

30% C O N S T R U C T I O N P L A N S

f o r

WEEKI WACHEE PRESERVE PARK

9.41 ACRES ±

HERNANDO COUNTY, FLORIDA

Project Number 21078

PREPARED FOR:

HERNANDO COUNTY PARKS & RECREATION

PREPARED BY:

Coastal Engineering
Planning
Surveying
Environmental
Construction Management
engineering associates, inc.
966 Candlelight Boulevard - Brooksville - Florida 34601
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EB-0000142

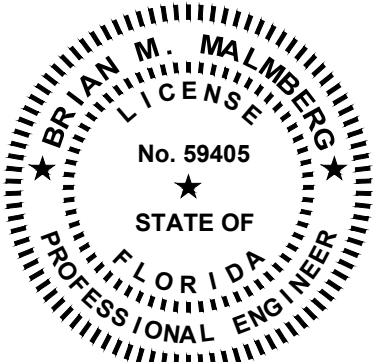
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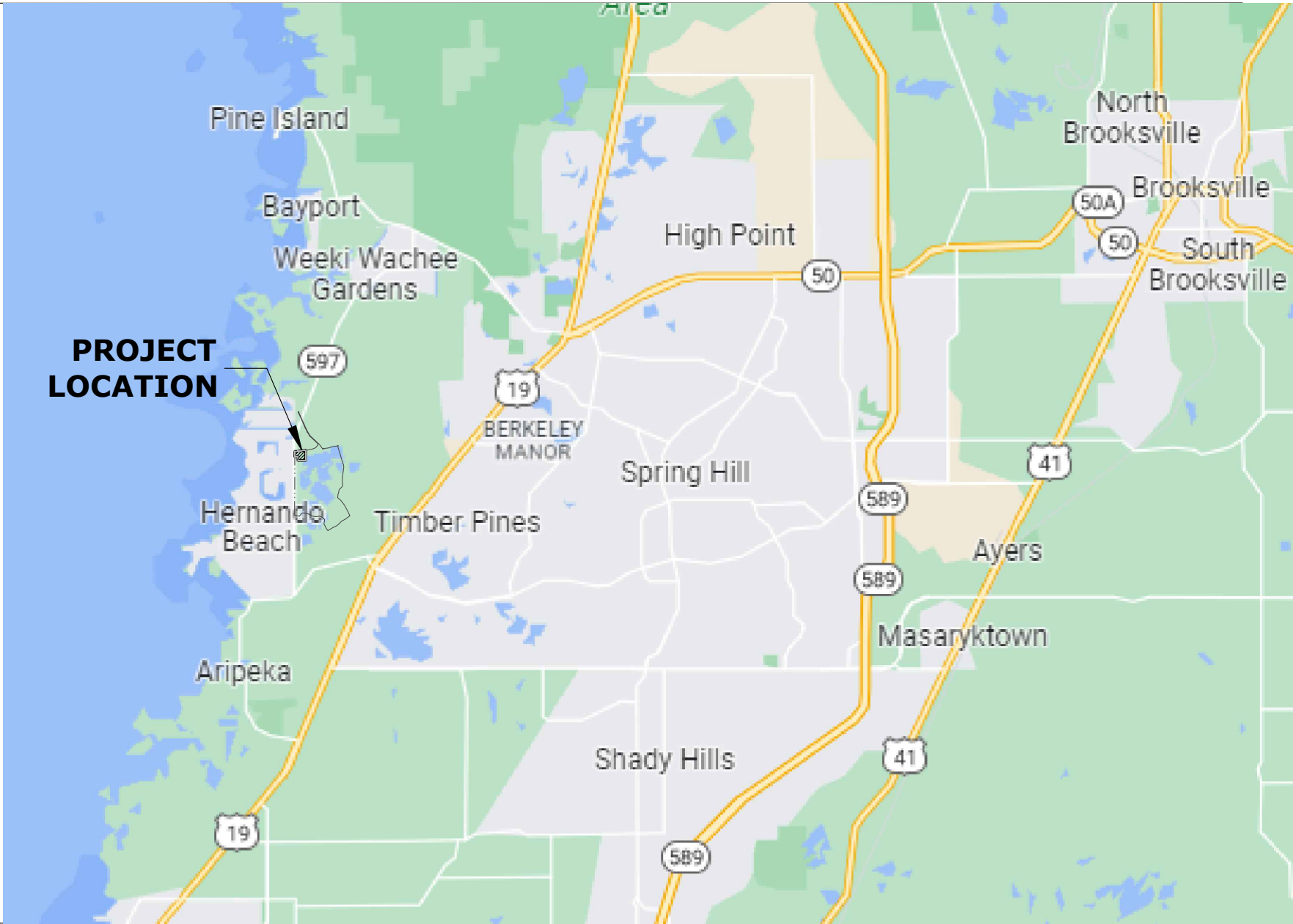
SITE DATA

OWNER/PERMITTEE:	HERNANDO COUNTY PARKS & RECREATION 16161 FLIGHT PATH DRIVE BROOKSVILLE, FL 34604
CONTACT:	ROB TALMAGE PHONE: (352) 754-4031 EMAIL: RTalmage@co.hernando.fl.us
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PARCEL KEY:	162086 & 376168
PARCEL ADDRESS:	4054 SHOAL LINE BLVD HERNANDO BEACH, FL 34607
EXISTING ZONING:	C1, C2-COMMERCIAL, CV-CONSERVATION
PROJECT AREA:	9.41 AC

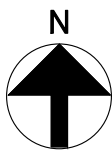
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DESIGN ENGINEER ., P.E., REGISTRATION NO. .



LOCATION MAP
N.T.S.
S/T/R
SEC.13 TWP 23 RNG 16
SEC.18 TWP 23 RNG 17



PLAN REVISIONS

DATE	REVISION NO.	REVISION	AGENCY	PERMIT TYPE	PERMIT NO.	EXP. DATE

AGENCY APPROVALS



LEGEND

- PROJECT BOUNDARY
- WEEKI WACHEE PRESERVE PARK AREA
- HERNANDO COUNTY PROPERTY

LOCATION MAP

WEEKI WACHEE PRESERVE PARK

MAJOR HIGHWAY
No. 99405
STATE OF
FLORIDA
PROFESSIONAL
ENGINEERING
No. 99405

Engineering
Planning
Surveying
Environmental
Transportation
Construction Management
Coastal
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DRAWING INVAID UNLESS SIGNED, DATED & SEALED BY REGISTERED PROFESSIONAL

DATE	REV.	BY	REV.	NO.	REVISION

SHEET

C-02

JOB No.: 21078

GENERAL CONSTRUCTION NOTES

1. BENCHMARK DATUM IS NAVD 1988.
2. THE CONTRACTOR SHALL PERFORM ALL CONSTRUCTION IN ACCORDANCE WITH THE LINES AND GRADES SHOWN ON THE PLANS AND TO TOLERANCES STATED HEREIN OR IN THE SPECIFICATIONS. REFER TO THE BOUNDARY AND TOPOGRAPHIC SURVEY FOR ADDITIONAL INFORMATION ON HORIZONTAL AND VERTICAL CONTROL.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL HORIZONTAL AND VERTICAL CONTROL MARKERS AND PROPERTY CORNERS (MONUMENTS, PIPES, ETC.) FOR THE DURATION OF CONSTRUCTION. MARKERS SHALL BE CONTINUOUSLY FLAGGED AND SHALL BE RESET IMMEDIATELY BY A FLORIDA LICENSED LAND SURVEYOR IF ANY SHOULD BECOME DISTURBED.
4. LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF THE PREPARATION OF THESE DRAWINGS AND DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES, ETC. AFFECTING HIS WORK PRIOR TO CONSTRUCTION.
5. THE CONTRACTOR SHALL REPLACE ALL PAVING, STABILIZED EARTH, DRIVEWAYS, SIDEWALKS, RETAINING WALLS, ETC. REMOVED OR DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COSTS WITH THE SAME MATERIAL REMOVED OR DAMAGED OR AS DIRECTED BY THE ENGINEER.
6. THE CONTRACTOR SHALL SATISFY HIMSELF AS TO POSSIBLE INCIDENTAL CONFLICTS WITH EXISTING STRUCTURES SUCH AS MAIL BOXES, SIGNS, FENCES, BILLBOARDS, ETC. AND SHALL INCLUDE IN HIS OVERALL COSTS THE REMOVAL AND OR REPLACEMENT AND PROTECTION OF SUCH INCIDENTAL ITEMS.
7. THE CONTRACTOR, PRIOR TO BIDDING THIS WORK, SHALL APPRAISE HIMSELF AS TO ALL ABOVE AND BELOW GROUND FEATURES THAT HE MAY ENCOUNTER DURING CONSTRUCTION AND INCLUDE INTO HIS OVERALL BID ALL COSTS FOR SPECIFIC CONSTRUCTION METHODS AND PROCEDURES THAT NEED TO BE TAKEN TO WORK AROUND SUCH APPURTENANCES.
8. THE CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO PROCEEDING WITH ANY SITE WORK WITH WHICH A CONFLICT HAS ARISEN DURING CONSTRUCTION OF ANY IMPROVEMENTS SHOWN ON THESE DRAWINGS.
9. ALL UPLAND CONSTRUCTION SHALL BE CARRIED OUT "IN THE DRY". THE CONTRACTOR SHALL REVIEW SITE CONDITIONS AND DETERMINE METHODS AND EXTENT OF DEWATERING NECESSARY AND SHALL INCLUDE COSTS OF DEWATERING IN THE BID. NO ADDITIONAL COMPENSATION SHALL BE PROVIDED FOR CONTROL OF GROUND OR SURFACE WATER OR FOR ADDITIONAL MATERIALS OR REWORK REQUIRED AS A RESULT OF INADEQUATE OR INSUFFICIENT DEWATERING.
10. ALL WORK TO BE PERFORMED FOR THE COMPLETION OF THIS PROJECT SHALL BE CONSTRUCTED ACCORDING TO THE BEST PRACTICES OF THE INDUSTRY AND IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND/OR COUNTY CODES, ORDINANCES, STANDARDS AND PERMIT CONDITIONS. FLORIDA BUILDING CODE (LATEST EDITION) AS APPLICABLE.

MINIMUM REQUIRED AS-BUILTS

GENERAL

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING A RECORD SURVEY(S) PREPARED AND SUBMITTED BY A FLORIDA LICENSED PROFESSIONAL SURVEYOR AND MAPPER INCLUDING ALL NEWLY CONSTRUCTED WORK, BUT NOT LIMITED TO, LOCATION AND FINISHED GRADE ELEVATIONS IN PAVED AND NON-PAVED AREAS SUFFICIENT TO DETERMINE DIRECTION OF SITE DRAINAGE AND ELEVATIONS OF RETENTION/DETENTION AREAS, MITIGATION AREAS AND DITCH/CHANNEL CONVEYANCES INCLUDING TOPS OF BANKS, TOES OF SLOPES, POND BOTTOMS AND WATER LEVELS, ELEVATIONS AND DIMENSIONS OF POND CONTROL STRUCTURES, SPILLWAYS AND UNDERDRAINS, DRAINAGE STRUCTURE GRATE/INLET/RIM ELEVATIONS, STORM PIPE SIZES, PIPE MATERIALS, AND PIPE INVERTS, PLUS LOCATIONS, DIMENSIONS AND ELEVATIONS OF ALL OTHER CONSTRUCTION COMPONENTS WHICH VARY FROM THE DESIGN. UTILITY INFORMATION SHALL INCLUDE LOCATION OF WATER LINE CONNECTIONS, VALVES, BENDS, METERS AND ELEVATIONS OF PIPES WHERE DEPTH OF COVER VARIES FROM DESIGN; TIES TO SANITARY SEWER LINES, MANHOLE RIM AND INVERT ELEVATIONS, CLEANOUTS AND SERVICE CONNECTIONS.
2. ALL DIMENSIONS SHALL BE IN FEET DIMENSIONED OFF CENTERLINE OF ROADS OR OTHER PERMANENT STRUCTURES. IF ONLY ONE DIMENSION CAN BE TAKEN OFF THE CENTERLINE OF ROAD, THE SECOND SHALL BE OFF A PERMANENT MARKER OR REFERENCE POINT.
3. FOUR (4) SETS OF 24X36 SIGNED AND SEALED AS-BUILT DRAWINGS, ONE (1)CD WITH AUTOCAD AND ADOBE PDF'S OF ALL SHEETS SHALL BE SUBMITTED TO THE ENGINEER UPON COMPLETION OF THE PROJECT.

TECHNICAL SPECIFICATIONS

ALL SITE AND UTILITY WORK PERFORMED ON THIS PROJECT SHALL BE GOVERNED BY THE APPLICABLE PROVISIONS OF HERNANDO COUNTY. IN ADDITION, THE FOLLOWING STANDARDS ARE INCORPORATED BY REFERENCE:

1. STANDARD FOR DESIGN AND CONSTRUCTION OF WATER, WASTEWATER, AND RECLAIMED WATER FACILITIES FOR HERNANDO COUNTY, LATEST EDITION.
2. FLORIDA DEPARTMENT OF TRANSPORTATION "ROADWAY AND TRAFFIC DESIGN STANDARDS", LATEST EDITION.
3. FLORIDA DEPT. OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION.
4. MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.
5. HERNANDO COUNTY DEPARTMENT OF PUBLIC WORKS / ENGINEERING FACILITY DESIGN GUIDELINES, LATEST EDITION.

HERNANDO COUNTY NOTES

1. A RIGHT-OF-WAY USE PERMIT IS REQUIRED FOR ANY WORK IN COUNTY RIGHT-OF-WAY. APPROVED CONSTRUCTION PLANS AND MOT PLANS ARE REQUIRED TO APPLY FOR THE PERMIT.
2. THE CONTRACTOR IS TO SCHEDULE A PRE-CONSTRUCTION MEETING FIVE (5) BUSINESS DAYS PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR MUST PROVIDE ALL RIGHT-OF-WAY SUBMITTALS TO DPW INSPECTOR FOR REVIEW AND APPROVAL A MINIMUM OF THREE (3) BUSINESS DAYS PRIOR TO PRE-CONSTRUCTION MEETING.
3. CONTRACTOR TO NOTIFY DPW INSPECTOR 48 HOURS PRIOR TO CONSTRUCTION IN THE COUNTY RIGHT-OF-WAY. DPW INSPECTOR MUST BE PRESENT FOR ALL PAVING / PAVING ON COUNTY OWNED INFRASTRUCTURE. CONTACT DPW INSPECTORS AT 352-754-4060 OR EMAIL TO DPWRESOURCEOBJECT@HERNANDOCOUNTY.US
4. CONTRACTOR SHALL PROVIDE 24 HOUR NOTICE TO LOCAL EMERGENCY SERVICES DEPARTMENTS WHENEVER CONSTRUCTION ACTIVITIES ARE EXPECTED TO IMPEDE NORMAL TRAFFIC FLOW.

ENVIRONMENTAL PROTECTION NOTES

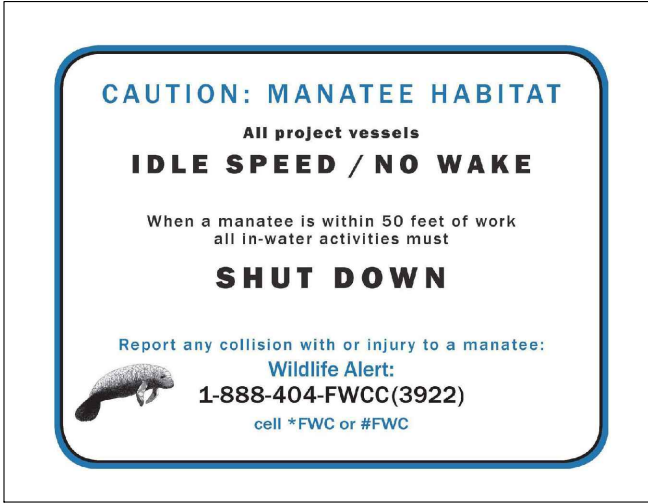
1. CONSTRUCTION EQUIPMENT SHALL NOT BE OPERATED IN WETLAND AREAS UNLESS SUCH CONSTRUCTION PRACTICES ARE APPROVED IN A PLAN OF OPERATION SUBMITTED TO THE ENGINEER & THE APPROPRIATE REGULATORY AUTHORITIES. WHERE CONSTRUCTION IS NECESSARY ACROSS OR ADJACENT TO WETLAND JURISDICTIONAL AREAS, SILT BARRIERS SHALL BE INSTALLED AS SHOWN ON THE PLANS. SILT BARRIERS SHALL BE CONSIDERED LIMITS OF CONSTRUCTION WITHIN OR ADJACENT TO JURISDICTIONAL AREAS.
2. CONSTRUCTION SHALL PROCEED SUCH THAT ALL STORMWATER FACILITIES WITHIN A WATERSHED AREA ARE IN PLACE AND OPERATIONAL PRIOR TO CONSTRUCTION OF IMPERVIOUS SURFACES WITHIN THAT AREA.
3. STAKED OR FLOATING SILT SCREENS OR SYNTHETIC HAY BALES, AS APPROPRIATE, SHALL BE UTILIZED AS SILT BARRIERS AND PLACED IN LOCATIONS SHOWN ON THE PLANS AND AT OTHER LOCATIONS AS REQUIRED TO KEEP SEDIMENT FROM REACHING WATER BODIES OR WETLAND AREAS. ONCE CONSTRUCTION IS COMPLETE AND FINISH GRADING / STABILIZATION HAS BEEN ACHIEVED, SILT BARRIERS SHALL BE COMPLETELY REMOVED TO THE SATISFACTION OF THE OWNER AND PRIOR TO FINAL ACCEPTANCE.
4. ALL FUGITIVE DUST SHALL BE CONTROLLED ON SITE. ONLY AREAS SCHEDULED FOR IMMEDIATE CONSTRUCTION SHALL BE CLEARED OR STRIPPED OF VEGETATION. WATERING OR OTHER PRIOR APPROVED MEANS OF DUST CONTROL SHALL BE EMPLOYED TO PREVENT THE EMANATION OF DUST FROM THE SITE. PERMANENT GRASSING, LANDSCAPING AND OTHER SITE WORK SHALL BE INITIATED AS SOON AS POSSIBLE.
5. ALL WATER COLLECTED AND PUMPED DURING TRENCH DEWATERING ACTIVITIES SHALL BE DISPOSED OF IN UPLAND AREAS INTO DOUBLE STAKED HAY BALES. DISCHARGE LOCATIONS SHALL BE A MINIMUM OF 75 FEET FROM THE NEAREST SURFACE WATER BODY OR WETLAND AREA, TO ALLOW FOR MAXIMUM OVERLAND FILTRATION OF SOIL PARTICLES.
6. TEMPORARY STOCKPILES SHALL NOT BE LOCATED ADJACENT TO UNDISTURBED WETLANDS. ADDITIONALLY, STOCKPILES TO REMAIN FOR LONGER THAN 24 HOURS SHALL BE CONFINED BY SILT BARRIERS WHICH PREVENT RUNOFF SEDIMENTATION FROM ENCRACHING UPON WETLAND AREAS OR SURFACE WATER BODIES. STOCKPILES IN PLACE AND UNTOUCHED FOR 7 DAYS OR MORE TO HAVE VEGETATIVE COVER TO PREVENT WIND EROSION AND SEDIMENT DISPERSAL.
7. ALL TRASH AND CONSTRUCTION DEBRIS PRODUCED FROM THIS PROJECT SHALL BE COLLECTED BY THE CONTRACTOR DAILY. THESE MATERIALS SHALL BE STAGED OR CONTAINERIZED AS NECESSARY TO PREVENT ACCIDENTAL RELEASE. DISPOSAL OF SOLID WASTE MATERIALS SHALL BE IN ACCORDANCE WITH APPLICABLE MUNICIPAL, COUNTY AND STATE REGULATIONS.
8. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING PORTABLE SANITARY WASTE UNITS ON-SITE FOR USE BY HIS EMPLOYEES DURING CONSTRUCTION.
9. THE CONTRACTOR SHALL MAINTAIN CONTROL OF ANY HAZARDOUS MATERIALS UTILIZED ON-SITE FOR CONSTRUCTION. STORAGE CONTAINERS, VEHICLES, ETC. WILL BE INSPECTED REGULARLY FOR LEAKAGE. A SPILL PREVENTION PLAN SHALL BE ESTABLISHED WHICH COVERS CLEANUP AND NOTIFICATION OF APPROPRIATE GOVERNMENT AGENCIES.
10. CONTRACTOR SHALL NOT REMOVE TREES WITHOUT APPROVAL OF THE LOCAL GOVERNING JURISDICTION. TREE PROTECTION SHALL BE IN ACCORDANCE WITH LOCAL GOVERNING AUTHORITY.
11. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING SITE EROSION AND SHALL NOT UNNECESSARILY REMOVE EXISTING VEGETATION OR ALTER EXISTING TOPOGRAPHY. THE CONTRACTOR SHALL PROVIDE ADDITIONAL SOD, SYNTHETIC HAY BALES, SAND BAGS OR SEED & MULCH, AS NECESSARY, TO ACHIEVE AN EROSION-FREE SITE (FREE FROM RUTTING, ETC.) TO THE LINES AND GRADES SHOWN IN THE PLANS UNTIL FINAL ACCEPTANCE. ALL SWALES AND SURFACES 4:1 OR STEEPER SHALL BE SODDED. ALL OTHER UNPAVED SURFACES WHICH EXPERIENCE UNDOE EROSION THAT CANNOT BE CONTROLLED BY OTHER MEASURES SHALL BE SODDED. ALL SOD SHALL BE ARGENTINE BAHIA UNLESS SPECIFICALLY SHOWN OTHERWISE IN THE CONTRACT DOCUMENTS. ALL SODDED SLOPES OVER 4:1, SHALL BE INSTALLED WITH SOD PEGS.
12. SOIL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED PRIOR TO CONSTRUCTION, MAINTAINED THROUGHOUT CONSTRUCTION AND UNTIL THE SITE IS PERMANENTLY STABILIZED. SEE SWMP / CSWMP NOTES AND DETAIL SHEETS FOR ADDITIONAL INFORMATION.
13. THE REMOVAL OF LITTORAL SHELF VEGETATION (INCLUDING CATTAILS) FROM WET DETENTION PONDS IS PROHIBITED UNLESS OTHERWISE APPROVED BY THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT (SWFWMD). REMOVAL INCLUDES DREDGING, THE APPLICATION OF HERBICIDES, CUTTING AND THE INTRODUCTION OF GRASS CARP. ANY QUESTIONS REGARDING AUTHORIZED ACTIVITIES WITH THE WET DETENTION PONDS SHALL BE ADDRESSED TO THE REGULATION MANAGER OF SWFWMD'S LOCAL OFFICE.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF TEMPORARY SEDIMENT/EROSION CONTROL DEVICES WHEN NO LONGER NEEDED.

SPECIAL NOTES TO CONTRACTORS

1. WHERE TREE REMOVAL IS REQUIRED DUE TO CONSTRUCTION, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN A TREE REMOVAL PERMIT. THE COST FOR THIS PERMIT SHALL BE THE ACTUAL PERMIT FEE. THE PERMIT SHALL BE INCLUDED IN THE CONTRACTOR'S OVERALL COSTS. TREE REMOVAL AND PROTECTION SHALL COMPLY WITH APPLICABLE CITY AND COUNTY CODES.
2. UNLESS SPECIFIED OTHERWISE, CONTRACTOR SHALL FURNISH AND INSTALL ALL PROPOSED ITEMS SHOWN WITHIN THE CONSTRUCTION PLANS.
3. CONSTRUCTION EQUIPMENT AND MATERIAL TRANSPORT / STAGING SHALL BE LIMITED TO THE AREA SHOWN ON THE CONSTRUCTION PLANS.
4. CONSTRUCTION EQUIPMENT AND MATERIAL TRANSPORT / STAGING IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE ACCESS TO THE CLOSEST OPEN SPACE OWNED AND AVAILABLE FOR THE CONTRACTOR'S USE; HOWEVER, THE SITE MAY NOT BE CONTIGUOUS TO THE PROJECT AREA OR OF SUFFICIENT SIZE TO ACCOMMODATE THE ENTIRE PROJECT INVENTORY OF MATERIALS / EQUIPMENT.
5. CONTRACTOR SHALL COMPILE A PRE-CONSTRUCTION VIDEO FOR THE SITE. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR/REPLACEMENT OF ANY DAMAGE TO FACILITIES CAUSED BY CONSTRUCTION OR CONSTRUCTION TRAFFIC.
6. ALL EQUIPMENT AND MATERIALS (INCLUDING EXCESS FILL) TO BE REMOVED OR DEMOLISHED DURING THE CONSTRUCTION PROCESS, UNLESS NOTED TO BE SALVAGED, SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
7. A NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT IS NOT PART OF THE PERMITTING OBTAINED WITH THIS PLAN SET. THEREFORE, THE CONTRACTOR IS ADVISED THAT AN NPDES CONSTRUCTION PERMIT MAY BE REQUIRED FOR THIS PROJECT AND THAT THE CONTRACTOR IS RESPONSIBLE FOR APPLYING FOR AND ADHERING TO THIS PERMIT. REFER TO SUBSECTION 62-621., F.A.C. FOR ADDITIONAL INFORMATION. THE INFORMATION PROVIDED IN THE SWMP NOTES AND DETAILS SHEETS ARE FOR COMPLIANCE WITH ENVIRONMENTAL RESOURCE PERMITTING UNDER CHAPTER 62-333, F.A.C. AND MAY BE USED AS A REFERENCE FOR COMPLIANCE WITH NPDES PERMITTING BUT ARE NOT NECESSARILY INCLUSIVE OF ALL NPDES REQUIREMENTS.
8. HERNANDO COUNTY HAS AN NPDES ORDINANCE REQUIRING COMPLIANCE ON ALL CONSTRUCTION SITES. (CH. 28, ARTICLE X, SEC. 28-341 TO 403)
9. CONSTRUCTION ACTIVITIES WILL TAKE PLACE IN AN ACTIVE DRAINAGE (SURFACE WATER) FEATURE. CONTRACTOR IS RESPONSIBLE TO SEQUENCE THE WORK, PROVIDE TEMPORARY CHANNEL DIVERSIONS, BERMS, COFFERDAMS, AND/OR PUMPING IN ORDER TO ACCOMPLISH THE WORK. ADDITIONALLY, EROSION AND SEDIMENT CONTROL DEVICES NECESSARY TO PREVENT OFFSITE DISCHARGE ARE ALSO REQUIRED.
10. A GEOTECHNICAL REPORT WAS PERFORMED BY TIERRA FINDINGS OF THEIR SUBSURFACE INVESTIGATION AND RECOMMENDATIONS ARE PROVIDED IN THEIR REPORT DATED JANUARY 23, 2023. THE REPORT AND THEIR RECOMMENDATIONS ARE PART OF THE CONTRACT DOCUMENTS. CONTRACTOR TO READ AND FOLLOW THIS REPORT. HERNANDO COUNTY TO PROVIDE A GEOTECHNICAL ENGINEER TO PROVIDE OBSERVATION AND TESTING OF RELATED CONSTRUCTION ACTIVITIES.
11. THE CONSULTANT, COASTAL ENGINEERING ASSOCIATES, INC., ASSUMES NO LIABILITY OR RESPONSIBILITY FOR THE GEOTECHNICAL RESULTS SHOWN ON THESE PLANS. A FULL REPORT IS AVAILABLE FROM THE ENGINEER.
12. RECOMMEND THAT THE CONTRACTOR DETERMINE THE ACTUAL GROUNDWATER LEVELS AND SURFICIAL WATER FLOW LEVELS AT THE TIME OF THE CONSTRUCTION TO DETERMINE THE IMPACT OF THE GROUNDWATER AND SURFACE WATER FLOW ON THE PROPOSED CONSTRUCTION PROCEDURE. CONSIDERING THE PROJECT CONSISTS OF IMPROVEMENTS TO AN EXISTING/OPERATING DITCH, THE CONTRACTOR SHOULD HAVE QUALIFIED EXPERIENCE (DEWATERING, CONTROLLING SEEPAGE FORCES, AND GENERAL GROUNDWATER CONTROL) WITH SIMILAR TYPE PROJECTS.

GENERAL NOTES

1. STAKE OUT IN FIELD PRIOR TO BEGINNING WORK. SCHEDULE A FIELD MEETING WITH COUNTY STAFF AND ENGINEER TO APPROVED STAKED LOCATION. SOME FIELD ADJUSTMENT MAY OCCUR.
2. CONTRACTOR TO PROVIDE SUBMITTALS FOR APPROVAL ON ALL MATERIALS PRIOR TO CLEARING.
3. CONTRACTOR SHALL INSTALL SILT FENCE AND TURBIDITY BARRIERS PRIOR TO ANY CONSTRUCTION.
4. CONTRACTOR SHALL INSPECT AND SURVEY THE CONDITION OF THE EXISTING STRUCTURES, PRE AND POST CONSTRUCTION.
5. CONTRACTOR TO MONITOR VIBRATION LEVELS DURING THE OPERATION OF ANY EQUIPMENT CAUSING VIBRATION INCLUSIVE OF TIMBER PILE DRIVING AND EMBANKMENT COMPACTION.
6. THE CONTRACTOR SHALL PROVIDE AN EROSION, SEDIMENTATION, AND POLLUTION PREVENTION PLAN, AND PROVIDE CONTROL DEVICES INCLUDING MONITORING, REPORTING, AND MAINTENANCE.
7. THE FOLLOWING FEDERALLY AND STATE LISTED ANIMAL SPECIES COULD INHABIT OR MIGRATE THROUGH THE CONSTRUCTION AREA: WEST INDIAN MANATEE, AND MARINE TURTLES. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL AND STATE REQUIREMENTS REGARDING ENDANGERED AND THREATENED SPECIES AND STATE LISTED SPECIES OF SPECIAL CONCERN. SHOULD THESE SPECIES BE ENCOUNTERED, THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER WITHIN 24 HOURS OF EACH ENCOUNTER.
8. ANY PUBLIC OR PRIVATE PROPERTY DAMAGED BY THE CONTRACTOR OR ANY SUB-CONTRACTOR SHALL BE RESTORED TO ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
9. CONSTRUCTION WORK HOURS SHALL BE FROM 7:00 AM TO SUNSET SEVEN DAYS A WEEK.
10. CONTRACTOR SHALL ADHERE TO ALL PERMIT REQUIREMENTS AND FEDERAL, STATE, AND LOCAL REGULATIONS.



STANDARD MANATEE CONDITIONS FOR IN-WATER WORK

THE PERMITTEE SHALL COMPLY WITH THE FOLLOWING CONDITIONS INTENDED TO PROTECT MANATEES FROM DIRECT PROJECT EFFECTS:

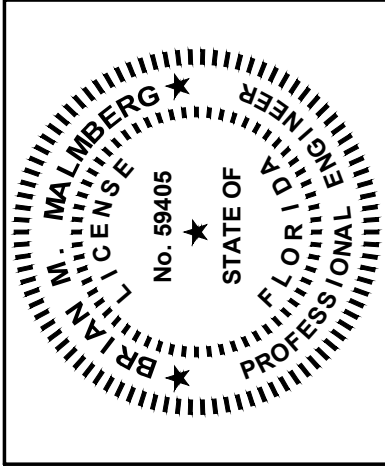
- a. ALL PERSONNEL ASSOCIATED WITH THE PROJECT SHALL BE INSTRUCTED ABOUT THE PRESENCE OF MANATEES AND MANATEE SPEED ZONES, AND THE NEED TO AVOID COLLISIONS WITH AND INJURY TO MANATEES. THE PERMITTEE SHALL ADVISE ALL CONSTRUCTION PERSONNEL THAT THERE ARE CIVIL AND CRIMINAL PENALTIES FOR HARMING, HARASSING, OR KILLING MANATEES WHICH ARE PROTECTED UNDER THE MARINE MAMMAL PROTECTION ACT, THE ENDANGERED SPECIES ACT, AND THE FLORIDA MANATEE SANCTUARY ACT.
- b. ALL VESSELS ASSOCIATED WITH THE CONSTRUCTION PROJECT SHALL OPERATE AT "IDLE SPEED/NO WAKE" AT ALL TIMES WHILE IN THE IMMEDIATE AREA AND WHILE IN THE WATER WHERE THE DRAFT OF THE VESSEL PROVIDES LESS THAN A FOUR-FOOT CLEARANCE FROM THE BOTTOM. ALL VESSELS WILL FOLLOW ROUTES OF DEEP WATER WHENEVER POSSIBLE.
- c. SILTATION OR TURBIDITY BARRIERS SHALL BE MADE OF MATERIAL IN WHICH MANATEES CANNOT BECAME ENTANGLED, SHALL BE PROPERLY SECURED, AND SHALL BE REGULARLY MONITORED TO AVOID MANATEE ENTANGLEMENT OR ENTRAPMENT. BARRIERS MUST NOT IMPEDE MANATEE MOVEMENT.
- d. ALL ON-SITE PROJECT PERSONNEL ARE RESPONSIBLE FOR OBSERVING WATER-RELATED ACTIVITIES FOR THE PRESENCE OF MANATEE(S). ALL IN-WATER OPERATIONS, INCLUDING VESSELS, MUST BE SHUT-DOWN IF A MANATEE(S) COMES WITHIN 50 FEET OF THE OPERATION. ACTIVITIES WILL NOT RESUME UNTIL THE MANATEE(S) HAS MOVED BEYOND THE 50-FOOT RADIUS OF THE PROJECT OPERATION, OR UNTIL 30 MINUTES ELAPSES IF THE MANATEE(S) HAS NOT REAPPEARED WITHIN 50 FEET OF THE OPERATION. ANIMALS MUST NOT BE HERDED AWAY OR HARASSED INTO LEAVING.
- e. ANY COLLISION WITH OR INJURY TO A MANATEE SHALL BE REPORTED IMMEDIATELY TO THE FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC) HOTLINE AT 1-888-404-3922. COLLISION AND/OR INJURY SHOULD ALSO BE REPORTED TO THE U.S. FISH AND WILDLIFE SERVICE IN JACKSONVILLE (1-904-731-3336) FOR NORTH FLORIDA OR VERO BEACH (1-772-562-3909) FOR SOUTH FLORIDA, AND TO FWC AT ImperiledSpecies@myFWC.com
- f. TEMPORARY SIGNS CONCERNING MANATEES SHALL BE POSTED PRIOR TO AND DURING ALL IN-WATER PROJECT ACTIVITIES. ALL SIGNS ARE TO BE REMOVED BY THE PERMITTEE UPON COMPLETION OF THE PROJECT. TEMPORARY SIGNS THAT HAVE ALREADY BEEN APPROVED FOR THIS USE BY THE FWC MUST BE USED. ONE SIGN WHICH READS CAUTION: BOATERS MUST BE POSTED. A SECOND SIGN MEASURING AT LEAST 8" x 11" EXPLAINING THE REQUIREMENTS FOR "IDLE SPEED/NO WAKE" AND THE SHUT DOWN OF IN-WATER OPERATIONS MUST BE POSTED IN A LOCATION PROMINENTLY VISIBLE TO ALL PERSONNEL ENGAGED IN WATER-RELATED ACTIVITIES. THESE SIGNS CAN BE VIEWED AT MyFWC.com/manatee. QUESTIONS CONCERNING THESE SIGNS CAN BE SENT TO THE EMAIL ADDRESS LISTED ABOVE.

PRE-CONSTRUCTION VIDEO

1. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT TO PERFORM COLOR AUDIO-VIDEO RECORDING OF THE PROJECT SITE SURFACES AS SPECIFIED HEREIN. CONTRACTOR SHALL FURNISH TO THE OWNER A COPY OF A CONTINUOUS COLOR AND AUDIO-VIDEO DVD RECORDING OF THE PROJECT SITE.
2. THE OWNER RESERVES THE RIGHT TO REJECT THE AUDIO-VIDEO DVD BECAUSE OF POOR QUALITY, UNINTELLIGIBLE AUDIO OR UNCONTROLLED PAN OR ZOOM. ANY VIDEO REJECTED BY THE OWNER SHALL BE RE-VIDEOED AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL SUBMIT ONE (1) DVD TO THE OWNER FOR FORMAT AND CONTENT APPROVAL PRIOR TO THE START OF ANY WORK.
3. **EXECUTION:** PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION, EQUIPMENT OR MATERIAL MOBILIZATION, THE CONTRACTOR SHALL PERFORM AN AUDIO-VIDEO SURVEY OF THE PROJECT SITE AREA INCLUDING THE ENTIRE PARK AREA AND ANY AREA WHICH HAS THE POTENTIAL TO BE DISTURBED BY THE CONTRACTOR'S OPERATIONS. SPECIFIC AREAS OF THIS PROJECT INCLUDE, BUT ARE NOT LIMITED TO:
 - a. ALL AREAS TO BE ENTERED BY VEHICLES OR EQUIPMENT, INCLUDING CREEK AREAS TO BE ACCESS BY THE WATERWAYS.
 - b. AREAS AND STRUCTURES (i.e. PIERS, DOCKS, BRIDGES, ETC) TO BE REMOVED AND RECONSTRUCTED.
 - c. PAVED AND UNPAVED AREAS WHICH WILL BE ENTERED BY VEHICLES OR EQUIPMENT.
 - d. OTHER AREAS THAT MAY BE IMPACTED BY THE WORK, INCLUDING WORK STAGING AREAS AND FIELD OFFICES, AS DIRECTED BY THE OWNER.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TIMELY EXECUTION OF THE PRE-CONSTRUCTION AUDIO-VIDEO SURVEY, ITS VANTAGE POINTS, AND QUALITY. THE CONTRACTOR SHALL COOPERATE WITH THE PHOTOGRAPHER'S WORK AND PROVIDE REASONABLE AUXILIARY SERVICES AS REQUESTED, INCLUDING ACCESS AND USE OF TEMPORARY FACILITIES INCLUDING TEMPORARY LIGHTING.
5. SUBMITTED DVD'S SHALL BE REVIEWED AND APPROVED BY THE OWNER WITHIN FIVE (5) DAYS OF SUBMITTAL OF A SATISFACTORY SURVEY. SHOULD THE DVD NOT PROVIDE ADEQUATE COVERAGE TO FULLY ILLUSTRATE THE PHYSICAL CONDITION OF THE WORK AREA OR NOT BE IN COMPLIANCE WITH THE SPECIFICATIONS, PROJECT AREAS SHALL BE RE-SURVEYED PRIOR TO THE INITIATION OF CONSTRUCTION AT THE PROJECT SITES, WITH NO ADDITIONAL COST TO THE OWNER.
6. A CUMULATIVE INDEX CORRELATING THE VARIOUS SEGMENTS OF THE VIDEO COVERAGE TO THE CORRESPONDING DVD'S SHALL BE SUPPLIED TO THE OWNER. THIS INDEX SHALL IDENTIFY EACH SEGMENT IN THE VIDEO BY LOCATION, ENGINEERING STATIONING CORRESPONDING TO THE STATIONING ON THE CONTRACT DOCUMENTS, VIDEO COUNTER NUMBER, VIEWING SIDE, POINT STARTING FROM, TRAVELING DIRECTION, AND ENDING POINT. WRITTEN DOCUMENTATION MUST COINCIDE WITH THE INFORMATION ON THE TAPE SO AS TO MAKE EASY RETRIEVAL OF LOCATIONS SOUGHT FOR AT A LATER DATE.
7. THE VIDEO PORTION OF THE RECORDING SHALL PRODUCE BRIGHT, SHARP, CLEAR PICTURES WITH ACCURATE COLORS AND SHALL BE FREE FROM DISTORTION, TEARING, ROLLS, OR ANY OTHER FORM OF PICTURE IMPERFECTION. THE AUDIO PORTION OF THE RECORDING SHALL REPRODUCE PRECISE AND CONCISE EXPLANATORY NOTES BY THE CAMERA OPERATOR WITH PROPER VOLUME, CLARITY, AND FREEDOM FROM DISTORTION.
8. THE RECORDER SHALL RECORD THE COLOR SIGNAL WITH A MINIMUM HORIZONTAL RESOLUTION OF 400 LINES. THE COLOR VIDEO CAMERA SHALL HAVE A MINIMUM HORIZONTAL RESOLUTION OF 700 LINES AT THE CENTER.
9. TO PRECLUDE THE POSSIBILITY OF TAMPERING OR EDITING, THE DVD SHALL DISPLAY CONTINUOUS DIGITAL INFORMATION INCLUDING THE FOLLOWING:
 - a. DATE AND TIME OF THE RECORDING; DATE INFORMATION WILL CONTAIN THE MONTH, DAY, AND YEAR; TIME INFORMATION WILL CONTAIN HOURS, MINUTES, AND SECONDS, SEPARATED BY COLONS.
9. DIGITAL INFORMATION SHALL APPEAR AT THE BOTTOM OF THE VIEWING SCREEN AND IN NO WAY INTERFERE WITH THE VIDEO PORTION OF THE RECORDING.
10. AT THE START OF EACH VIDEO RECORDING SEGMENT, AN IDENTIFICATION SUMMARY SHALL BE READ INTO THE RECORD SIMULTANEOUSLY WITH A WIDE-ANGLE VIEW WITH DIGITAL INFORMATION. THE IDENTIFICATION SUMMARY SHALL INCLUDE THE FOLLOWING:
 - a. DVD NUMBER
 - b. CONTRACT NUMBER AND PROJECT NAME
 - c. CONTRACTOR'S NAME
 - d. DATE AND TIME
 - e. GENERAL LOCATION ON THE SITE
 - f. WEATHER
 - g. DIRECTION OF TRAVEL AND VIEWING DIRECTION
11. THE RECORDING SHALL INCLUDE THE COVERAGE OF ALL SURFACE AND OTHER SITE FEATURES LOCATED IN AREAS TO BE AFFECTED BY THE WORK, EXTENDING TO A MINIMUM OF 15 FEET OUTSIDE THE ACTUAL AREA TO BE DISTURBED. THE SURFACE FEATURES RECORDED SHALL INCLUDE, BUT NOT BE LIMITED TO, ROADWAYS, DRIVEWAYS, SIDEWALKS, CURBS, CULVERTS, HEADWALLS, RETAINING WALLS, BUILDINGS, ABOVE-GROUND UTILITIES, PARKS, LAWNS, LANDSCAPING, TREES, TREE CANOPIES, SHRUBBERY, AND FENCES. THE AREA COVERAGE SHALL EXTEND TO 50 FEET FROM THE PROPOSED WORK SITE BUT SHALL INCLUDE ALL UNPAVED AREAS AND ACCESS ROUTES WHERE THE VEHICLES OR EQUIPMENT PASS.
12. VIDEO RECORDING MAY BE ORDERED OUTSIDE OF THE AREA OF COVERAGE IN ORDER TO ESTABLISH THOSE FEATURES DEEMED NECESSARY BY THE OWNER.
13. VIDEO RECORDING COVERAGE SHALL INCLUDE DOCUMENTATION OF THE CONDITION OF THE SURFACE AND OTHER SITE FEATURES LOCATED WITHIN THE AREA OF COVERAGE AND SHALL BE SUPPORTED BY APPROPRIATE AUDIO DESCRIPTION. AUDIO DESCRIPTION SHALL BE MADE SIMULTANEOUSLY WITH THE VIDEO RECORDING.
14. THE COVERAGE SHALL BE CONTINUOUS (i.e. THE CAMERA SHALL NOT BE TURNED OFF ONCE RECORDING HAS BEGUN) TO THE GREATEST EXTENT POSSIBLE.
15. THE RATE OF TRAVEL FOR VIDEO RECORDING SHALL BE DETERMINED BY THE NUMBER, SIZE, AND VALUE OF THE SURFACE AND OTHER SITE FEATURES WITHIN THE CONSTRUCTION AREA OF COVERAGE SO AS TO PRODUCE A CLEAR, DETAILED VIEW OF EACH FEATURE. AT NO TIME SHALL THE RATE OF TRAVEL EXCEED 44 FEET PER MINUTE. FORWARD MOTION OF THE CAMERA SHALL BE HALTED WHEN VIEWING OBJECTS OR STRUCTURES OUTSIDE THE LIMITS OF THE STREET OR EASEMENT BEING DOCUMENTED.
16. THE PHOTOGRAPHER SHALL PAN AND ZOOM IN AND OUT AT A REASONABLE RATE SO AS TO CONTROL SUFFICIENTLY THE CLARITY OF OBJECTS BEING VIEWED. WHEN RECORDING IN RIGHT-OF-WAYS, THE CAMERA SHALL BE MOUNTED ON A STEADY BASE. HORIZONTAL AND VERTICAL SHOTS SHALL BE MADE FROM THE BASE, IN ORDER TO INSURE PROPER PERSPECTIVE. THE DISTANCE FROM THE CAMERA LENS TO THE GROUND SHALL BE NOT LESS THAN 12 FEET. IF NOT ACCESSIBLE BY MOTORIZED VEHICLE, HEIGHT SHALL BE DETERMINED BY THE DISTANCE FROM GROUND TO SHOULDER HEIGHT OF THE CAMERA OPERATOR. CONTRACTOR SHALL FURNISH ALL AUXILIARY LIGHTING AS REQUIRED TO PRODUCT A QUALITY RECORDING. AT NO TIME WILL THE CONTRACTOR BE ALLOWED TO USE ANY ELECTRICAL CIRCUITS WITHIN A BUILDING ON PRIVATE PROPERTIES.
17. ALL VIDEO RECORDING SHALL BE PERFORMED DURING REGULAR BUSINESS HOURS, UNLESS OTHERWISE APPROVED BY THE OWNER. NO VIDEO RECORDING SHALL BE PERFORMED IF THE WEATHER IS NOT ACCEPTABLE, SUCH AS RAIN, FOG, OR ELONGATED SHADOWS THAT DISTORT PERCEPTION AND TEND TO PREVENT CLEAR RESOLUTION.

GENERAL NOTES & SPECIFICATIONS

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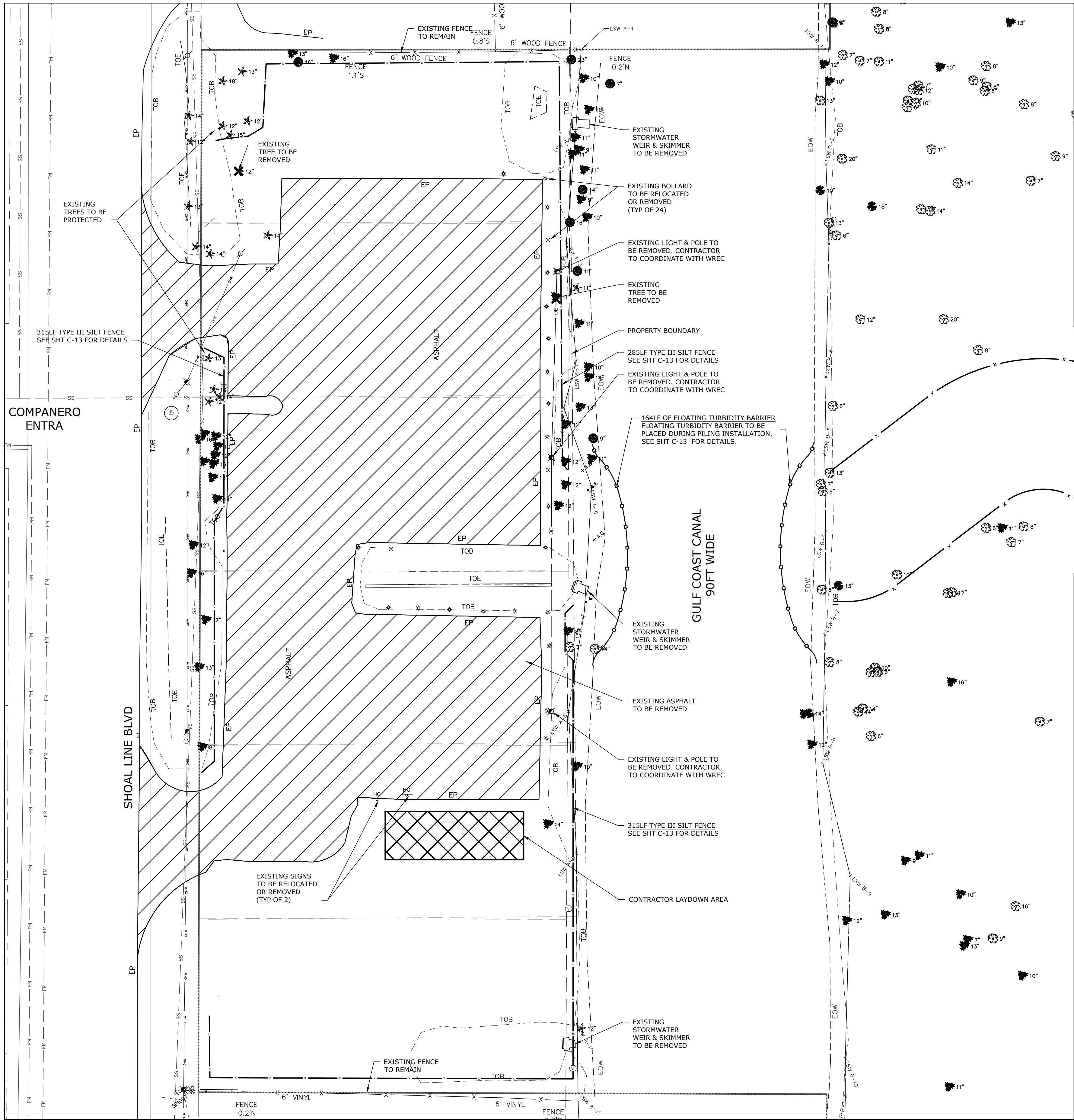
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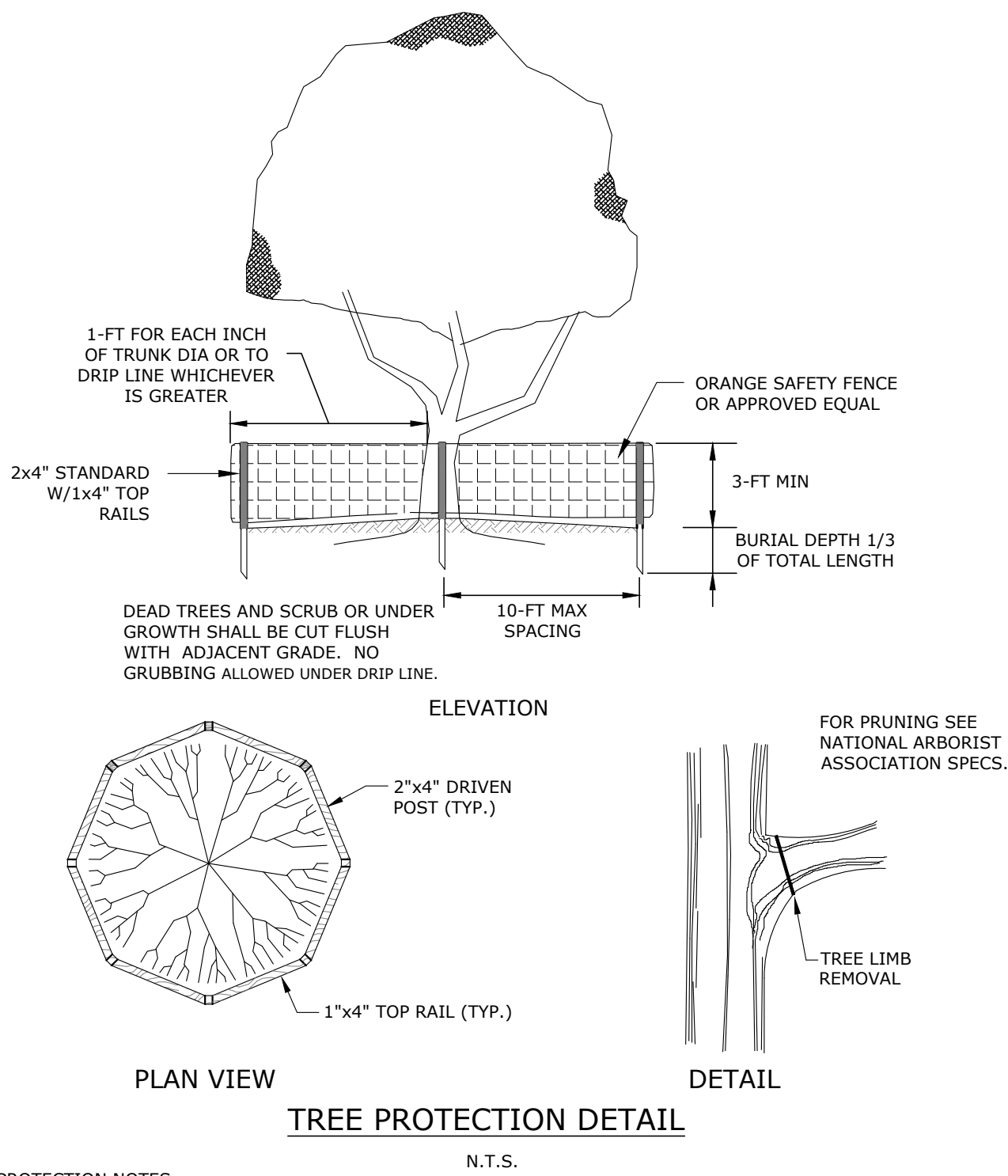
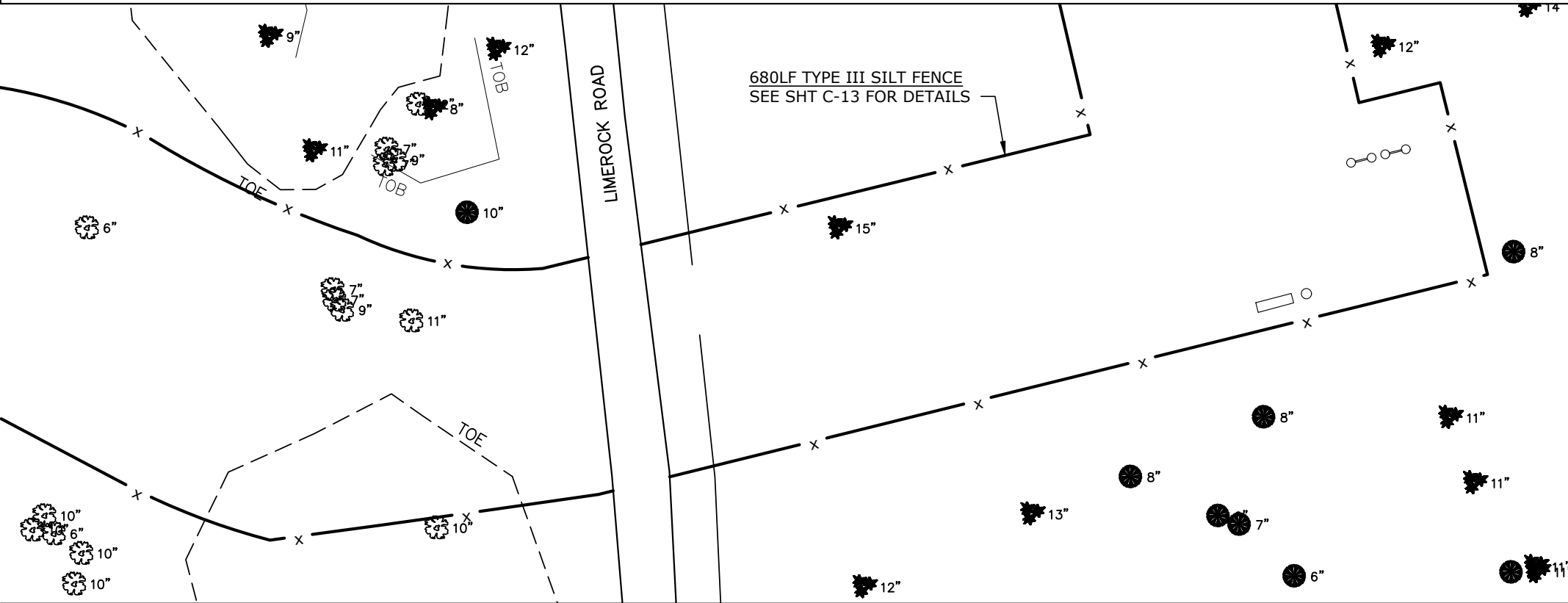
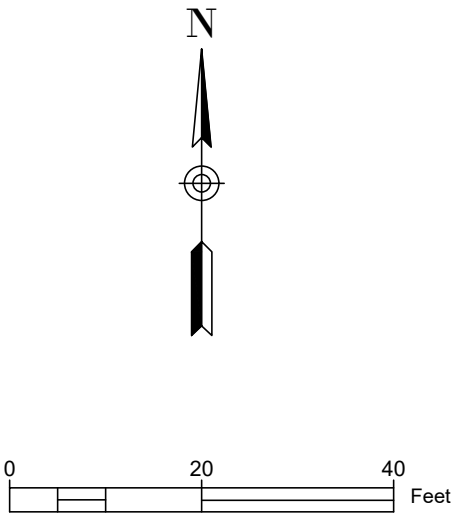
SHEET

C-03

JOB No.: 21078



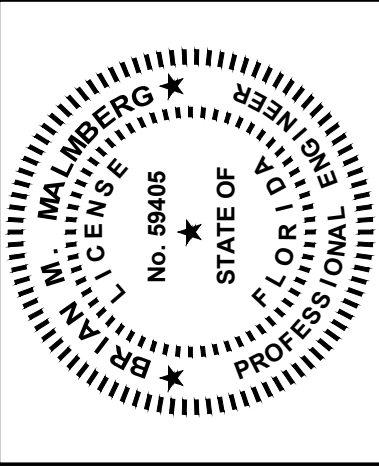
- LEGEND:**
- EXISTING ASPHALT TO BE REMOVED
 - EXISTING TREE TO BE REMOVED
 - CONSTRUCTION LAYDOWN AREA
 - TURBIDITY BARRIER
 - SILT FENCE TYPE III



- TREE PROTECTION NOTES:**
- TREE PROTECTION FENCE SHALL BE UTILIZED FOR ALL TREES NOT IDENTIFIED FOR REMOVAL WITHIN AREAS OF CONSTRUCTION ACTIVITY.
 - TREE PROTECTION SHALL BE INSTALLED PRIOR TO START OF ANY SITE WORK.
 - PLACE STAKES AND RAILS AT OR OUTSIDE OF THE DRIP LINE (CANOPY) OF THE TREE(S) TO BE PROTECTED PRIOR TO INITIATING ANY SITE CLEARING OR GRADING ACTIVITY.
 - NO VEHICLES OR MATERIALS SHALL BE PARKED OR PLACED WITHIN THE LIMITS OF THE TREE'S DRIP LINE.
 - NO MECHANICAL CLEARING, GRUBBING OR GRADING WHICH WOULD IMPACT ROOT SYSTEM OF PRESERVED TREE SHALL OCCUR WITHIN THE LIMITS OF THE TREE'S DRIP LINE UNLESS APPROVED BY THE ENGINEER OR TREE ARBORIST.
 - NO TRENCHING SHALL OCCUR WITHIN THE TREE DRIP LINE WITHOUT ENGINEER APPROVAL. ANY APPROVED TRENCHING SHALL BE CONDUCTED BY HAND DIGGING, WITH ROOTS PRUNED USING APPROPRIATE PRUNING TOOLS.
 - REMOVE ALL BARRIERS UPON FINAL ACCEPTANCE OF PROJECT UNLESS APPROVED OTHERWISE BY THE ENGINEER.

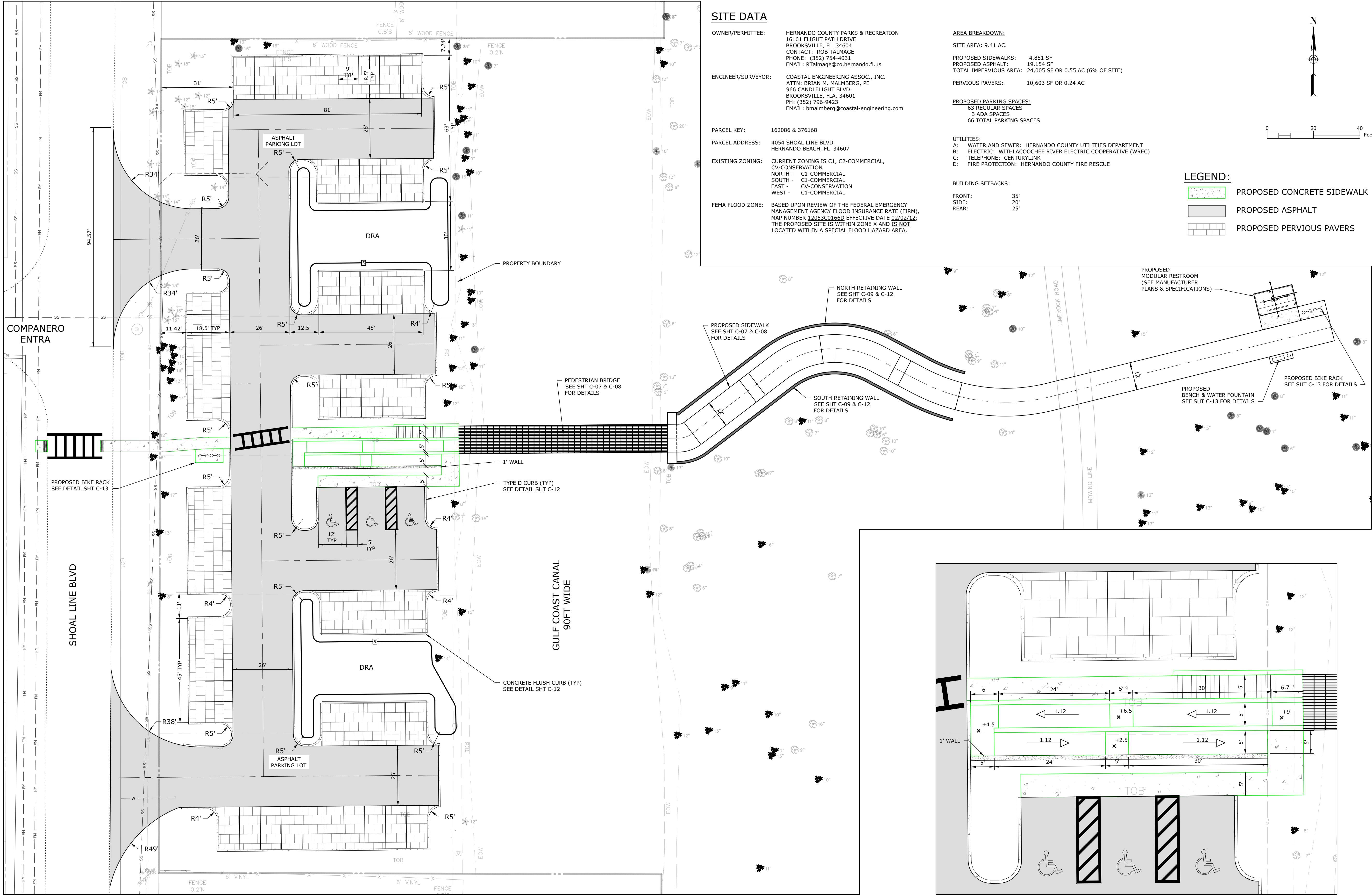
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SITE DATA

OWNER/PERMITTEE: HERNANDO COUNTY PARKS & RECREATION
16161 FLIGHT PATH DRIVE
BROOKSVILLE, FL 34604
CONTACT: ROB TALMAGE
PHONE: (352) 754-4031
EMAIL: RTalmage@co.hernando.fl.us

ENGINEER/SURVEYOR: COASTAL ENGINEERING ASSOC., INC.
ATTN: BRIAN M. MALMBERG, PE
966 CANDELIGHT BLVD.
BROOKSVILLE, FLA. 34601
PH: (352) 796-9423
EMAIL: bmalmborg@coastal-engineering.com

PARCEL KEY: 162086 & 376168

PARCEL ADDRESS: 4054 SHOAL LINE BLVD
HERNANDO BEACH, FL 34607

EXISTING ZONING: CURRENT ZONING IS C1, C2-COMMERCIAL,
CV-CONSERVATION
NORTH - C1-COMMERCIAL
SOUTH - C1-COMMERCIAL
EAST - CV-CONSERVATION
WEST - C1-COMMERCIAL

FEMA FLOOD ZONE: BASED UPON REVIEW OF THE FEDERAL EMERGENCY
MANAGEMENT AGENCY FLOOD INSURANCE RATE (FIRM),
MAP NUMBER 12053C0166D EFFECTIVE DATE 02/02/12,
THE PROPOSED SITE IS WITHIN ZONE X AND IS NOT
LOCATED WITHIN A SPECIAL FLOOD HAZARD AREA.

AREA BREAKDOWN:
SITE AREA: 9.41 AC.
PROPOSED SIDEWALKS: 4,851 SF
PROPOSED ASPHALT: 19,154 SF
TOTAL IMPERVIOUS AREA: 24,005 SF OR 0.55 AC (6% OF SITE)

PERVIOUS PAVERS: 10,603 SF OR 0.24 AC

PROPOSED PARKING SPACES:
63 REGULAR SPACES
3 ADA SPACES
66 TOTAL PARKING SPACES

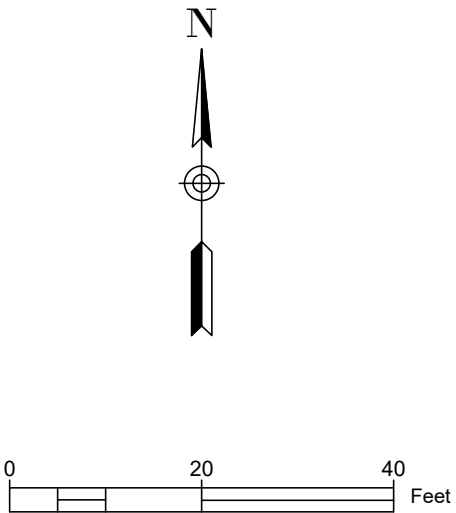
UTILITIES:
A: WATER AND SEWER: HERNANDO COUNTY UTILITIES DEPARTMENT
B: ELECTRIC: WITHLACOOCHEE RIVER ELECTRIC COOPERATIVE (WREC)
C: TELEPHONE: CENTURYLINK
D: FIRE PROTECTION: HERNANDO COUNTY FIRE RESCUE

BUILDING SETBACKS:

FRONT: 35'
SIDE: 20'
REAR: 25'

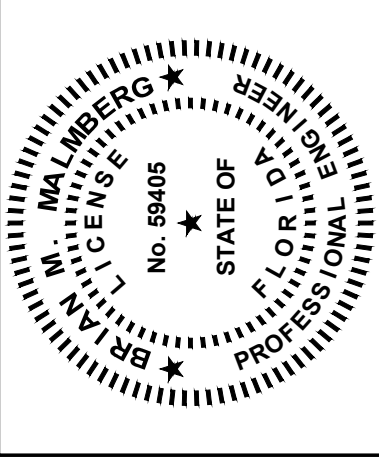
LEGEND:

- PROPOSED CONCRETE SIDEWALK
- PROPOSED ASPHALT
- PROPOSED PERVIOUS PAVERS



SITE PLAN

WEEKI WACHEE PRESERVE PARK



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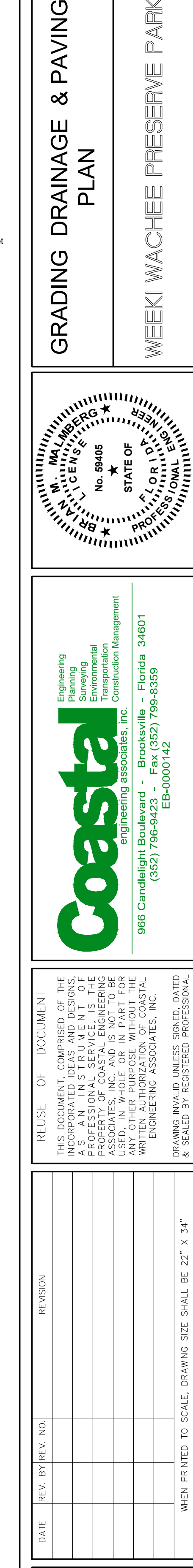
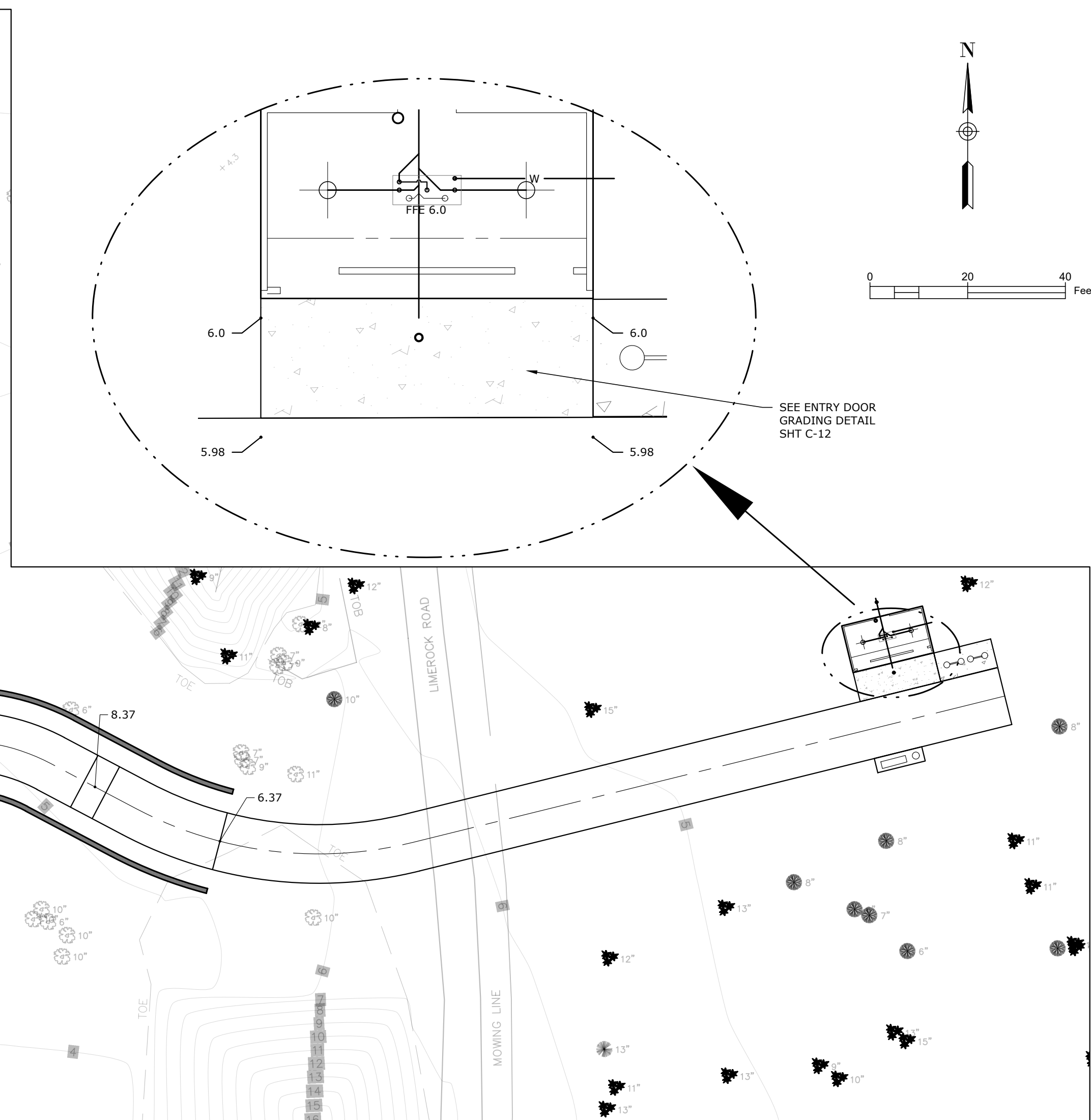
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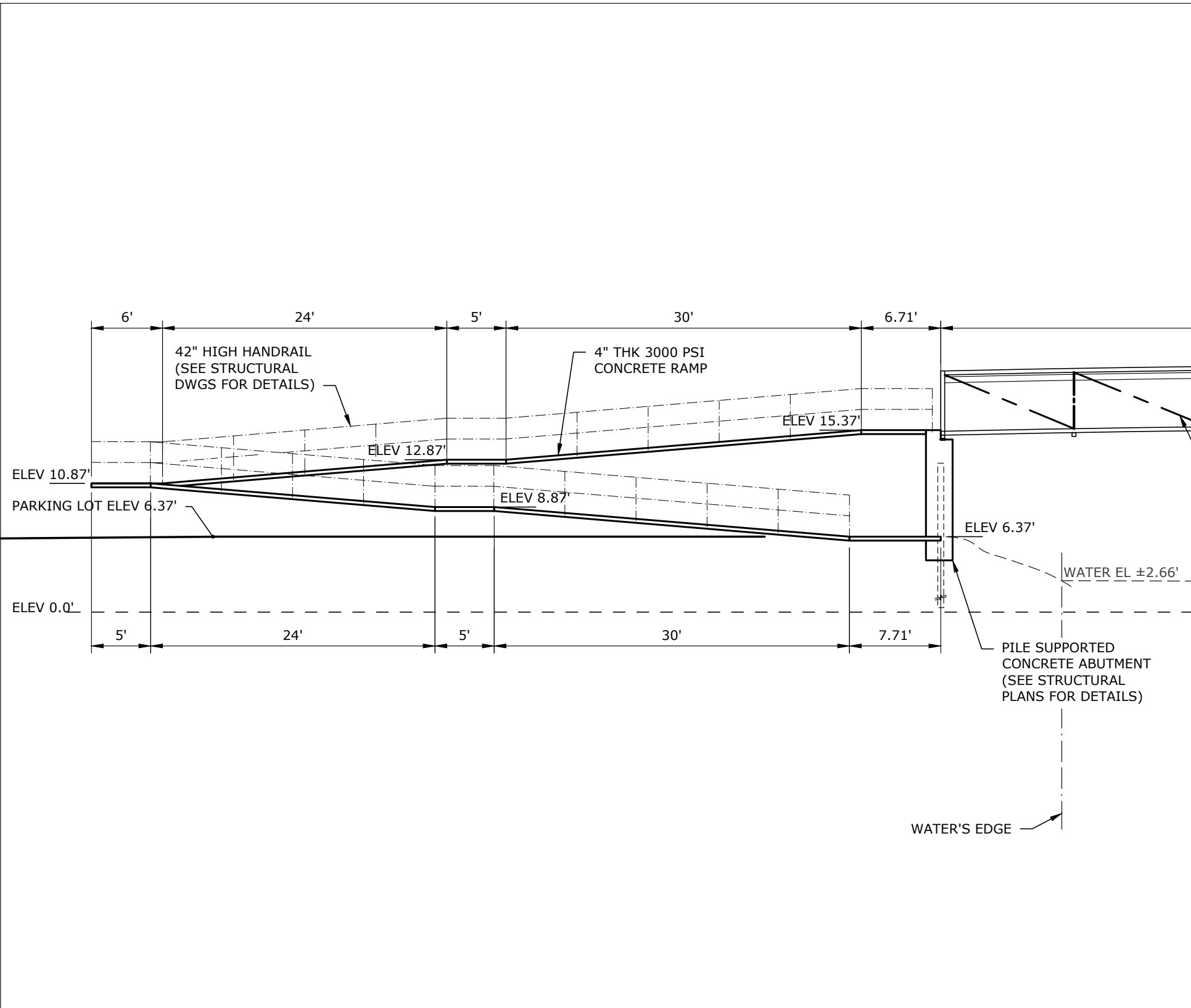
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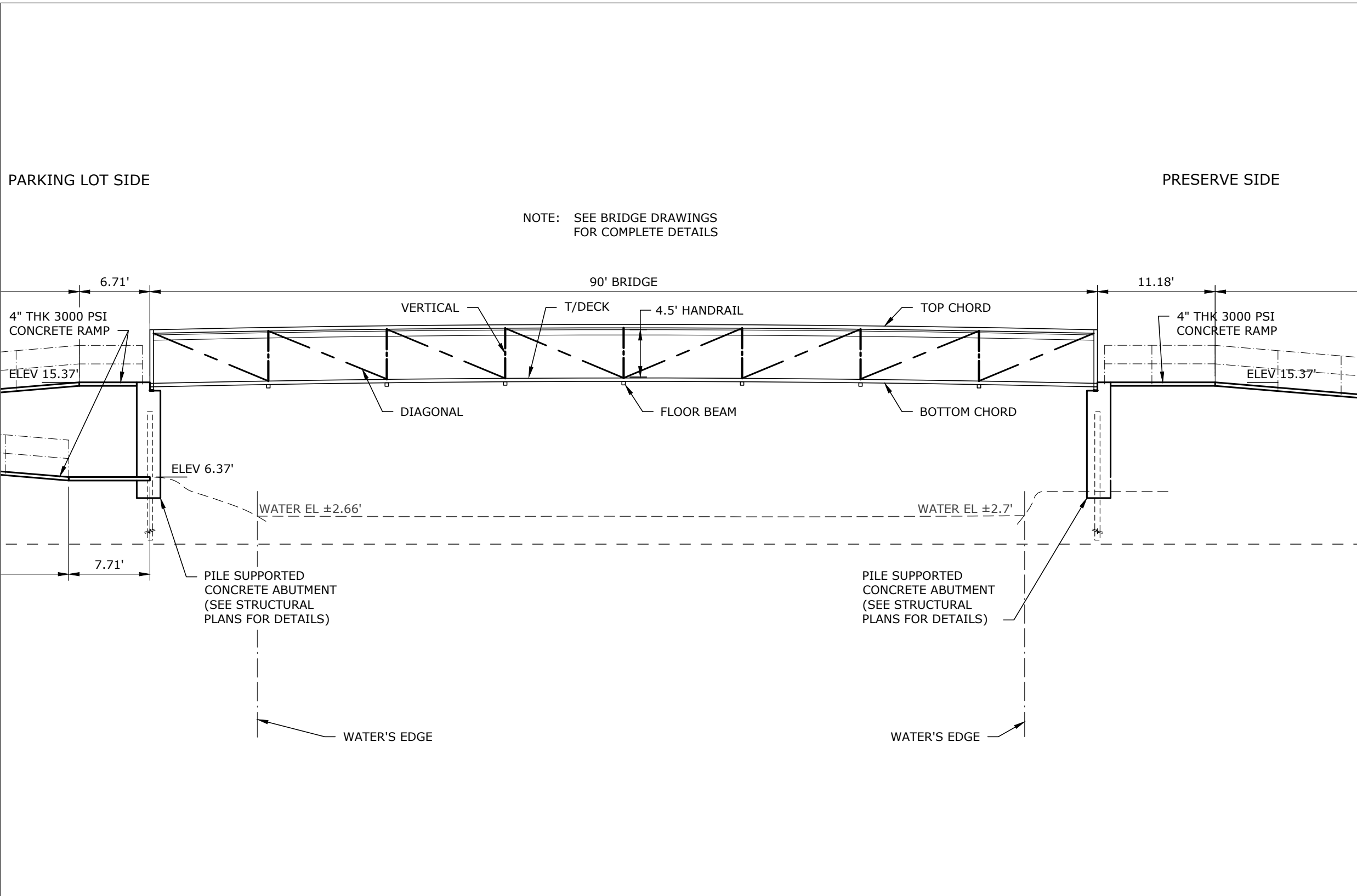
WHEN PRINTED TO SCALE, DRAWING SIZE SHALL BE 22" X 34"

SHEET
C-05

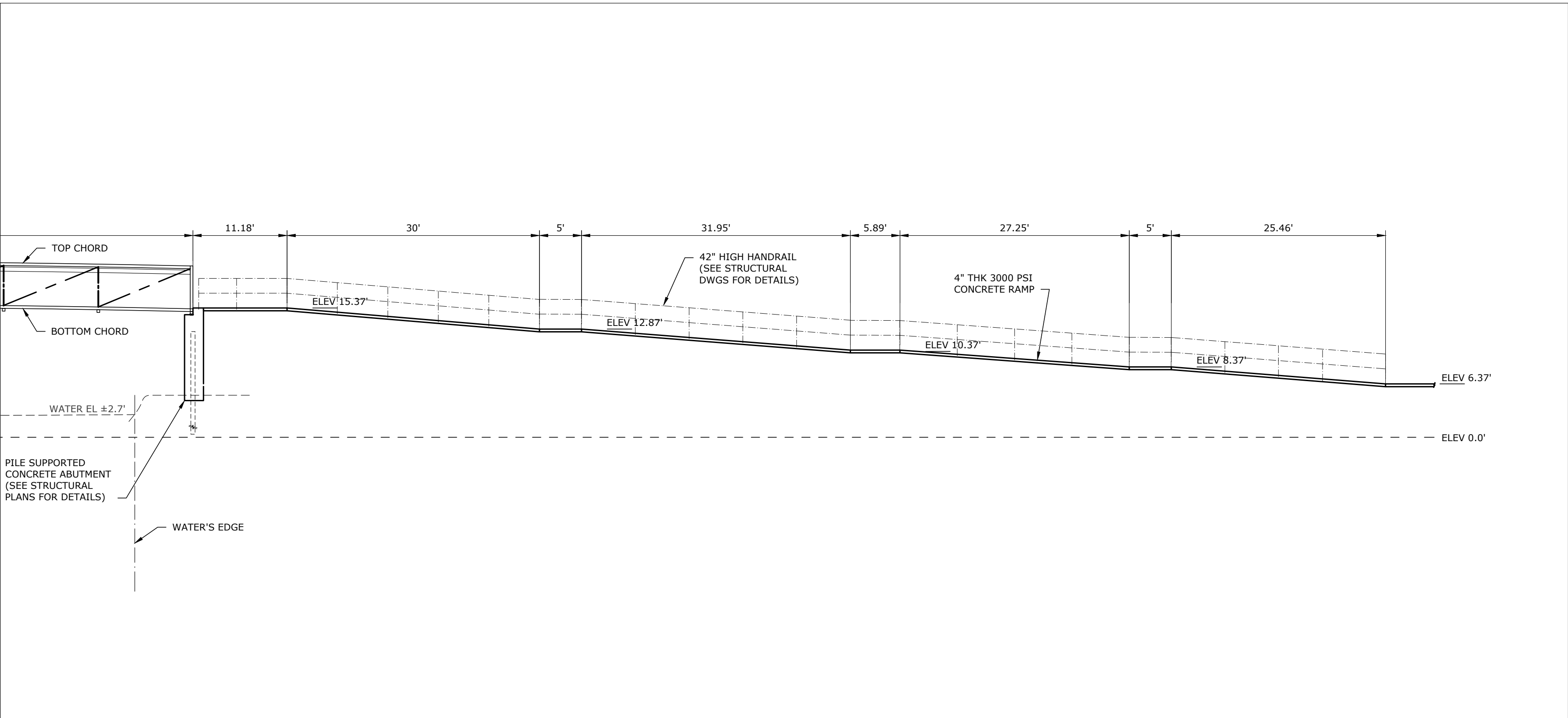




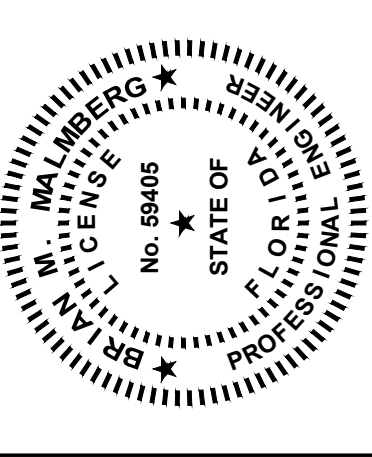
WEST RAMP
VERTICAL SCALE: 1"=10'



**CONTINENTAL EXPRESS
PEDESTRIAN TRUSS BRIDGE**
VERTICAL SCALE: 1"=10'



EAST RAMP
VERTICAL SCALE: 1"=10'



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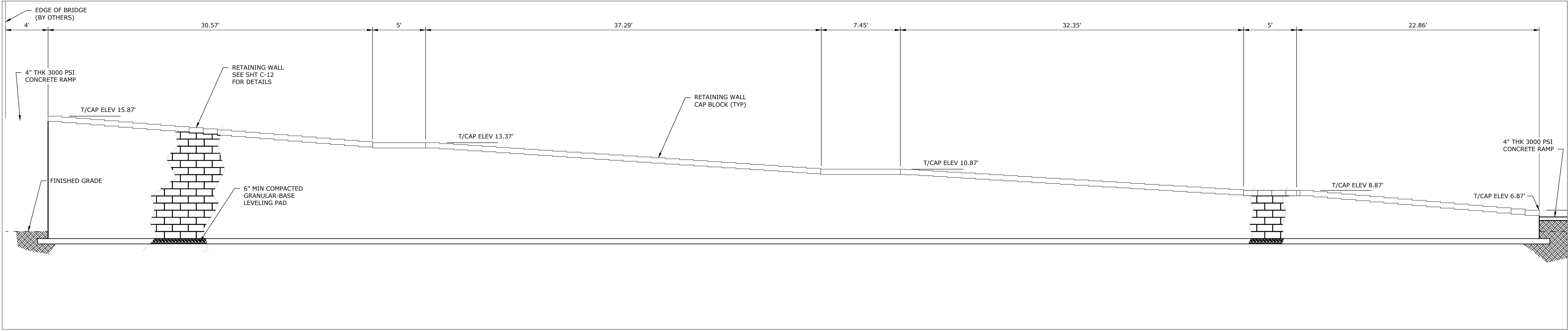
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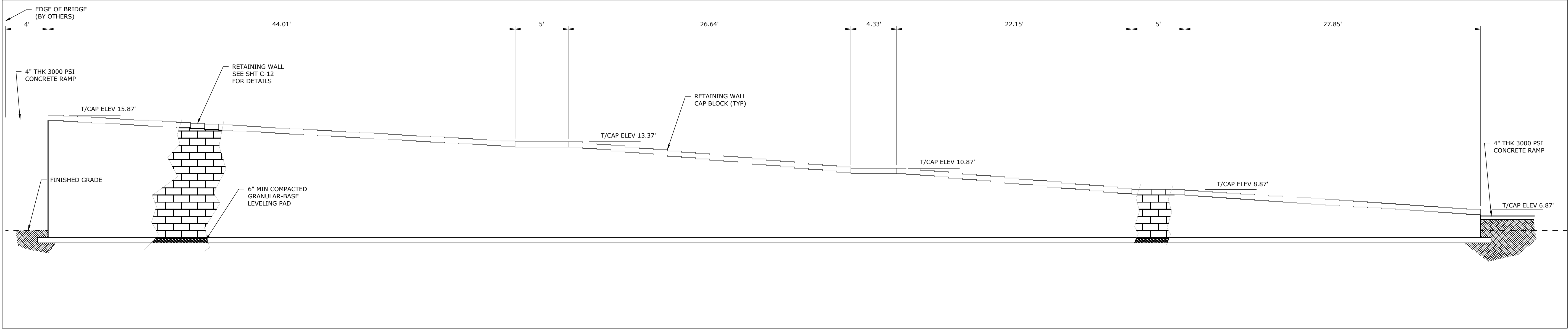
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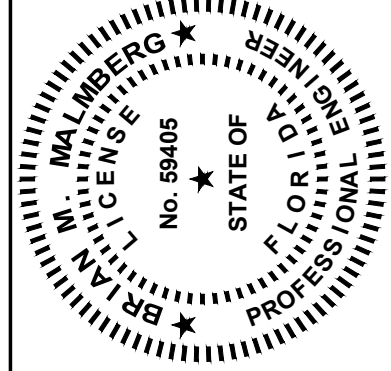
EAST RAMP NORTH RETAINING WALL
(LOOKING NORTH)
VERTICAL SCALE: 1"=5'



EAST RAMP SOUTH RETAINING WALL
(LOOKING NORTH)
VERTICAL SCALE: 1"=5'

RETAINING WALL PROFILE

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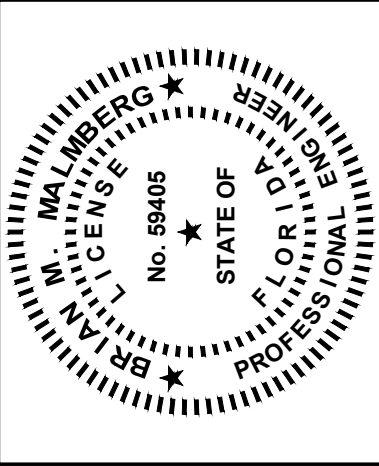
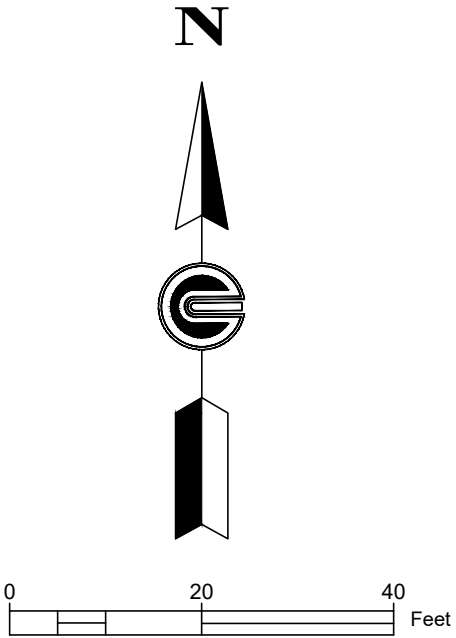
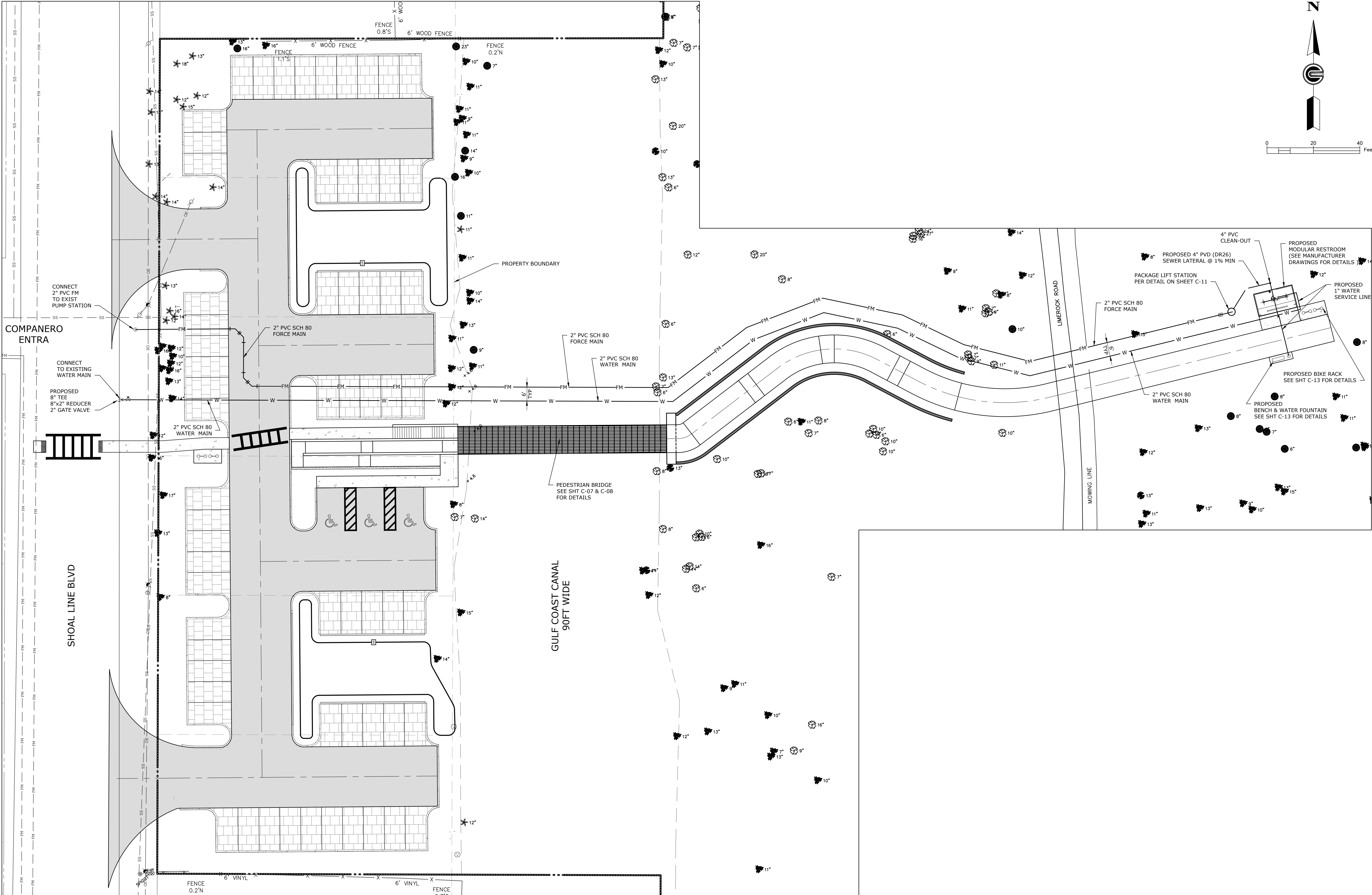
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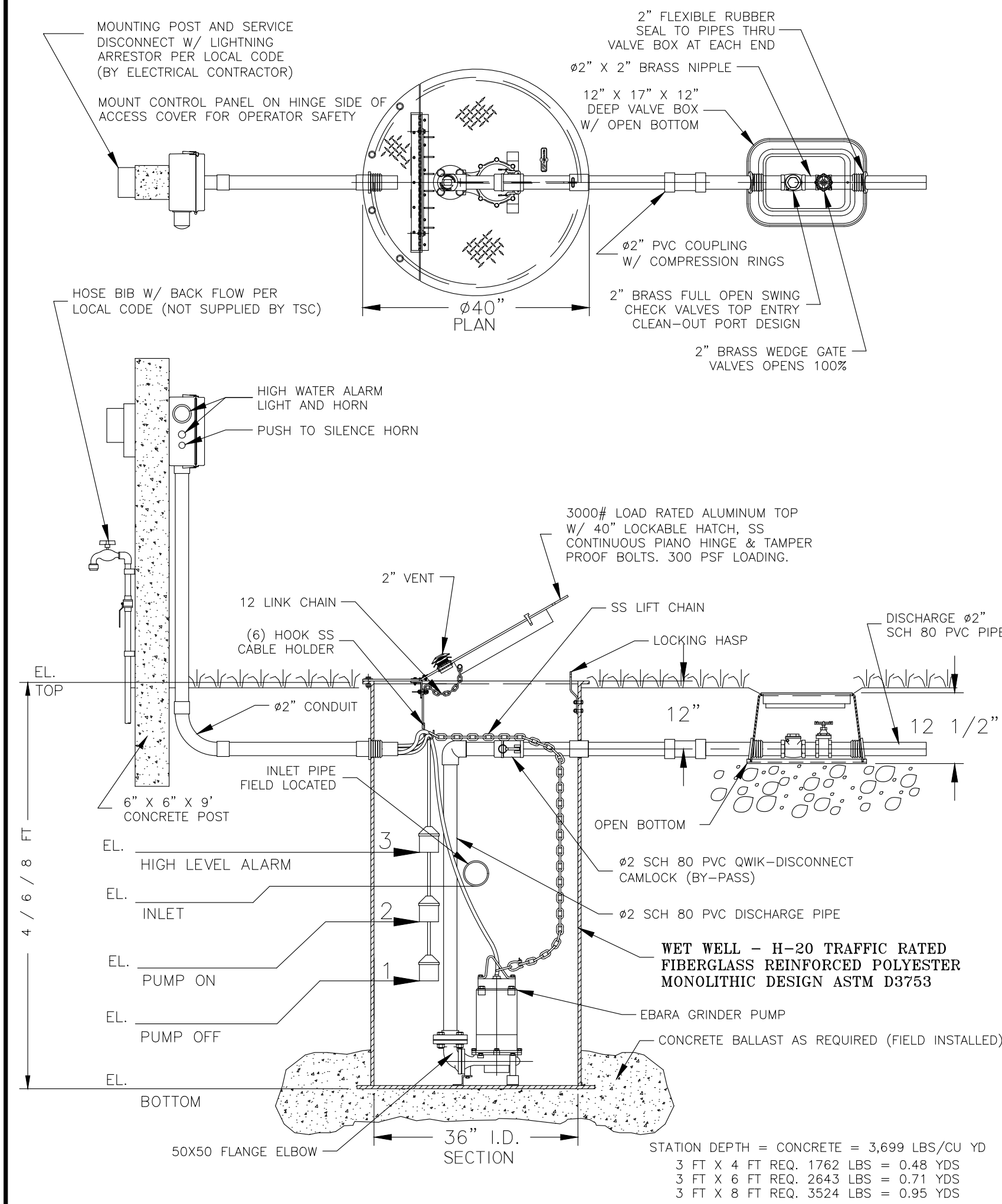
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36" SIMPLEX GRINDER STATION
WITH VALVE BOX AND CONTROL PANEL
TSC PRE-FAB PUMP SOLUTIONS®

MODEL
TSC1-36.4 R21.dwg©

2. MOUNTING POST AND SERVICE DISCONNECT PER LOCAL CODE
1. CONCRETE BALLAST AS REQUIRED
FIELD INSTALL BY CONTRACTOR

JOB: _____

QS: _____

GENERAL NOTES

FURNISH AND INSTALL EBARA SUBMERSIBLE GRINDER PUMP:

DESIGN CONDITION:

MODEL	32 DGI, DGF	2	HP
GPM	10-40	10-100	FT/TDH
VOLTAGE	208/230	SINGLE OR THREE	PHASE
DISCHARGE	2"		IMPELLER

- SEWAGE GRINDER PUMP: 1. RATED FOR TWENTY (20) STARTS PER HOUR.
- AIR FILLED MOTOR DESIGNED FOR SEWAGE APPLICATION WITH CLASS F INSULATION.
- DUAL MECHANICAL SHAFT SEALS (SILICON CARBIDE / SILICON CARBIDE) LOCATED OUT OF THE PUMPAGE, IN A SEPARATE OIL FILLED CHAMBER.
- HIGH TEMPERATURE BALL BEARINGS B-10 RATING OF 60,000 HOURS, UPPER BEARING - SINGLE ROW AND LOWER BEARINGS - DOUBLE ROW TYPE.
- PUMP SHAFT HORSEPOWER (BHP) SHALL NOT EXCEED MOTOR RATED HORSEPOWER THROUGHOUT THE ENTIRE OPERATING RANGE OF THE PUMP PERFORMANCE CURVE.
- SINGLE PHASE MOTOR SHALL BE DUAL WOUND, CAPACITOR START-RUN AND CAPABLE OF OPERATING ON 208/230 VOLT WITH A 10% TOLERANCE VOLTAGE (190 TO 260). THREE PHASE MOTOR SHALL BE DUAL WOUND AND CAPABLE OF OPERATING ON 208/230 VOLT WITH A 10% TOLERANCE VOLTAGE (190 TO 260) OR OPERATE ON 460 VOLT BY CHANGING THE MOTOR LEADS INSIDE THE PUMP.

FIBERGLASS WET WELL: SHALL BE A ONE PIECE UNIT WITH INTEGRAL BOTTOM, WALL AND UPPER FLANGE. THE ENTIRE FIBERGLASS WET WELL SHALL HAVE A DYNAMIC LOAD RATING OF 16,000 FT/LBS. EACH UNIT MUST BE SERIAL NUMBERED TO IDENTIFY THE TEST PROCEDURE. ASTM D 3753 & H-20 SPECIFICATIONS SHALL BE REQUIRED AS MINIMUM.

ALUMINUM HATCH: TSC MODEL-40R (40") ROUND LOCKABLE HINGED TOP, REINFORCED FOR LOAD RATING OF 300 LBS/FT OPENS 180° WITH LOCKING DEVICE FOR HASP TYPE PADLOCK AND STAINLESS STEEL HARDWARE.

VALVE BOX: HIGH-IMPACT, HIGH-DENSITY POLYETHYLENE CONSTRUCTION

ACCESSORIES: #304 S/S - CABLE HOLDER, PUMP LIFTING CHAIN AND HARDWARE.

VALVES: SHALL BE SEWAGE SERVICE DESIGN BRASS SWING CHECK VALVE WITH TOP ENTRY CLEAN-OUT PORT AND BRASS WEDGE GATE VALVE OPEN 100%.

PIPING: 2" SCHEDULE 80 PVC.

FLOAT SWITCHES: UL LISTED SJ ELECTRO MODEL (SJ 30 MSWENO).

PUMP SUPPLIER SHALL PROVIDE SUBMERSIBLE PUMP, CONTROL PANEL, FLOAT SWITCHES, WET WELL, ALUMINUM HATCH, VALVE BOX AND ACCESSORIES TO INSURE PROPER OPERATION AND WARRANTY.

THE COMPLETE PACKAGE STATION SHALL HAVE DISCHARGE PIPING ASSEMBLED BY TECHNICAL SALES CORPORATION READY TO SHIP FOR FIELD INSTALLATION. THE MANUFACTURER OF PRE-FAB PUMP SOLUTIONS®.

TECHNICAL SALES CORPORATION, 4621 N. HALE AVE TAMPA, FL 33614 (813)876-9256

CONTROL PANEL -SHALL BE MANUFACTURED BY A "UL" LISTED SHOP

CONTROL PANEL SHALL BE TSC MODEL # CW201 IN A NEMA 4X FIBERGLASS ENCLOSURE. THE PANEL SHALL MEET STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP) REQUIREMENT FOR SIMPLEX GRINDER STATION (SUBJECT TO REVIEW).

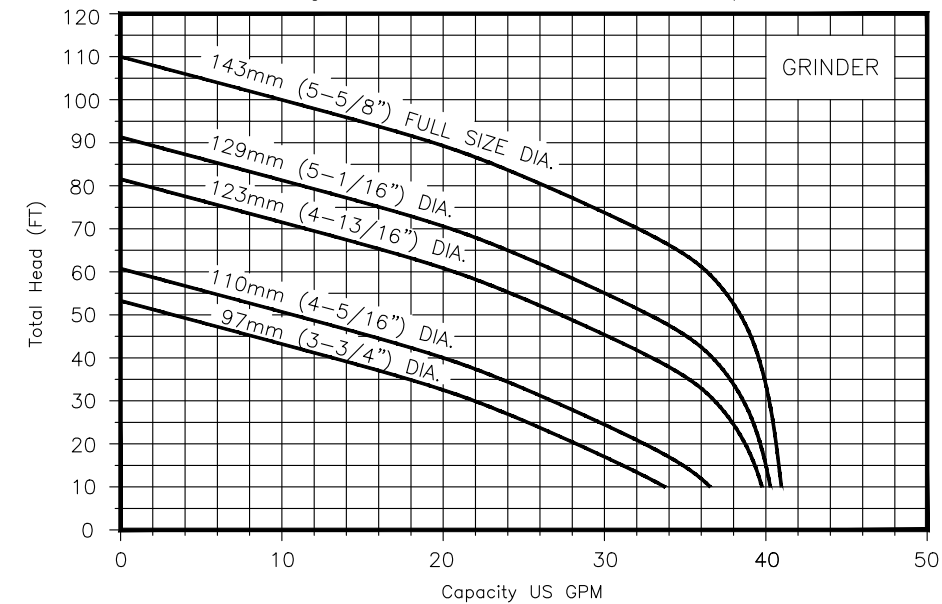
FLOAT SWITCHES AND CONTROL SYSTEM SHALL BE UL LISTED AND ALL COMPONENTS SHALL BE UL LISTED.

ELECTRICAL CONTRACTOR TO PROVIDE SERVICE DISCONNECT WITH LIGHTNING ARRESTOR MOUNTED PER LOCAL CODES.

THE CONTROL PANEL SHALL BE SUITABLY INSTALLED TO PREVENT SETTLING OR TIPPING.

Ebara Submersible Pumps

EBARA 32 DGI, DGF 2 HP Synchronous Speed: 3600 RPM
Single and Three Phase 1-1/4 or 2 Inch Discharge
Design flow: GPM @ TDH/FT

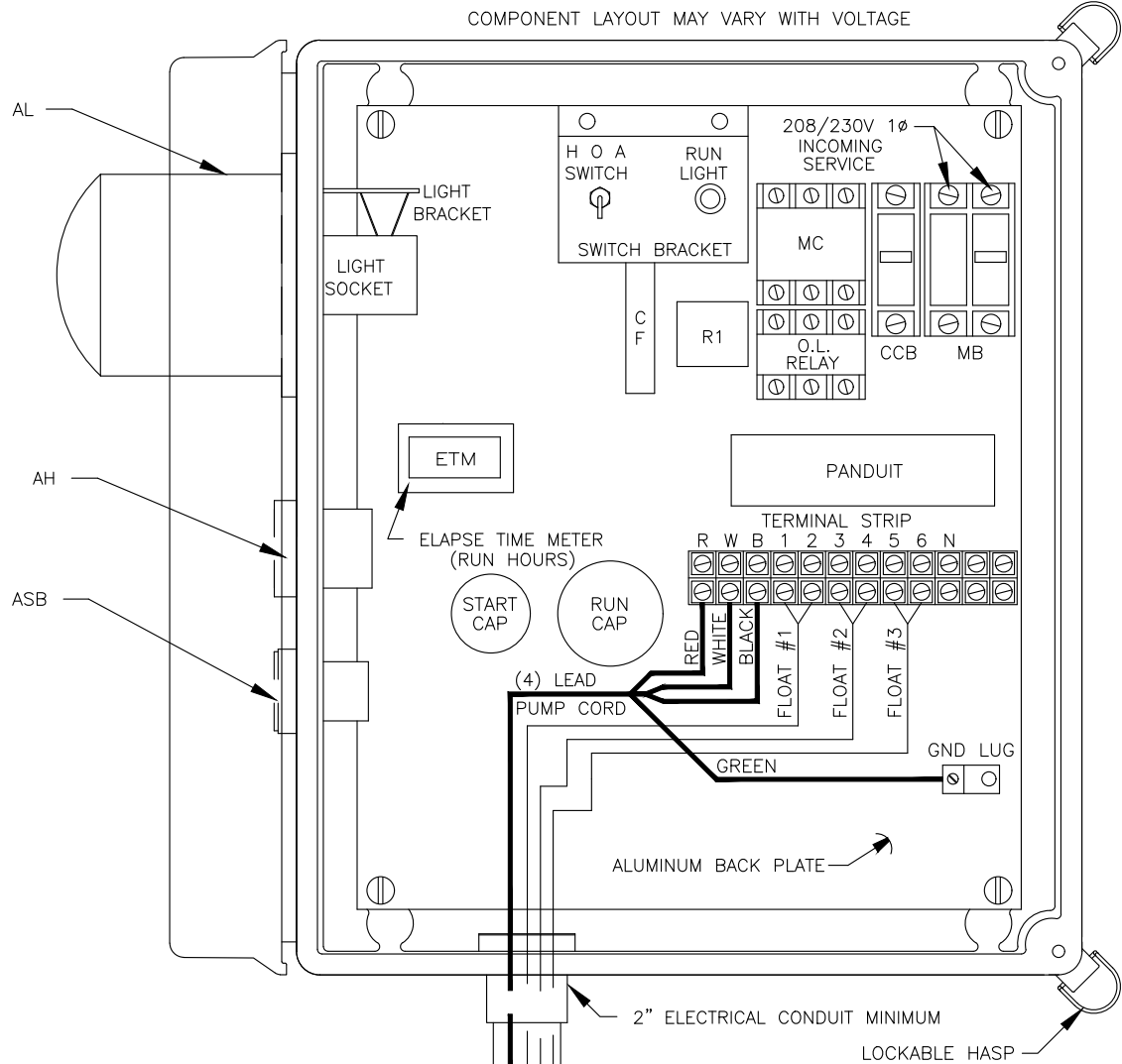


PUMP PERFORMANCE CURVE

CONTROL PANEL LAYOUT

CW200OETM2V - 208/230V 1Ø

COMPONENT LAYOUT MAY VARY WITH VOLTAGE

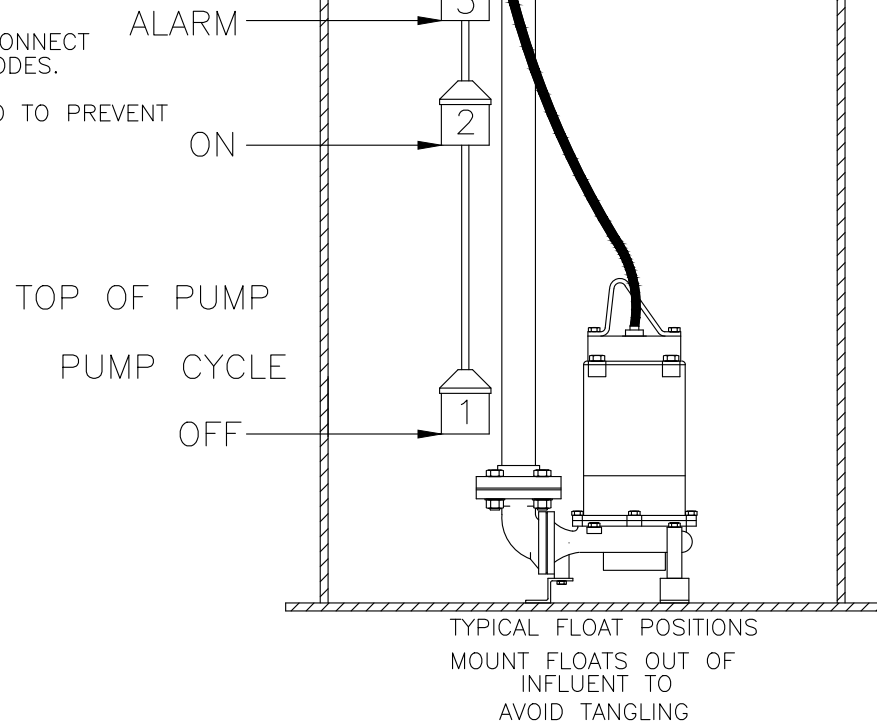


CONTROL PANEL -SHALL BE MANUFACTURED BY A "UL" LISTED SHOP
CONTROL PANEL SHALL BE TSC MODEL # CW201 IN A NEMA 4X FIBERGLASS ENCLOSURE. THE PANEL SHALL MEET CODE REQUIREMENTS GOVERNING "ON SITE" PRIVATE LIFT STATIONS.

FLOAT SWITCHES AND CONTROL SYSTEM SHALL BE UL LISTED AND ALL COMPONENTS SHALL BE UL LISTED.

ELECTRICAL CONTRACTOR TO PROVIDE SERVICE DISCONNECT WITH LIGHTNING ARRESTOR MOUNTED PER LOCAL CODES.

THE CONTROL PANEL SHALL BE SUITABLY INSTALLED TO PREVENT SETTLING OR TIPPING.



LEGEND

AL	VISUAL HIGH WATER ALARM LIGHT
AH	AUDIBLE HIGH WATER ALARM HORN
ASB	HIGH WATER ALARM SILENCE BUTTON
CCB	CONTROL CIRCUIT BREAKER
CF	CONTROL FUSE
ETM	ELAPSE TIME METER (RUN HOURS)
GL	GROUND LUG
HOA	HAND - OFF - AUTO SWITCH
K	BLEED RESISTOR
MB	MOTOR BREAKER
MC	MOTOR CONTACTOR
OL	ADJUSTABLE OVERLOAD RELAY
R1	ALARM SILENCE CONTROL RELAY
RC	RUN CAPACITOR
SC	START CAPACITOR
SR	START RELAY

PUMPS MUST HAVE INTEGRAL OVERLOAD PROTECTION

TSC SIMPLEX GRINDER PUMP STATION
FIBERGLASS WET WELL

TECHNICAL SALES
CORPORATION

TSC PRE-FAB PUMP SOLUTIONS®

WATERWORKS & WASTEWATER SPECIALTIES

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MODEL TSCE1-36.4

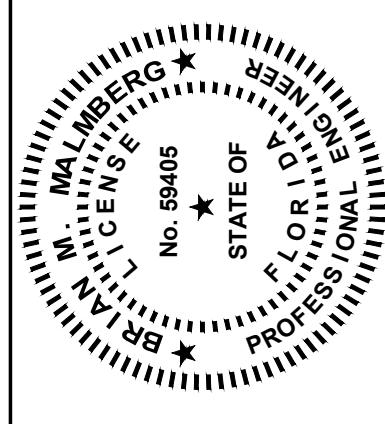
4621 N. HALE AVENUE PH (813)876-9256
TAMPA, FL 33614 FAX (813)874-1194

EMAIL: Sales@TSCtampa.com

REV-21 2021 SCALE: N.T.S.

DETAILS

WEEKI WACHEE PRESERVE PARK



Engineering
Planning
Surveying
Environmental
Transportation
Construction Management
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EB-000142

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DATE	REV.	BY	REV.	NO.	REVISION

WHEN PRINTED TO SCALE, DRAWING SIZE SHALL BE 22" X 34"

SHEET

C-11

JOB No.: 21078

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- 4 SLIDE DOWELS ON DOG BOWL INTO HOLES OF PEDESTAL AND ROTATE UPWARD.
- 6 INSTALL 7/16-14UNC NUT ON STUD AND TIGHTEN 3/4 TURN PAST HAND TIGHT.
- 6 BOND JOINTS WITH PVC CEMENT AND PRIMER.

7. APPLY SUPPLY HOSE AND WASTE LINE.


8. TEST SYSTEM AFTER ASSEMBLY.

- 9 A CHECK VALVE IS INSTALLED IN THIS LOCATION TO PREVENT CROSS CONNECTION BETWEEN SUBSUERS.

- 10 NOTE: DRAINAGE ASSEMBLY SLIDES VERTICALLY ON HOLDER. UPON COMPLETION OF INSTALLATION, PUSH UP ON BOTTOM OF ELBOW TO ENSURE POSITIVE DRAINAGE OF WASTE.
- 11 MOUNTING HARDWARE NOT SUPPLIED. SEE PARTS BREAKDOWN DRAWING FOR HARDWARE SUPPLIED WITH EACH OPTIONAL KIT.

**MODEL 3500D SHOWN
(SEE SHEET 1 FOR MODEL 3500)**

***NOTE: TEE SHOWN ASSEMBLED FOR REFERENCE ONLY.
POSITION TEE AND TRIM TUBING AS NEEDED TO FIT
INSTALLATION APPLICATION.**



Haws


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ENGINEERED BY: _____
DRAWING: _____
DATE: _____
APPROVED: _____
BY: _____


MODEL(S) 3500/3500D

16

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 siteScapes LANDSCAPE ARCHITECTS 1000 N. 17th Ave., Suite 200 Lincoln, NE 68506 TEL: 402.421.9464 FAX: 402.421.9479 WWW: www.sitescapesonline.com	P.O. Box 22326 Lincoln, NE 68542	PF: 402.421-9464 FX: 402.421-9479	WEBSITE: www.sitescapesonline.com E-MAIL: info@sitescapesonline.com
	TITLE ECHO BIKE RACK	PRODUCT NO. EC2-05-SM	INCH TOLERANCES U.O.S. FRACTION— $\pm 1/16"$ ANG— $\pm 1^\circ$

*Available in powder coat and DuraCoat finishes



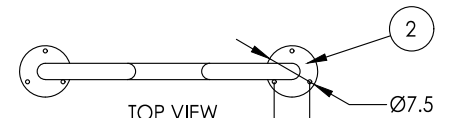
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Lincoln, NE 68542

FF: 402/421-9464
FX: 402/421-9479

WEBSITE: www.sitescapesonline.com
E-MAIL: info@sitescapesonline.com

TITLE <p style="text-align: center;">ECHO BIKE RACK</p>	PRODUCT NO. <p style="text-align: center;">EC2-05-SM</p>	INCH TOLERANCES U.O.S. FRACTION~±1/16" ANG~±1°
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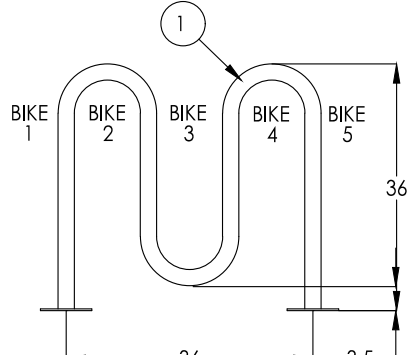
*Available in powder coat and Duracoat finishes



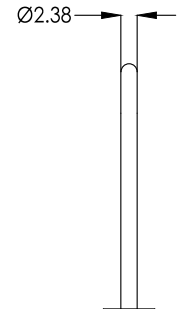
TOP VIEW

MATERIALS LIST


- (1) 1/4" x 36" x 2 3/8" x 1.54" Wall Steel Tubing
- (2) Surface Plate - Ø 7 1/2" x 1 1/4" Thick Steel Plate with Three (3) 9/16" Mounting Holes
- (3) Mounted with Six (6) 1/2" x 4-5" Stainless Steel Anchor Bolts (Customer Supplied)




FRONT VIEW



RIGHT SIDE VIEW

 siteScapes LANDSCAPE ARCHITECTS	P.O. Box 22326 Lincoln, NE 68542	PF: 402.421-9464 FX: 402.421-9479	WEBSITE: www.sitescapesonline.com E-MAIL: info@sitescapesonline.com
TITLE CITYVIEW BACKED BENCH	PRODUCT NO. CV1-1000	INCH SPACES U.S.O.S. FRACTION— $\frac{1}{16}$ " ANG— $\angle 1^\circ$	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SITESCAPES INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SITESCAPES INC. IS PROHIBITED.

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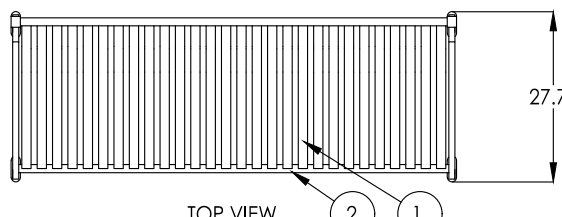
TITLE
**CITYVIEW
BACKED BENCH**

PRODUCT NO.
CV1-1000


INCH TOLERANCES U.S.S.
FRACTION $\pm 1/16"$
ANG $\pm 1^\circ$

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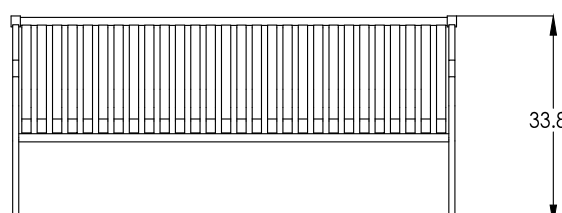
*Available in powder coat and DunsCoat finishes



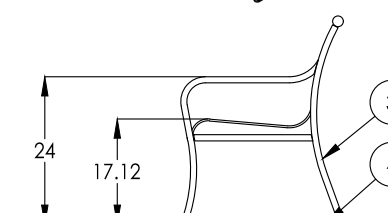
TOP VIEW



RIGHT SIDE VIEW



FRONT VIEW



Material/Lid

- (1) Seat Straps - 5/16" x 1 1/2" Steel Flat Bar
- (2) Support Pipes - Ø 1.315 x .133" Steel
- (3) End Units - 1" Square Solid Steel Bar
- (4) Surface Mount Plates - 1/4" x 1 1/2" Stainless Steel Plate with 9/16" Mounting Hole
- (5) Mounted with Four Ø 1/2" x 4-5" Stainless Steel Anchor Bolts (Customer Supplied)

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NOTES:
1. WHEN INSTALLING THIS UNIT, LOCAL, STATE, OR FEDERAL CODES SHOULD BE ADHERED TO. INSTALL A TRAP IN THE WASTE LINE AND SCREWDRIIVER STOP IN THE SUPPLY LINE IF REQUIRED.
2. MAXIMUM ADJUSTABLE RANGE IS 15" FROM PARALLEL TO BACK OF WALL.

3602 & 3602F

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Model(S) 3602 & 3602F

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Technical drawings of two types of floating turbidity barriers, Type I and Type II.

TYPE I

- 5/16" VINYL SHEATHED EAW STEEL CABLE (9800 LB BREAKING STRENGTH) WITH GALV. CONNECTORS (TOOL FREE DISCONNECT)
- CLOSED CELL SOLID PLASTIC FOAM FLOTATION (6" DIA EQUIV) (12 LBS PER FT BUOYANCY)
- 18 OZ. NYLON REINFORCED PVC FABRIC (300 PSI TEST)
- Stress Plate
- 5/16" GALV CHAIN
- D1
- 10 OZ. NYLON REINFORCED PVC FABRIC (300 PSI TEST) W/GROMMETS
- CLOSED CELL SOLID PLASTIC FOAM FLOTATION (6" DIA EQUIV) (12 LBS PER FT BUOYANCY)
- 5/8" POLYPRO ROPE (600 LB BREAKING STRENGTH)
- 1/4" GALV CHAIN
- D2

TYPE II

- 18 OZ. NYLON REINFORCED PVC FABRIC (300 PSI TEST)
- D2

D1 = 5' STD. (SINGLE PANEL FOR DEPTHS 5' OR LESS).
D2 = 5' STD. (ADDITIONAL PANEL FOR DEPTHS > 5').
CURTAIN TO REACH BOTTOM UP TO DEPTHS OF 10 FEET.
TWO(2) PANELS TO BE USED FOR DEPTHS GREATER THAN 10 FEET UNLESS SPECIAL DEPTH CURTAINS SPECIFICALLY CALLED FOR IN THE PLANS OR AS DETERMINED BY THE ENGINEER.

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

FLOATING TURBIDITY BARRIERS

N. T. S.

The technical drawings illustrate the specifications for a Type III Silt Fence. The **ELEVATION** view on the left shows a cross-section of the fence with a height of 12 inches and a length of 6 feet maximum. It features a filter fabric (in conformance with SEC 985 FDOT SPEC) and a silt flow path. Dimensions include a minimum height of 3 feet, a minimum width of 15 inches, and a maximum width of 8 inches. The **SECTION** view on the right shows the fence installed in a trench, with a principal post position (canted 20 degrees toward flow) and an optional post position (vertical). The filter fabric is shown at the bottom of the trench, and the silt flow is indicated by an arrow.

NOTES:

1. FOR ADDITIONAL INFORMATION AND DETAILS, SEE F.D.E.P. BMP STANDARDS.
2. UNLESS SPECIFIED, HAY BARRIERS MAY BE USED IN LIEU OF SILT FENCES.
3. ADDITIONAL POSTS AND RAILS MAY BE NECESSARY TO SECURE AND SUPPORT BARRIERS.
4. ADDITIONAL FENCE LENGTHS MAY BE REQUIRED BY THE ENGINEER OR BY REGULATORY AGENCIES.
5. DO NOT DEPLOY IN A MANNER THAT SILT FENCES WILL ACT AS A DAM ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.