAUTIONS TO ENSURE THE SAFETY OF
STRIANS PASSING NEAR WORK AREAS. THIS MAY ENTAIL THE ERECTION
TEMPORARY FENCE ON THE CONSTRUCTION SIDE OF PEDESTRIAN
GEWAYS TO DELINEATE OUT-OF-BOUNDS AREAS. THE PEDESTRIAN
GEWAYS SHALL REMAIN OPEN AND CLEAN OF DIRT AND DEBRIS AT
MES UNLESS PEDESTRIAN SAFETY CANNOT BE ASSURED, THEN THE
TRACTOR MAY CLOSE OFF SIDEWALK(S) WITH SIGNS AND FENCES AND
DIRECT PEDESTRIANS TO USE OTHER SUITABLE ROUTES. PEDESTRIAN
GEWAYS SHALL BE CLEARED AND SWEPT IN THE VICINITY OF
TRUCTION. THE CONTRACTOR SHALL PAY CLOSE ATTENTION TO THE
OF PEDESTRIAN SAFETY. THE CONTRACTOR SHALL INSTITUTE
URES INCLUDING, BUT NOT LIMITED TO TEMPORARY SURFACES AND
NELING DEVICES, TO ENSURE THE SAFE PASSAGE OF PEDESTRIANS.

TER TO PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS
MAINTENANCE OF TRAFFIC.



EP NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

CONTRACTOR SHALL OBTAIN AN NPDES STORMWATER PERMIT AND IMPLEMENT APPROPRIATE POLLUTION PREVENTION TECHNIQUES TO MINIMIZE EROSION AND SEDIMENTATION AND PROPERLY MANAGE STORMWATER. THE CONTRACTOR SHALL COMPLETE THE NECESSARY STEPS AS DESCRIBED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) FOR NPDES GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION VITIES. THE CONTRACTOR SHALL PROVIDE THE CITY ENGINEER WITH COPIES OF ALL FDEP DOCUMENTATION.

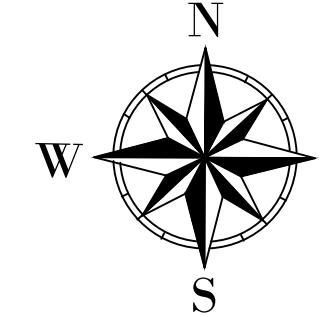


TRACTORS ARE REQUIRED BY LAW TO CALL 811 OR THE FLORIDA ONE CENTER (1-800-432-4770) AT LEAST 72 HOURS BEFORE ANY EXCAVATION OR DISTURBING ACTIVITY. (CALL 10 DAYS BEFORE DIGGING WHEN WORKING UNDER WATER.) WAIT THE REQUIRED TIME FOR BURIED UTILITIES TO BE LOCATED AND MARKED. PROTECT THE MARKS DURING YOUR WORK. IF MARKS ARE DESTROYED, CALL AGAIN. DIG SAFELY, USING DUE CAUTION WHEN DIGGING WITHIN 24 INCHES ON EITHER SIDE OF THE MARKS TO AVOID ENCOUNTERING THE BURIED UTILITY LINES.

GEND



URB AND SIDEWALK PROVEMENT LOCATIONS

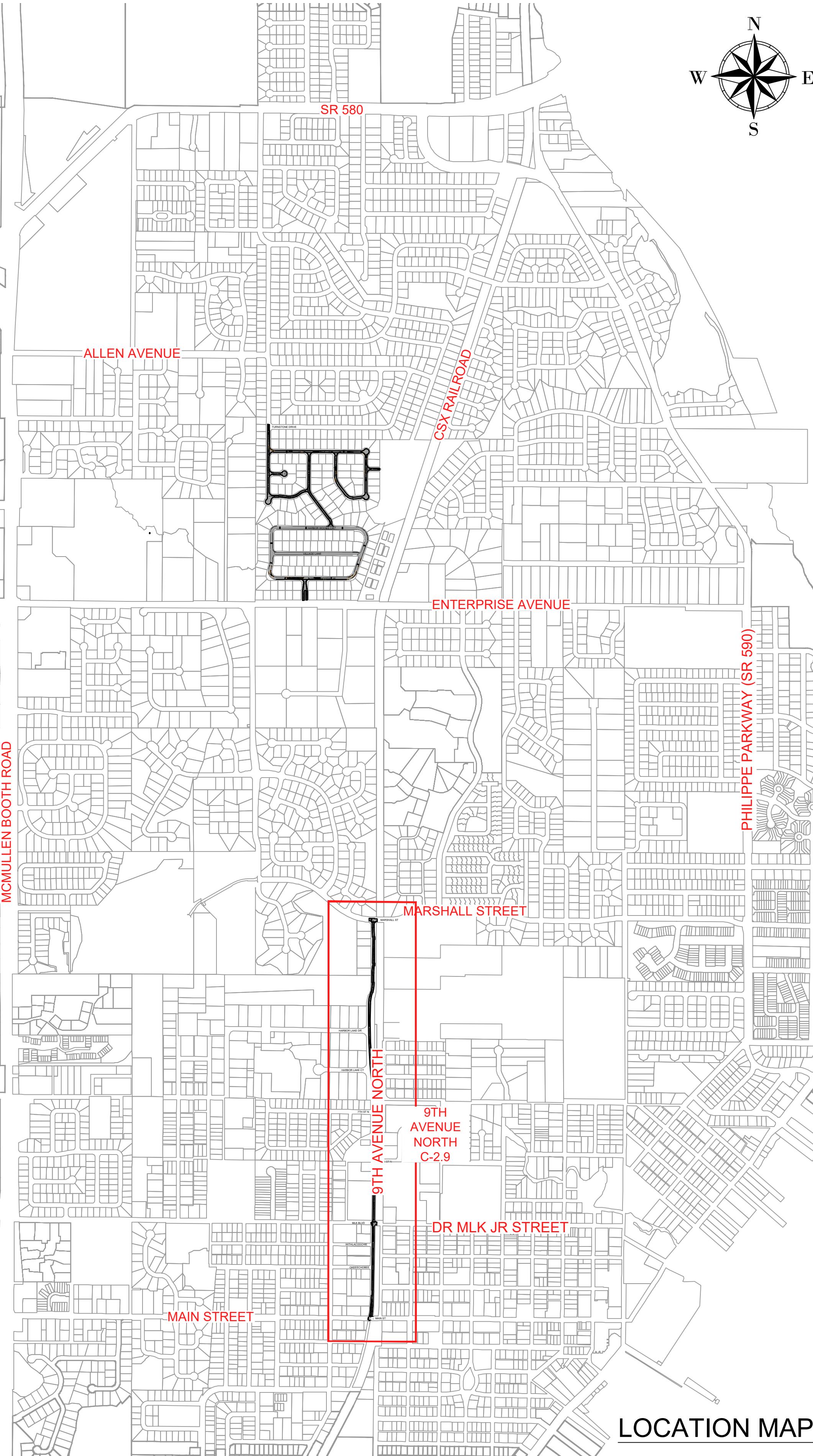


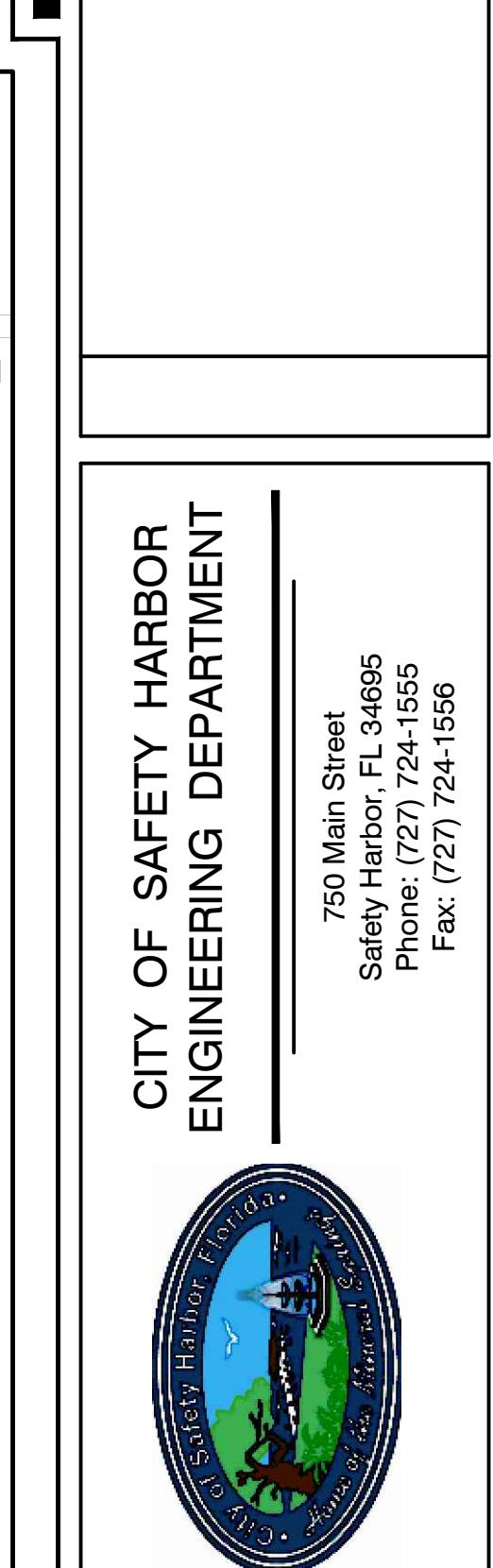
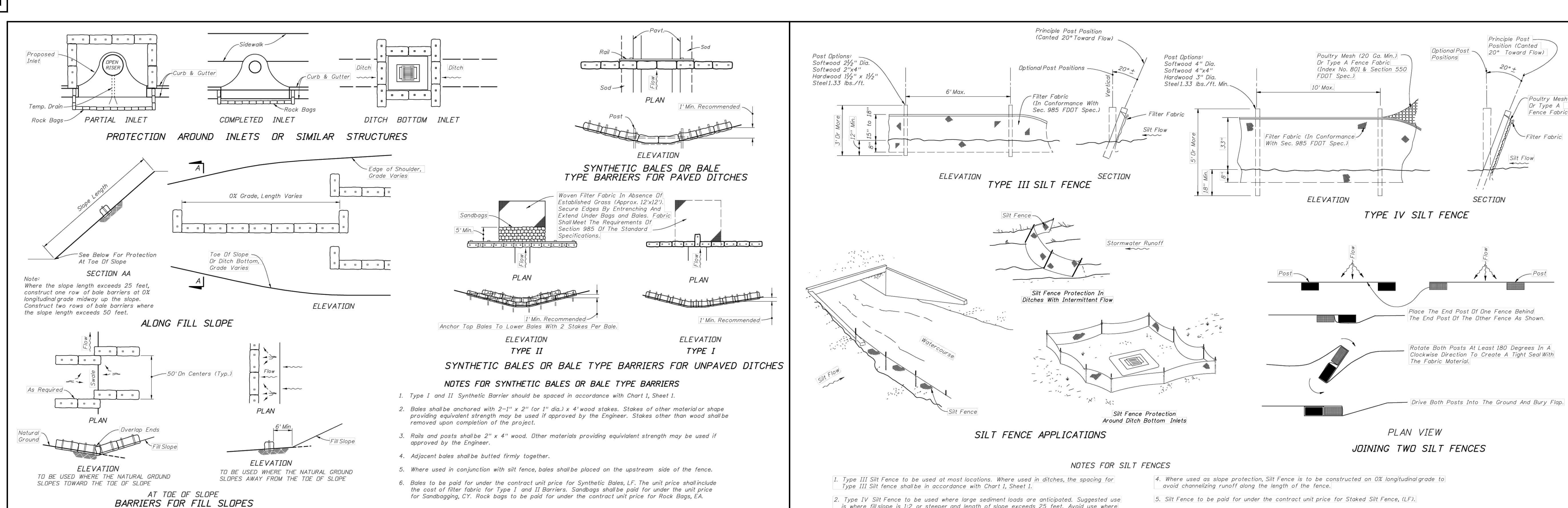
STREET RESURFACING AND MISCELLANEOUS ROAD WORK 2025



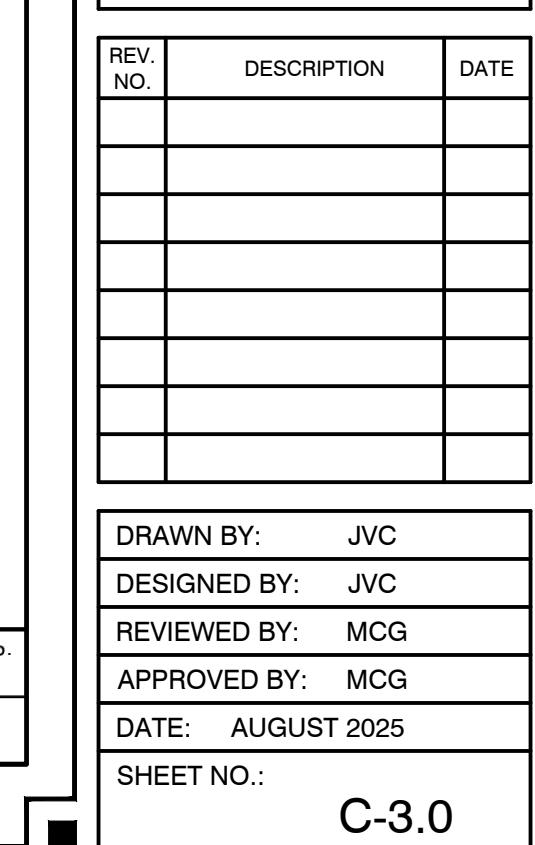
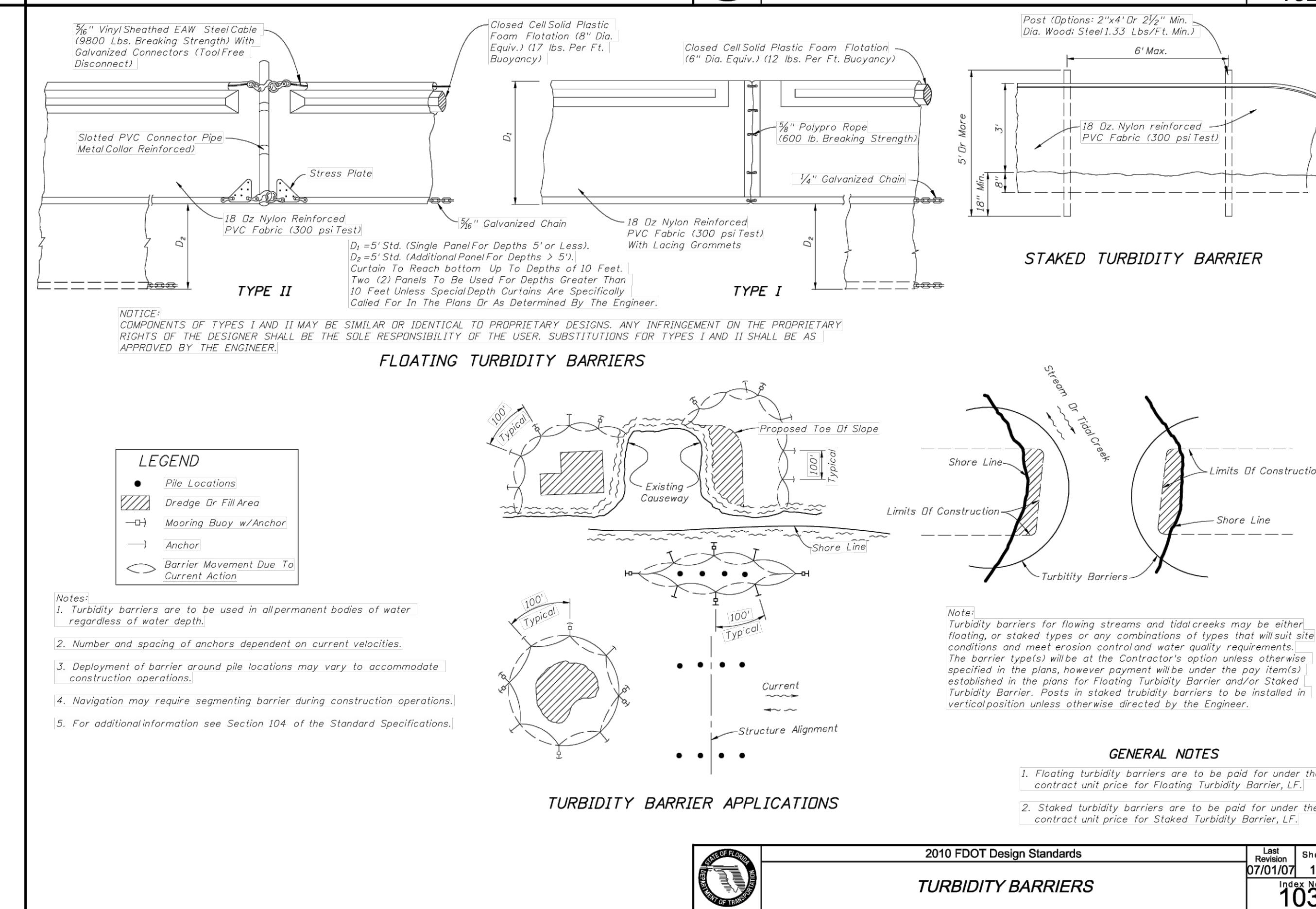
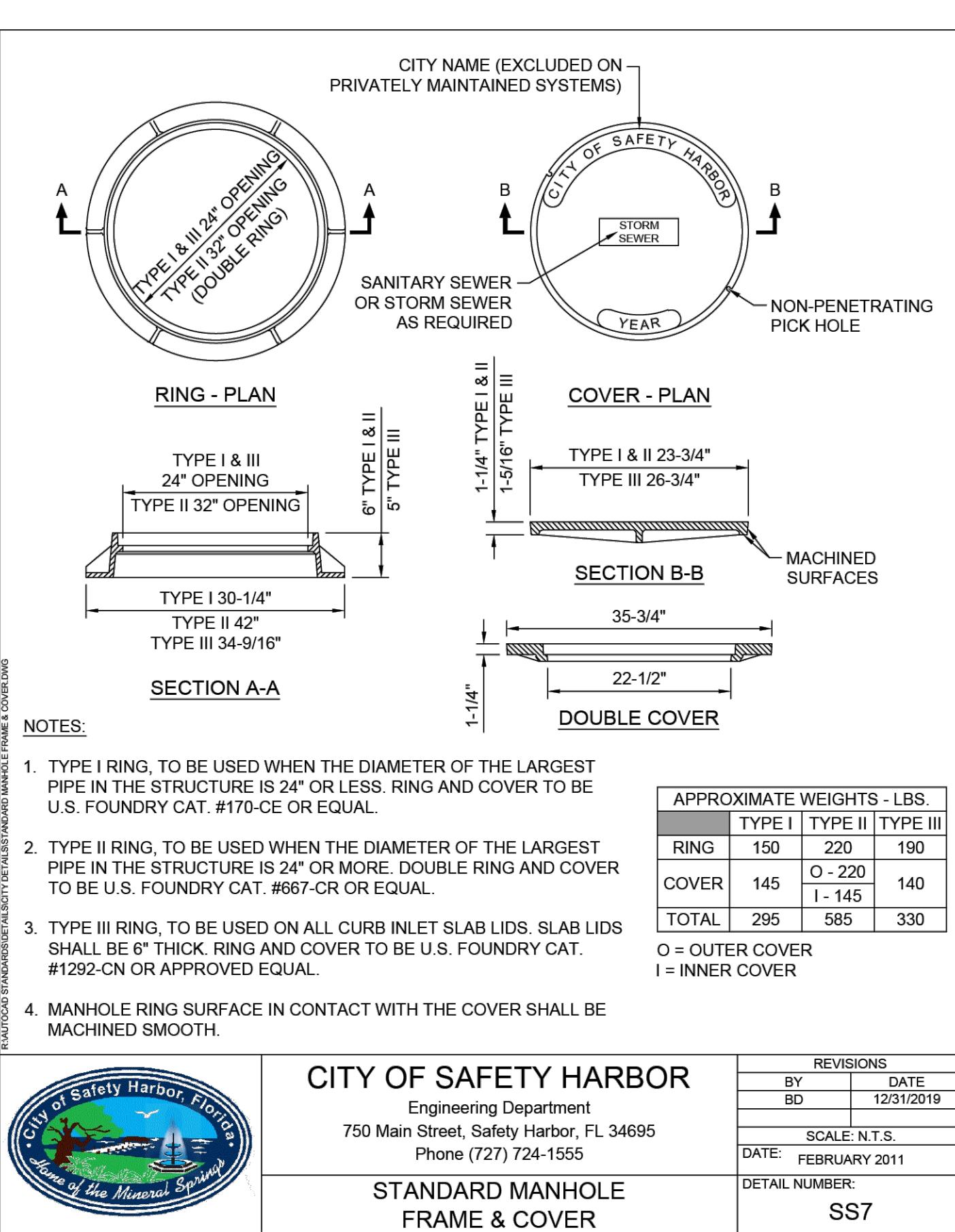
DRAWN BY:
DESIGNED BY:
REVIEWED BY:
APPROVED BY:
DATE: AUGU

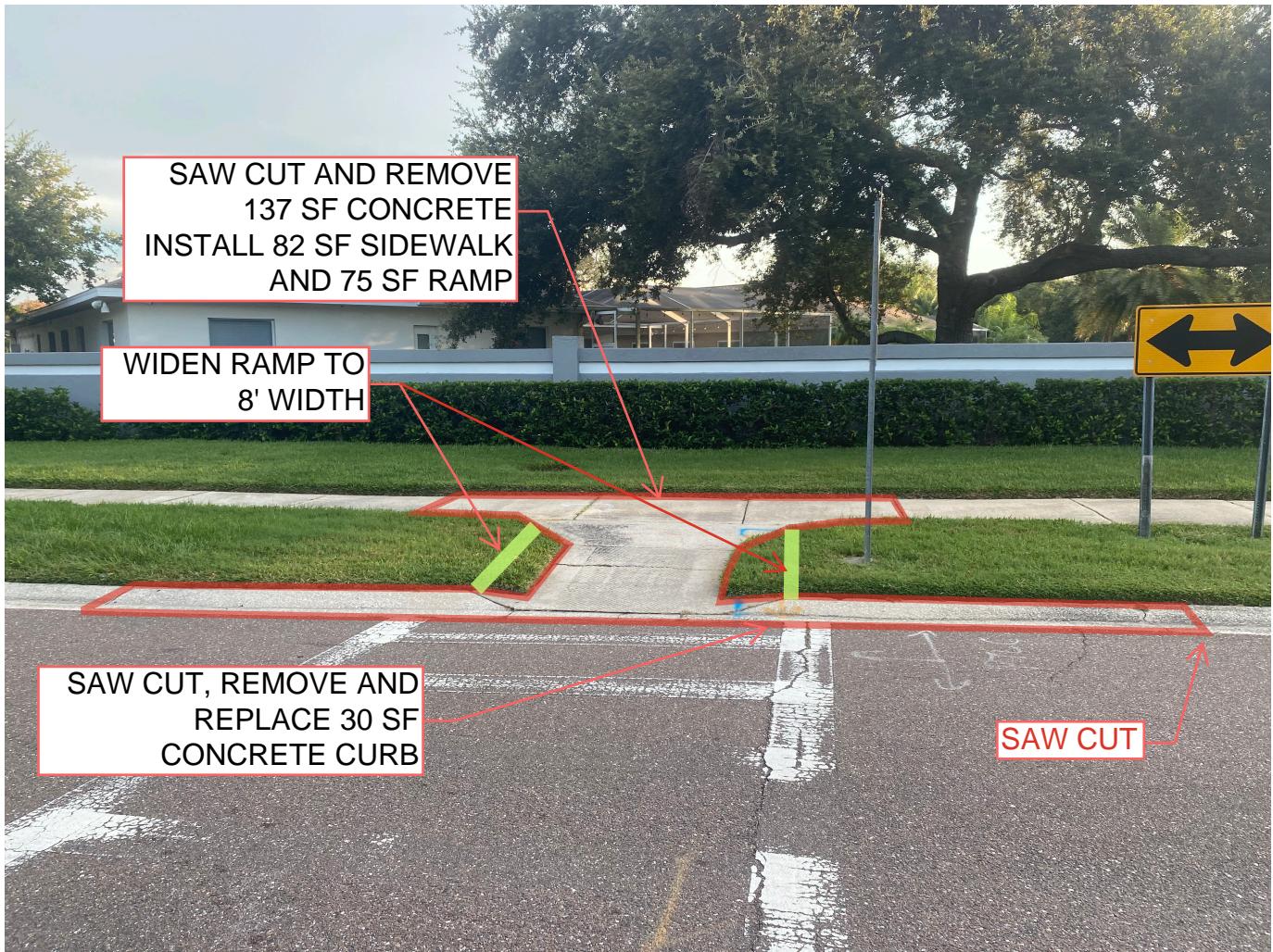
C-1.0



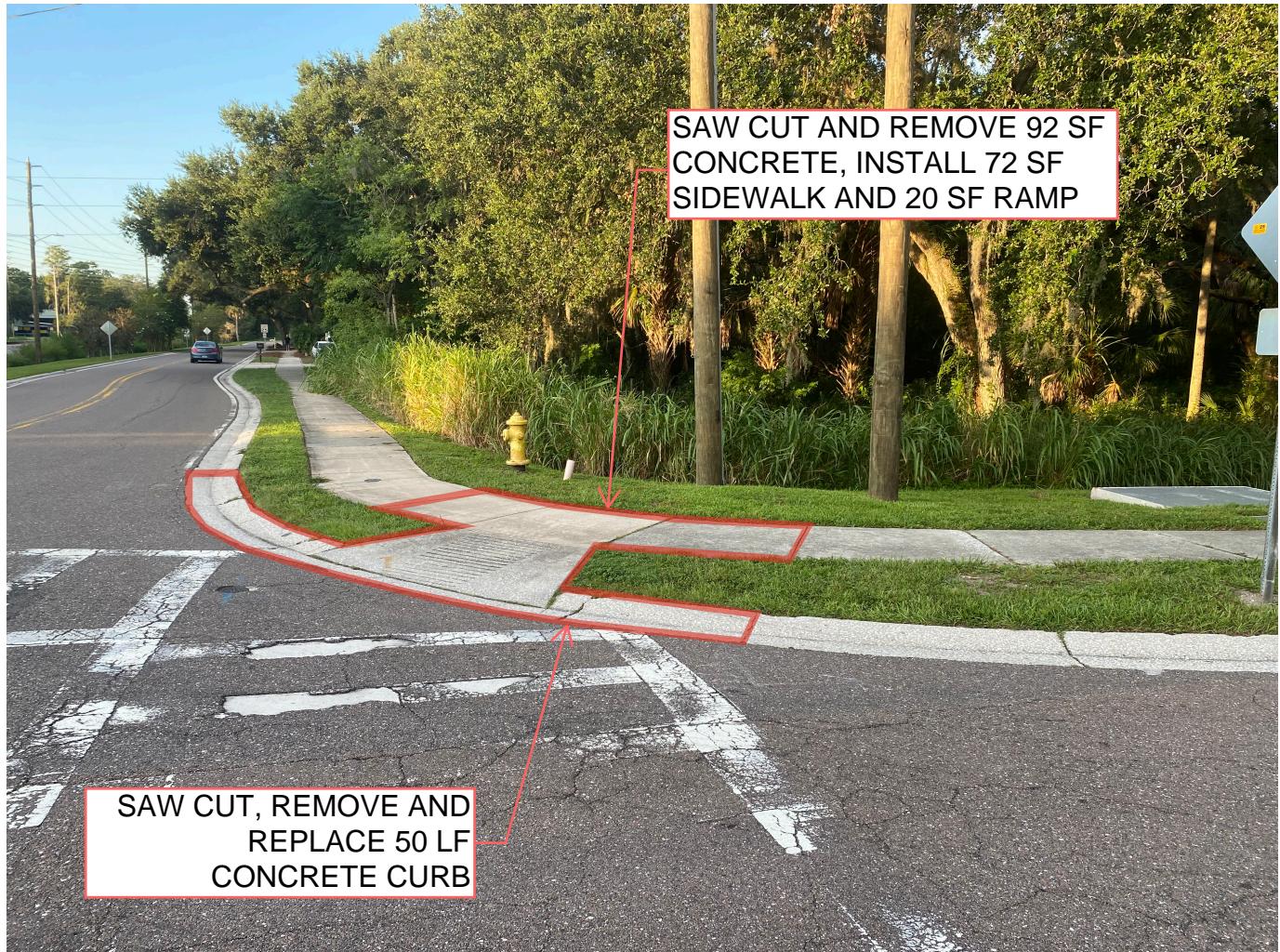


STREET RESURFACING AND MISCELLANEOUS ROAD WORK 2025

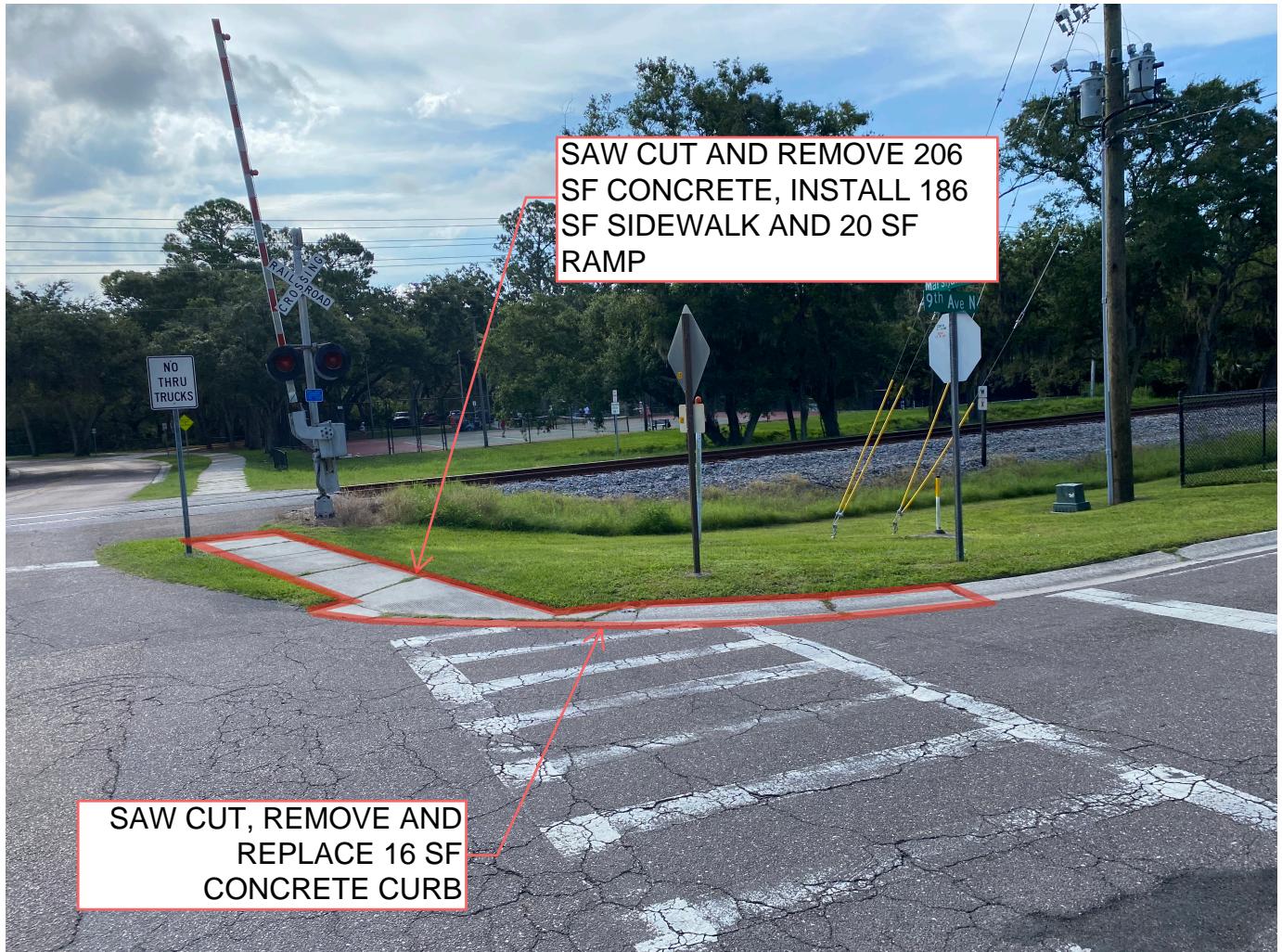




#1 9TH AVENUE NORTH AT MARSHALL STREET, NORTH SIDE
LOOKING NORTH



#2 9TH AVENUE NORTH AT MARSHALL STREET, SOUTHWEST CORNER
LOOKING SOUTH



#3 9TH AVENUE NORTH AT MARSHALL STREET SOUTHEAST CORNER
LOOKING EAST

City of Safety Harbor

Engineering Department
750 Main Street

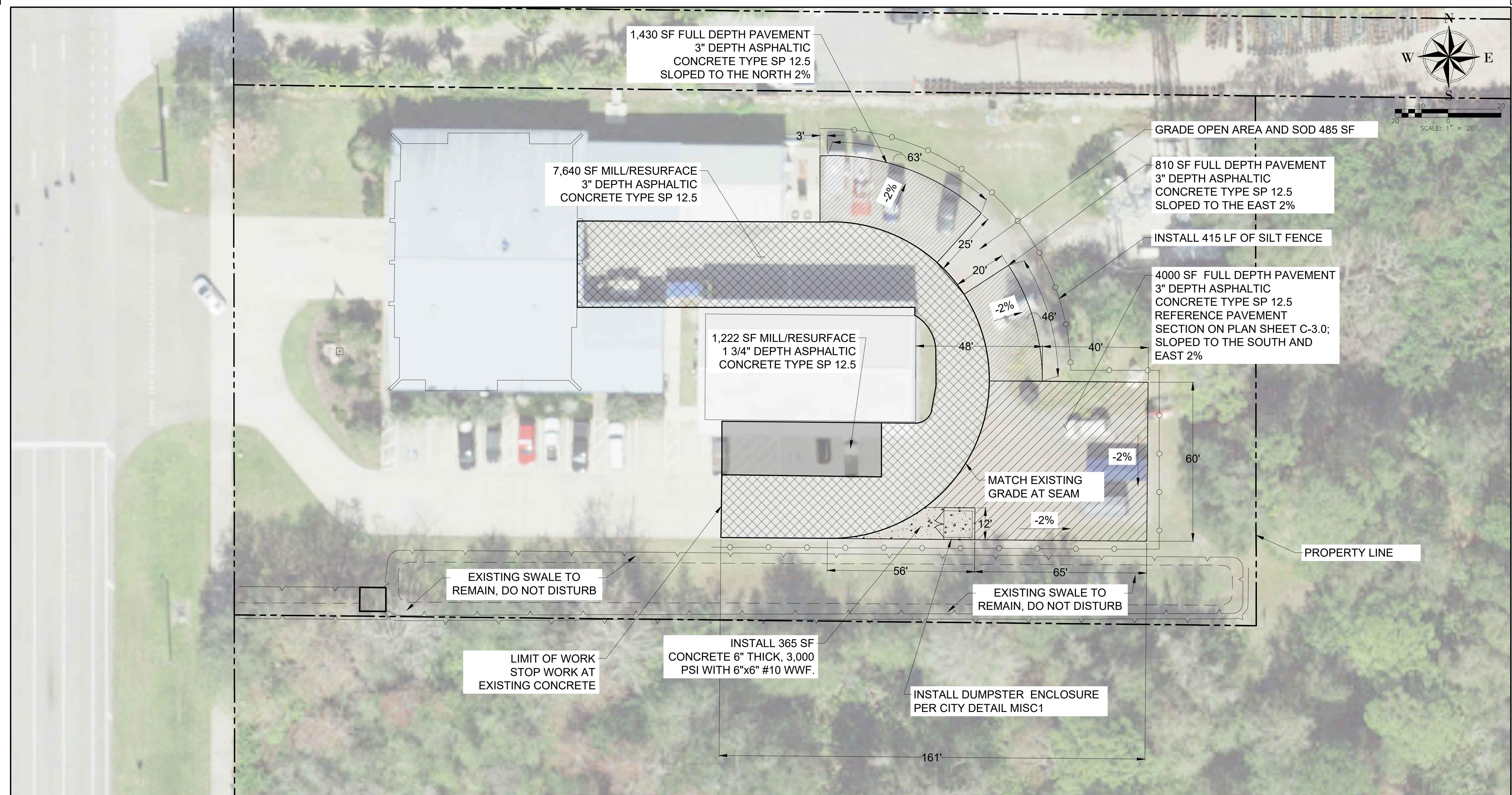


Fire Station 53 Paving

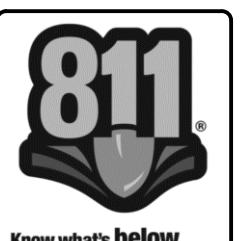
CITY OFFICIALS

Joe Ayoub, Mayor
Carlos Diaz, Vice-Mayor
Nancy Besore, Commissioner
Jacob Burnett, Commissioner
Andy Steingold, Commissioner
Josh Stefancic, City Manager

SHEET LIST TABLE	
SHEET NUMBER	SHEET TITLE
C-0.0	COVERSHEET
C-1.0	NOTES AND LOCATION MAP
C-2.0	PLAN
C-2.1	PAVEMENT MARKINGS
C-3.0	DETAILS (1)
C-3.1	DETAILS (2)



FIRE STATION 53 PAVING AND PAVEMENT REHABILITATION



Know what's below.
Call before you dig.

LEGEND

-  3" MILLING, 3" SP 12.5 PAVING
-  1 3/4" MILLING, 1 3/4" SP 12.5 PAVING
-  EXCAVATION AND FULL DEPTH
PAVEMENT PLACEMENT
-  PROPOSED SILT FENCE

DRAWN BY: JVC/TAW

DESIGNED BY: JVC/TAW

REVIEWED BY: MCG

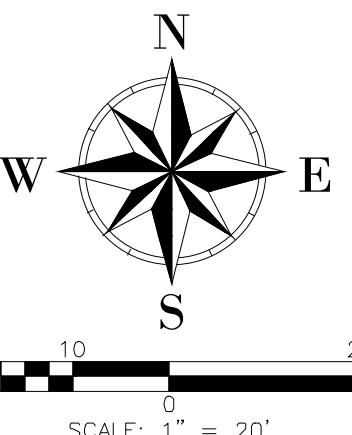
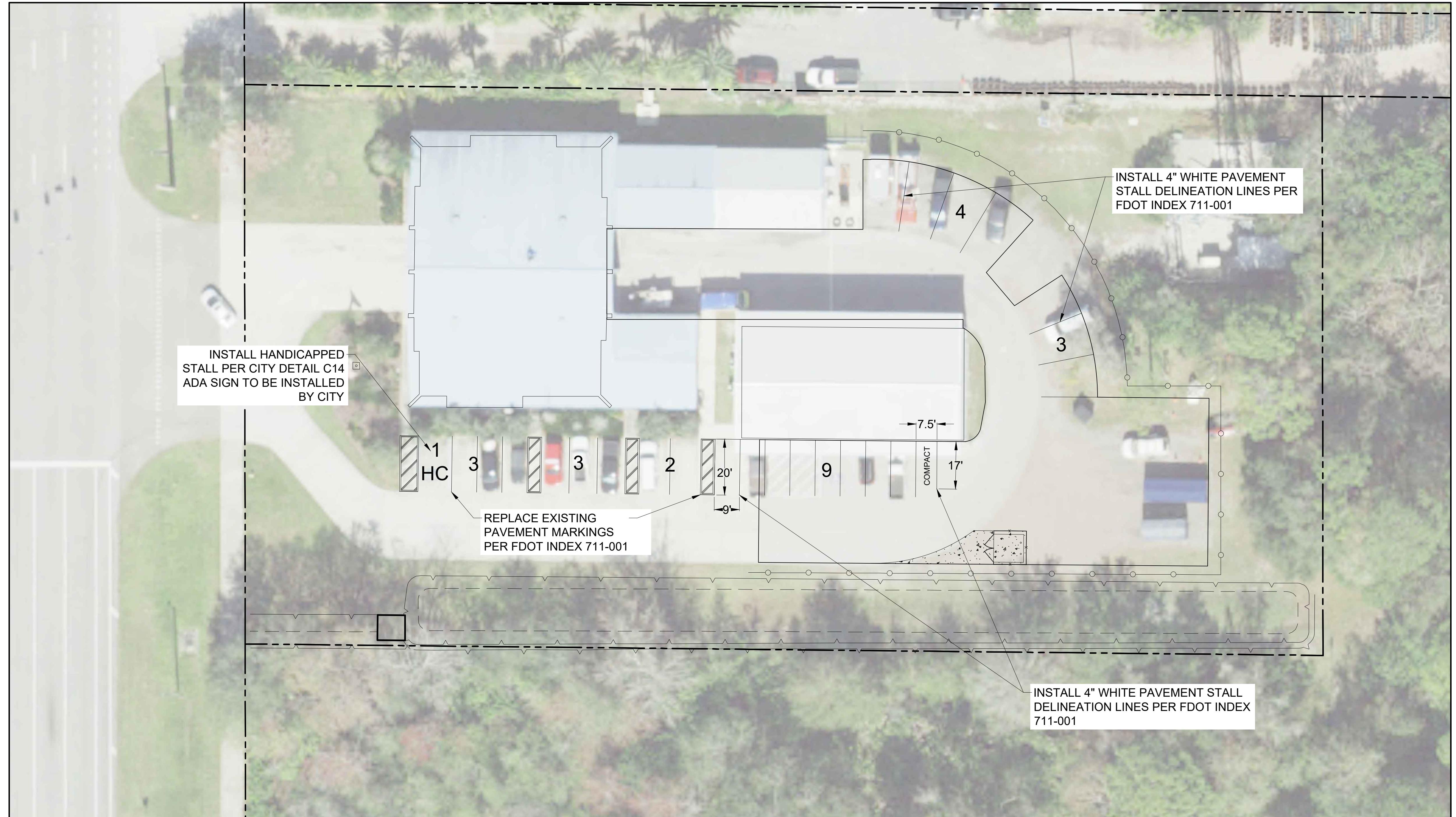
APPROVED BY: MCG

DATE: 08-04-25

SHEET NO.: 8

C-2.0

C-2.0



CITY OF SAFETY HARBOR
ENGINEERING DEPARTMENT



FIRE STATION 53 PAVING AND
PAVEMENT REHABILITATION

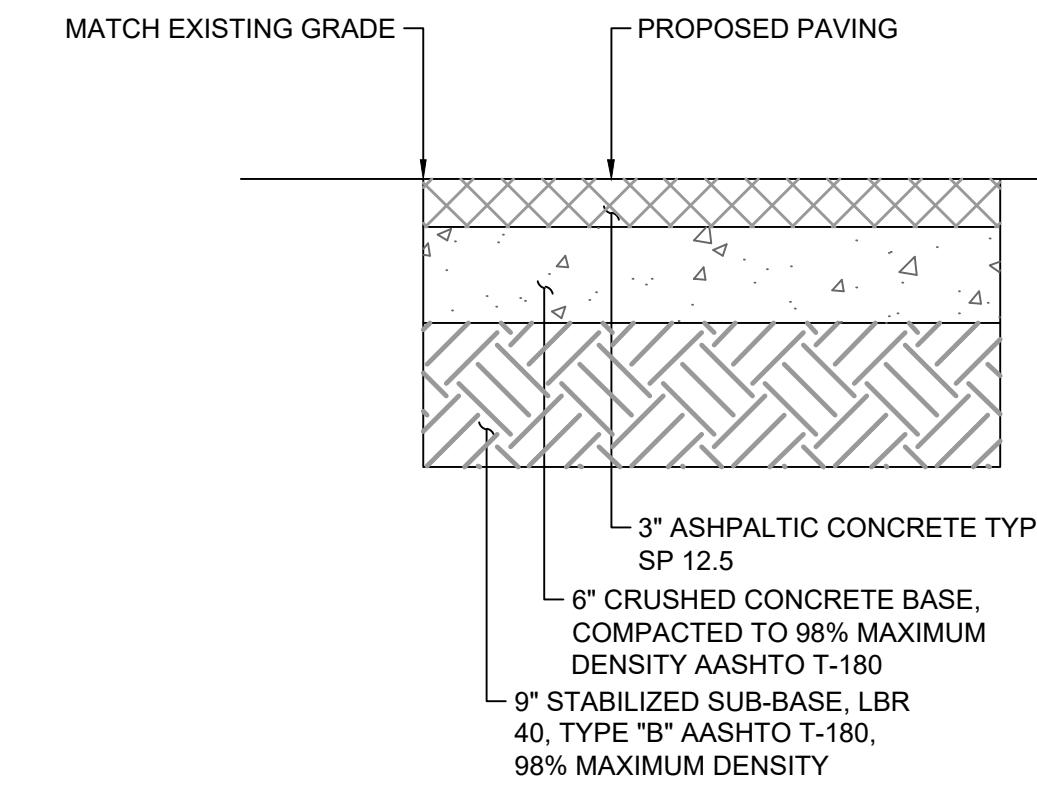
PAVEMENT MARKINGS



REV. NO.	DESCRIPTION	DATE

DRAWN BY: JVC/TAW
DESIGNED BY: JVC/TAW
REVIEWED BY: MCG
APPROVED BY: MCG
DATE: 08-04-25
SHEET NO.: C-2.1

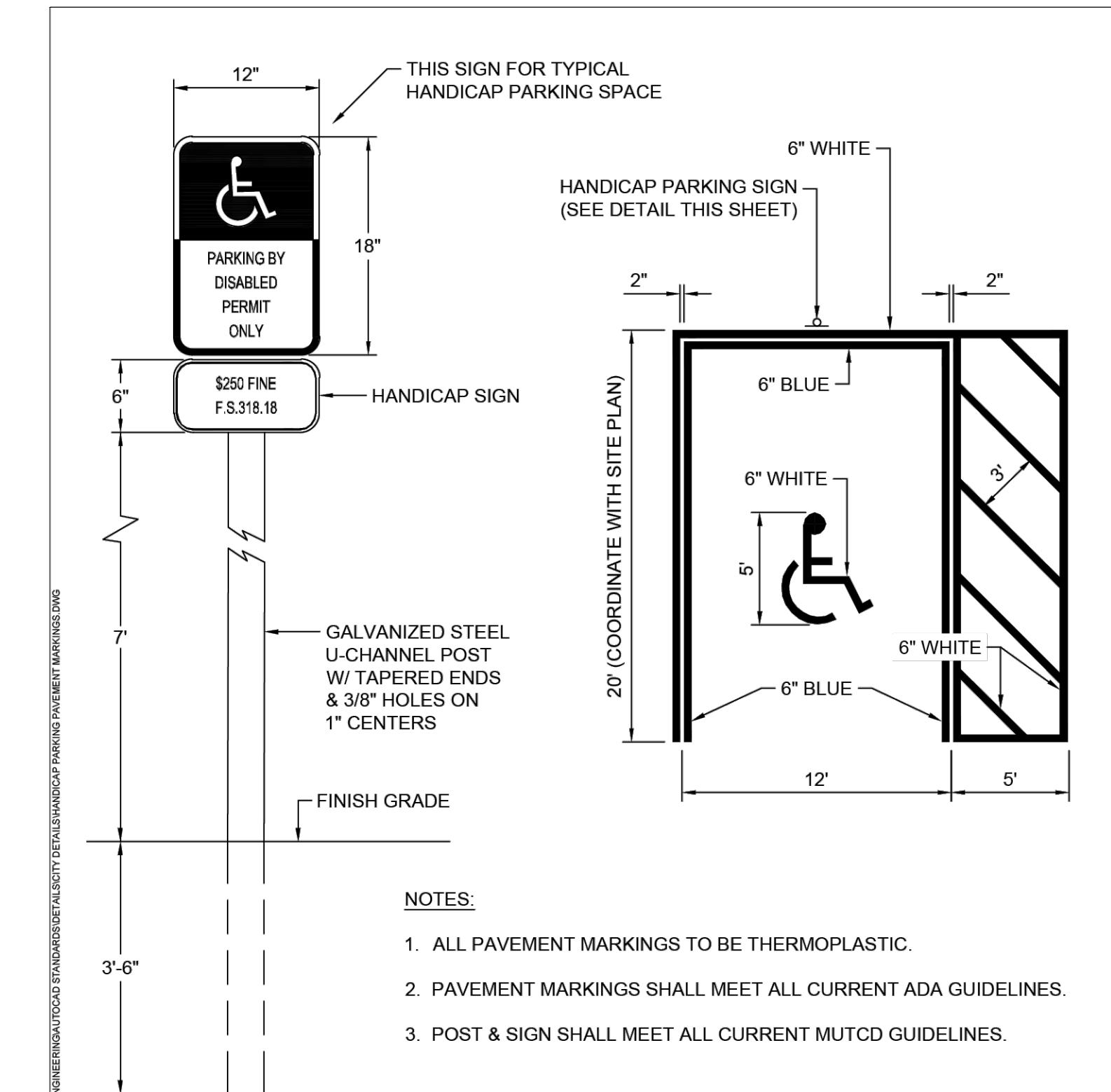
|| E:\Projects\Current Projects\ES 53 resurfacing\CAD\PLAN.dwg | ASI SAVED: Fri 08/25/10 10:00a PM OTTED: Fri 08/25/10 11a BY: twenga



TYPICAL FULL DEPTH PAVEMENT SECTION

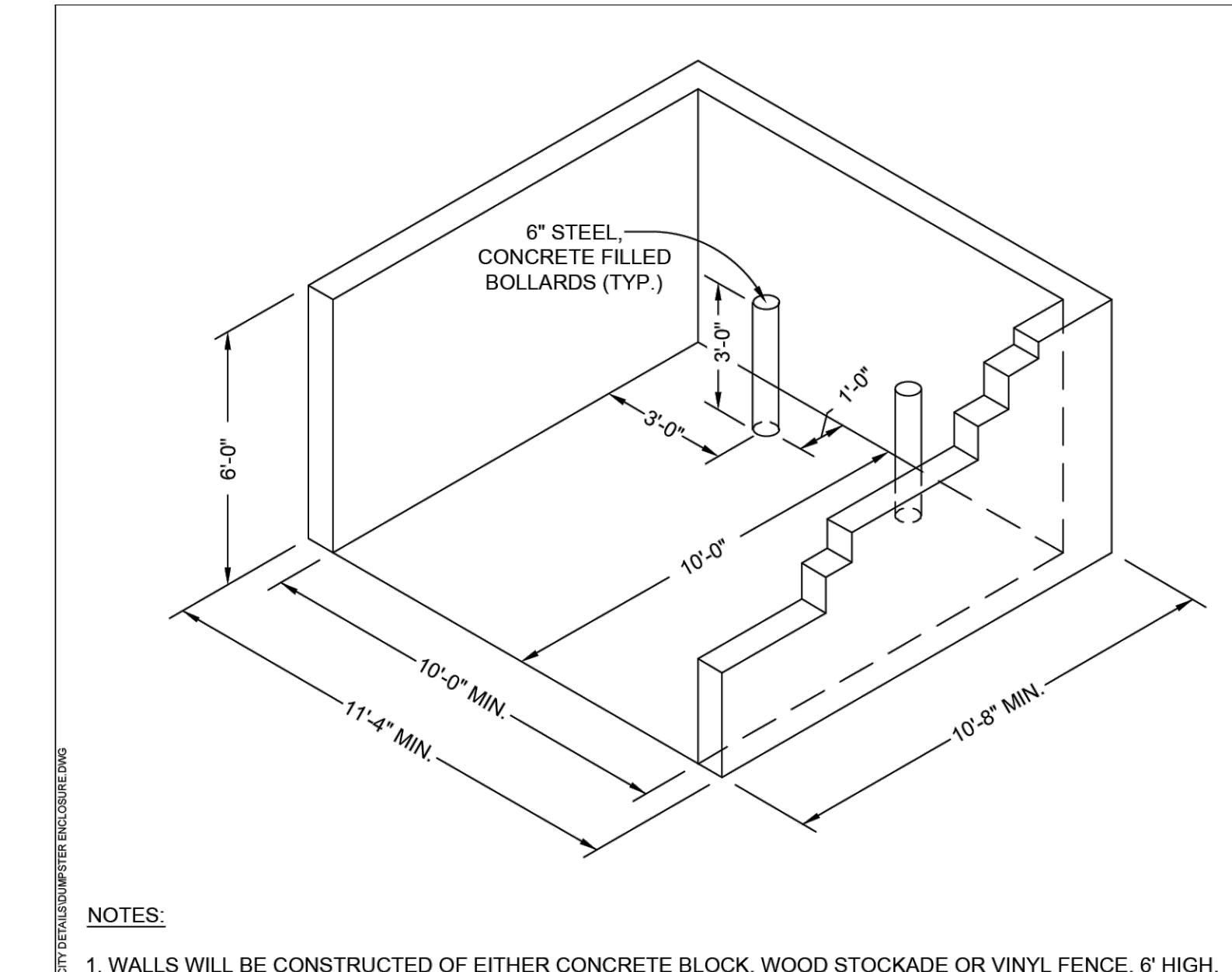
N.T

NOTE: AN OPTIONAL BASE
GROUP CAN BE INSTALLED
PER FDOT SPECIFICATION 283
AND UPON APPROVAL BY THE
CITY.



CITY OF SAFETY HARBOR

CITY OF SAFETY HARBOR		REVISIONS
Engineering Department	BY	DATE
750 Main Street, Safety Harbor, FL 34695	BD	11/01/2017
Phone (727) 724-1555	SS	05/25/2022
SCALE: N.T.S.		
DATE: OCTOBER 2015		
HANDICAP PARKING SIGN & PAVEMENT MARKINGS	DETAIL NUMBER: C14	



NOTE

1. WALLS WILL BE CONSTRUCTED OF EITHER CONCRETE BLOCK, WOOD STOCKADE OR VINYL FENCE, 6' HIGH.
2. SLAB IS TO BE A MINIMUM OF 6" THICK WITH 3,000 PSI CONCRETE REINFORCED WITH 6"x6" #10 WWF.
3. INSTALL DOUBLE SWING GATE FOR CLOSURE WITH MINIMUM 10' OPENING.
4. WALLS TO BE REINFORCED AT EACH CORNER WITH #4 VERTICAL BARS.
5. EACH CORNER CAVITY TO BE FILLED SOLID WITH 3,000 PSI CONCRETE.
6. ENCLOSURE IS FOR DUMPSTER ONLY. NO STORAGE.



	<h1>CITY OF SAFETY HARBOR</h1> <p>Engineering Department 750 Main Street, Safety Harbor, FL 34695 Phone (727) 724-1555</p>	
	REVISIONS	
	BY	DATE
	BD	11/10/2015
	SCALE: N.T.S.	
	DATE: NOVEMBER 2003	
<h2>DUMPSTER ENCLOSURE</h2> <p>MISC1</p>		

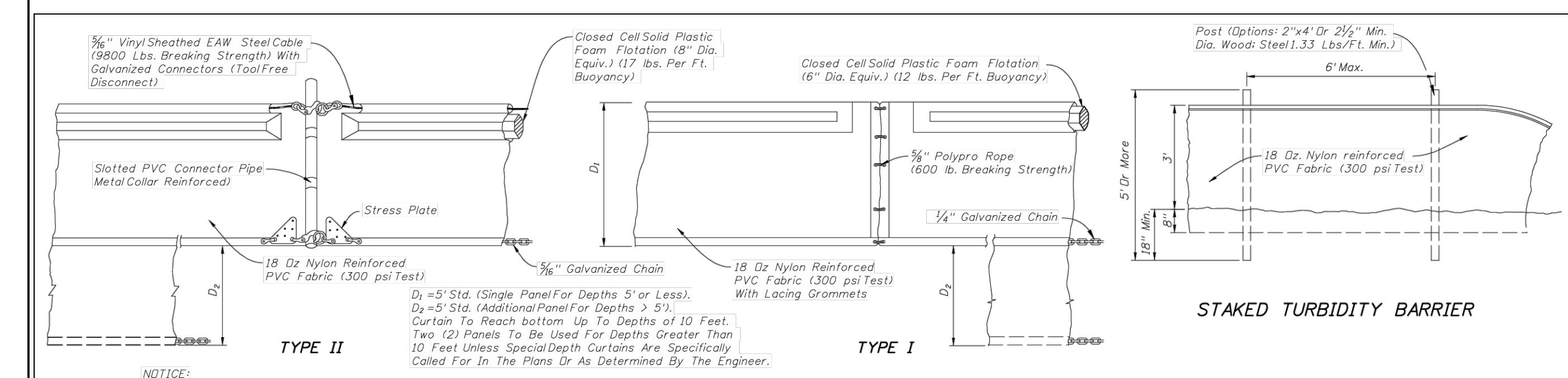


Know what's below.
Call before you dig.

Know what's below.
Call before you dig.

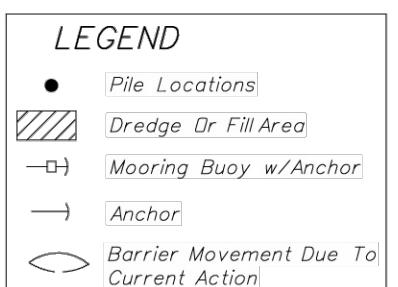
DRAWN BY:	JVC/TAW
DESIGNED BY:	JVC/TAW
REVIEWED BY:	MCG
APPROVED BY:	MCG
DATE:	08-04-25
SHEET NO.:	C-3.0

C-3.0



NOTICE:
COMPONENTS OF TYPES I AND II MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES I AND II SHALL BE APPROVED BY THE ENGINEER.

FLOATING TURBIDITY BARRIERS

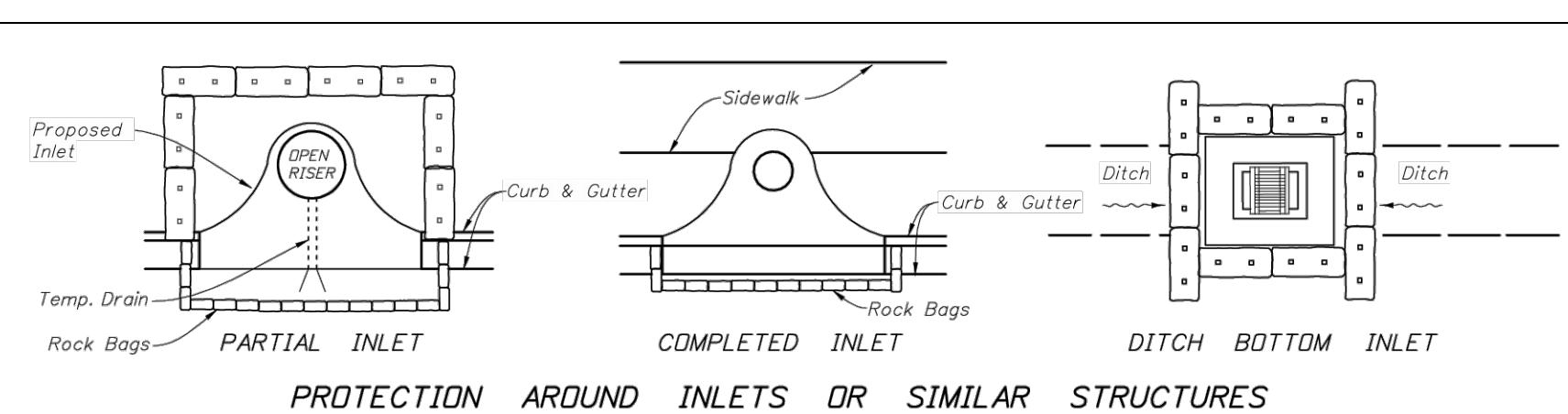


Notes:
1. Turbidity barriers are to be used in all permanent bodies of water regardless of water depth.
2. Number and spacing of anchors dependent on current velocities.
3. Deployment of barrier around pile locations may vary to accommodate construction operations.
4. Navigation may require segmenting barrier during construction operations.
5. For additional information see Section 104 of the Standard Specifications.

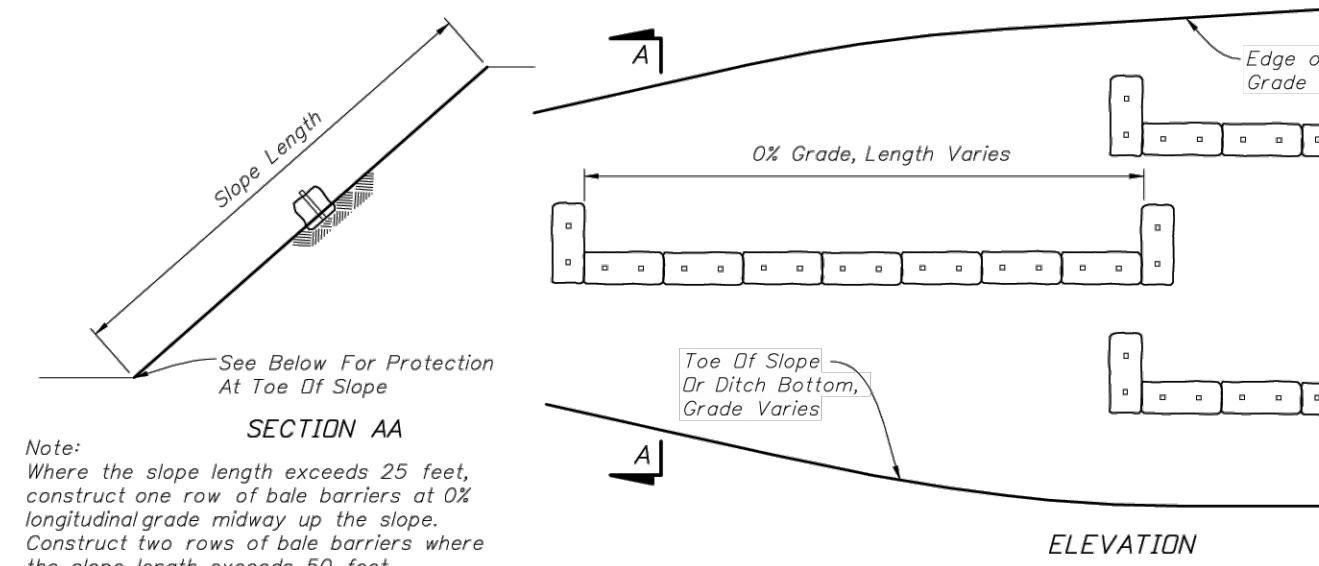
TURBIDITY BARRIER APPLICATIONS



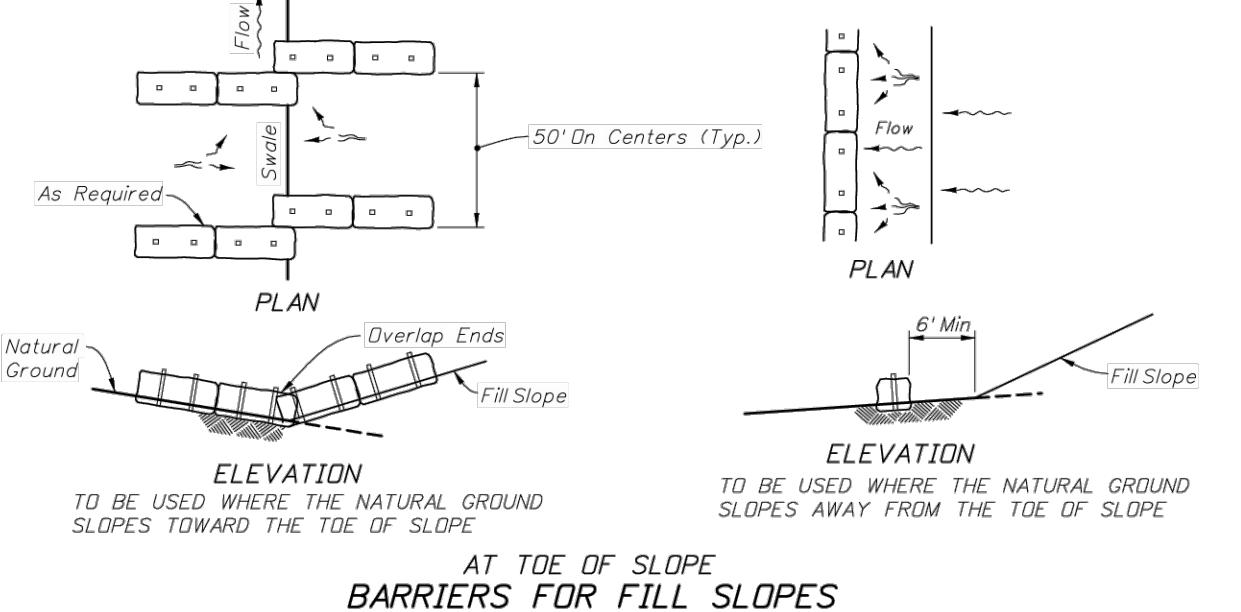
2010 FDOT Design Standards
Last Revision 07/01/07 Sheet No. 1 of 1
TURBIDITY BARRIERS
Index No. 103



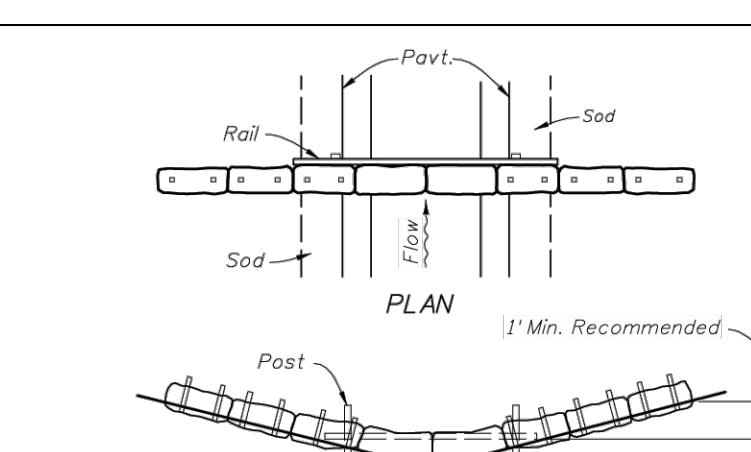
PROTECTION AROUND INLETS OR SIMILAR STRUCTURES



ALONG FILL SLOPE



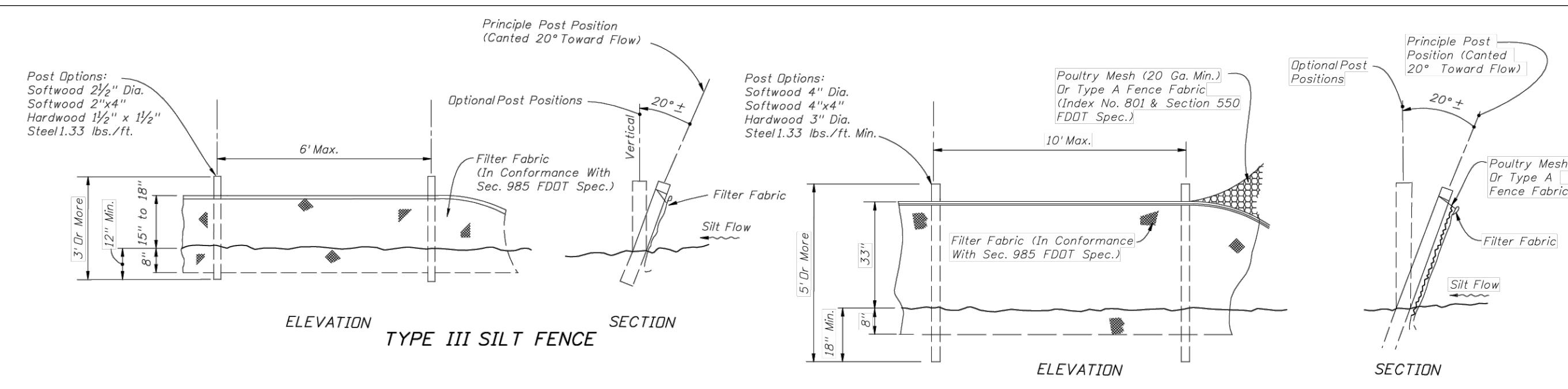
AT TOE OF SLOPE BARRIERS FOR FILL SLOPES



SYNTHETIC BALES OR BALE TYPE BARRIERS FOR PAVED DITCHES

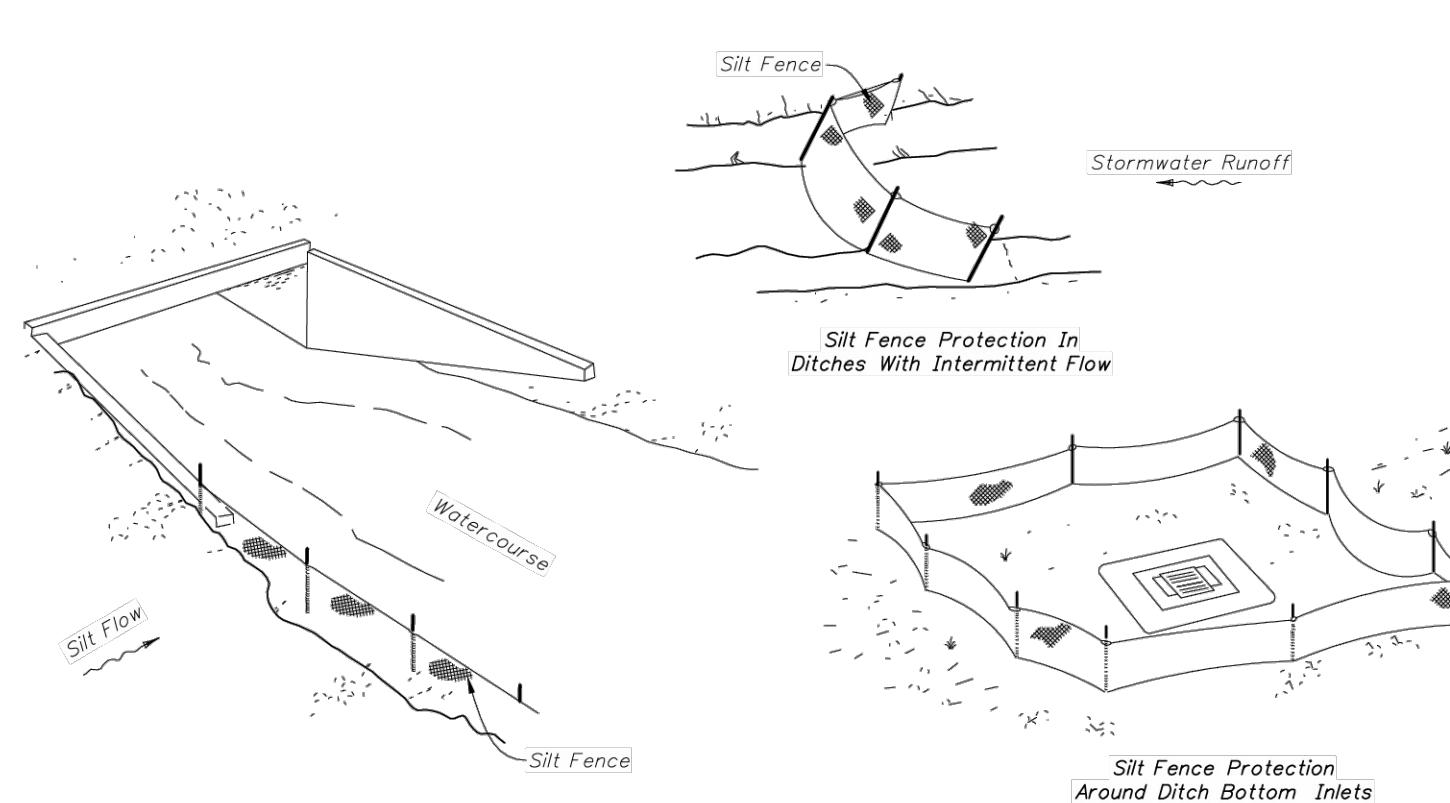
NOTES FOR SYNTHETIC BALES OR BALE TYPE BARRIERS

- Type I and II Synthetic Barrier should be spaced in accordance with Chart 1, Sheet 1.
- Bales shall be anchored with 2" x 2" (or 1" dia.) 4' wood stakes. Stakes of other material shape providing equivalent strength may be used if approved by the Engineer. Stakes other than wood shall be removed upon completion of the project.
- Rails and posts shall be 2" x 4" wood. Other materials providing equivalent strength may be used if approved by the Engineer.
- Adjacent bales shall be butted firmly together.
- Where in conjunction with silt fence, bales shall be placed on the upstream side of the fence.
- Bales to be paid for under the contract unit price for Synthetic Bales, LF. The unit price shall include the cost of filter fabric for Type I and II Barriers. Sandbags shall be paid for under the unit price for Sandbagging, CY. Rock bags to be paid for under the contract unit price for Rock Bags, EA.



TYPE III SILT FENCE SECTION

TYPE IV SILT FENCE SECTION



SILT FENCE APPLICATIONS

NOTES FOR SILT FENCES

- Type III Silt Fence to be used at most locations. Where used in ditches, the spacing for Type IV Silt fence shall be in accordance with Chart 1, Sheet 1.
- Type IV Silt Fence to be used where large sediment loads are anticipated. Suggested use is where fill slope is 1/2 or steeper and length of slope exceeds 25 feet. Avoid use where the detained water may back into travel lanes or off the right of way.
- Do not construct silt fences across permanent flowing watercourses. Silt fences are to be at upland locations and turbidity barriers used at permanent bodies of water.
- Where used as slope protection, Silt Fence is to be constructed on 0% longitudinal grade to avoid channelizing runoff along the length of the fence.
- Silt Fence to be paid for under the contract unit price for Staked Silt Fence, (LF).



CITY OF SAFETY HARBOR ENGINEERING DEPARTMENT

750 Main Street
Safety Harbor, FL 34695
Phone: (727) 724-1555
Fax: (727) 724-1556



FIRE STATION 53 PAVING AND PAVEMENT REHABILITATION



REV. NO.	DESCRIPTION	DATE

DRAWN BY: JVC/TAW
DESIGNED BY: JVC/TAW
REVIEWED BY: MCG
APPROVED BY: MCG
DATE: 08-04-25
SHEET NO.: C-3.1