



**ITB #23-015  
Cemetery Road WWTP Ponds  
Expansion**

**Addendum #4  
Revised Site Plan**

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Please see attached (revised) site plan. The city changed the plan to take off the branded product that was used as an example on the information key on pages 27-30 of this original solicitation. Please refer to the updated plan which has the examples removed.

**\*\*THE CITY WILL ACCEPT ANY BRAND WHICH MATCHES THE SPECIFICATION. \*\***

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**ACKNOWLEDGEMENT**

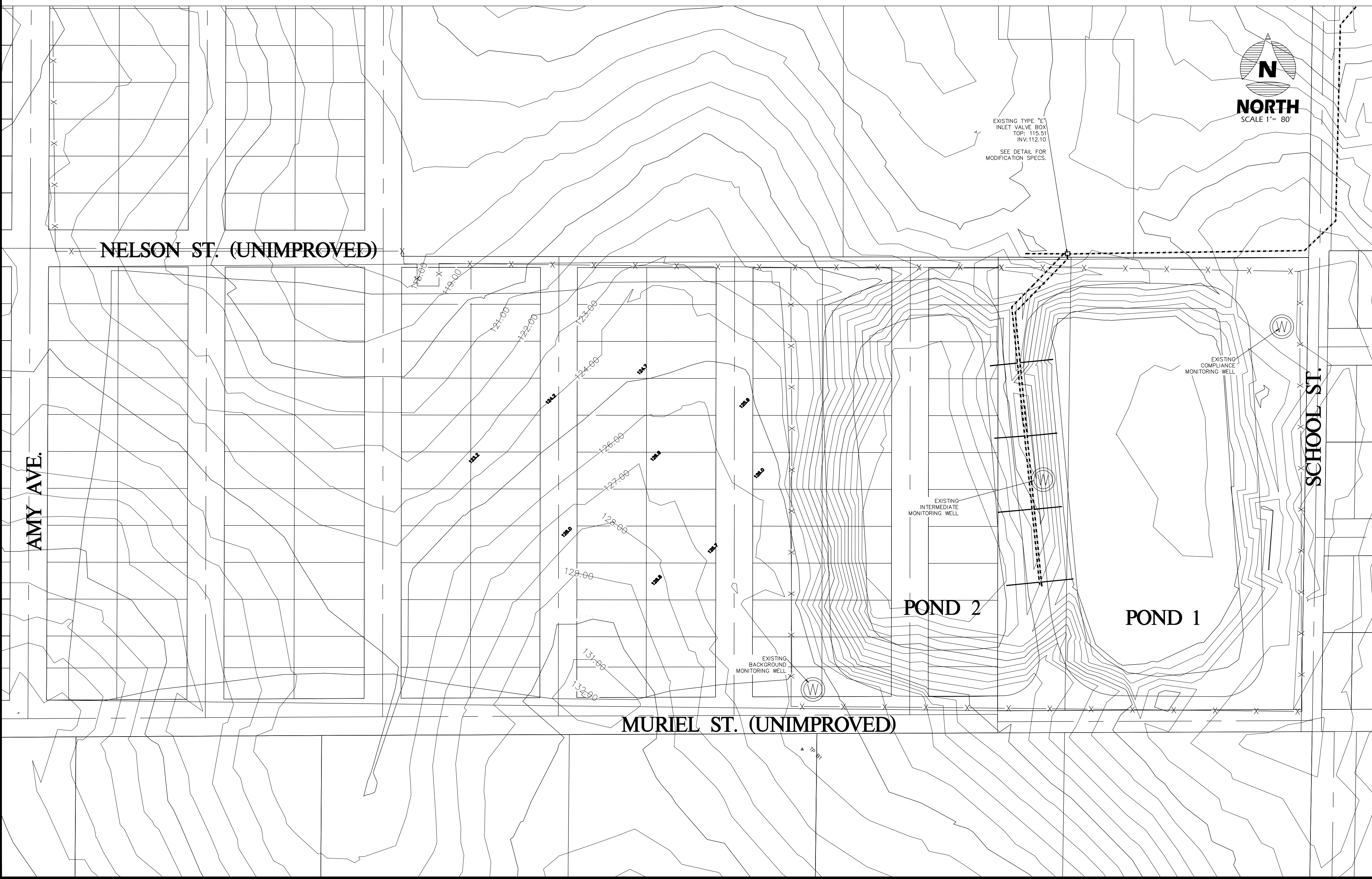
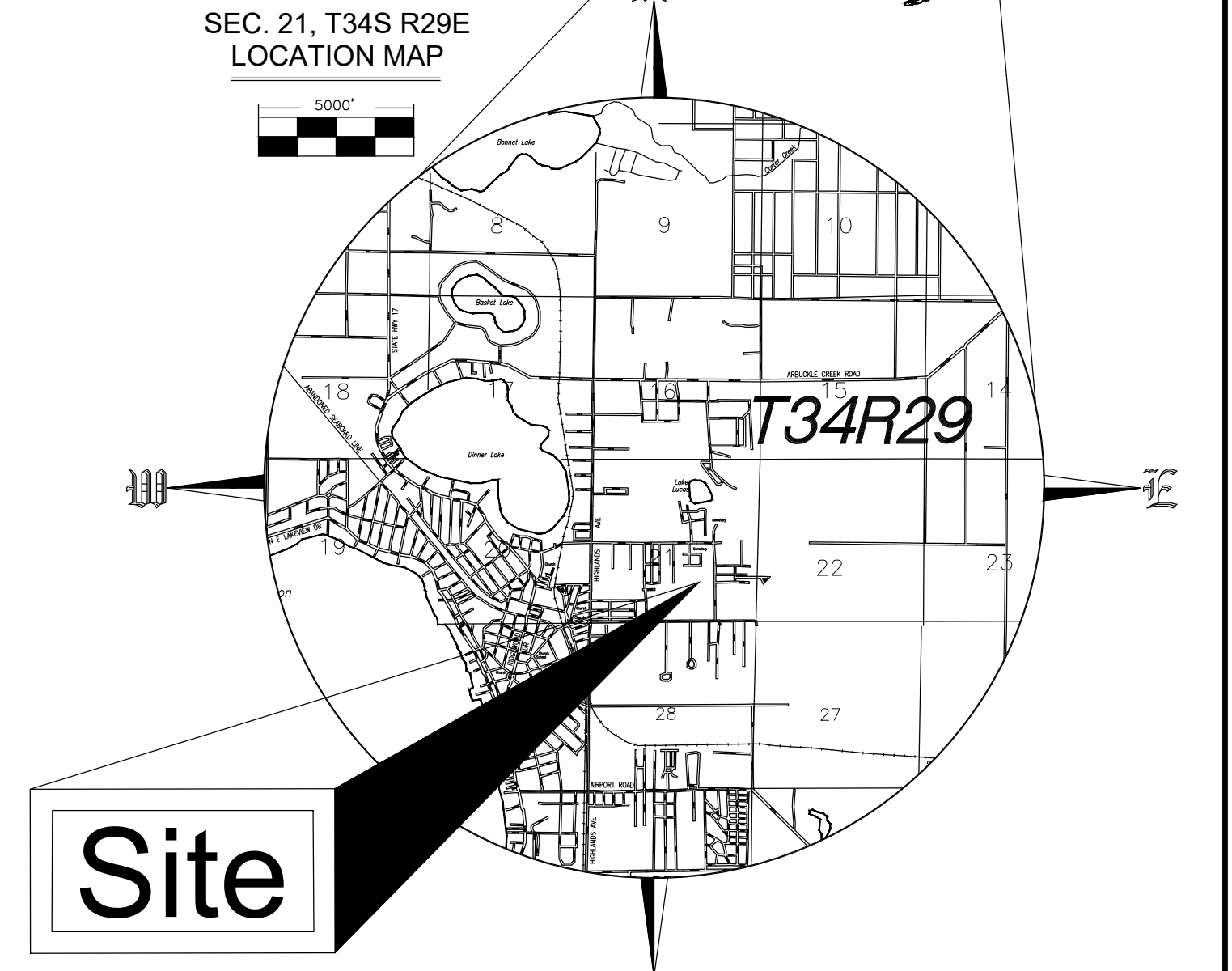
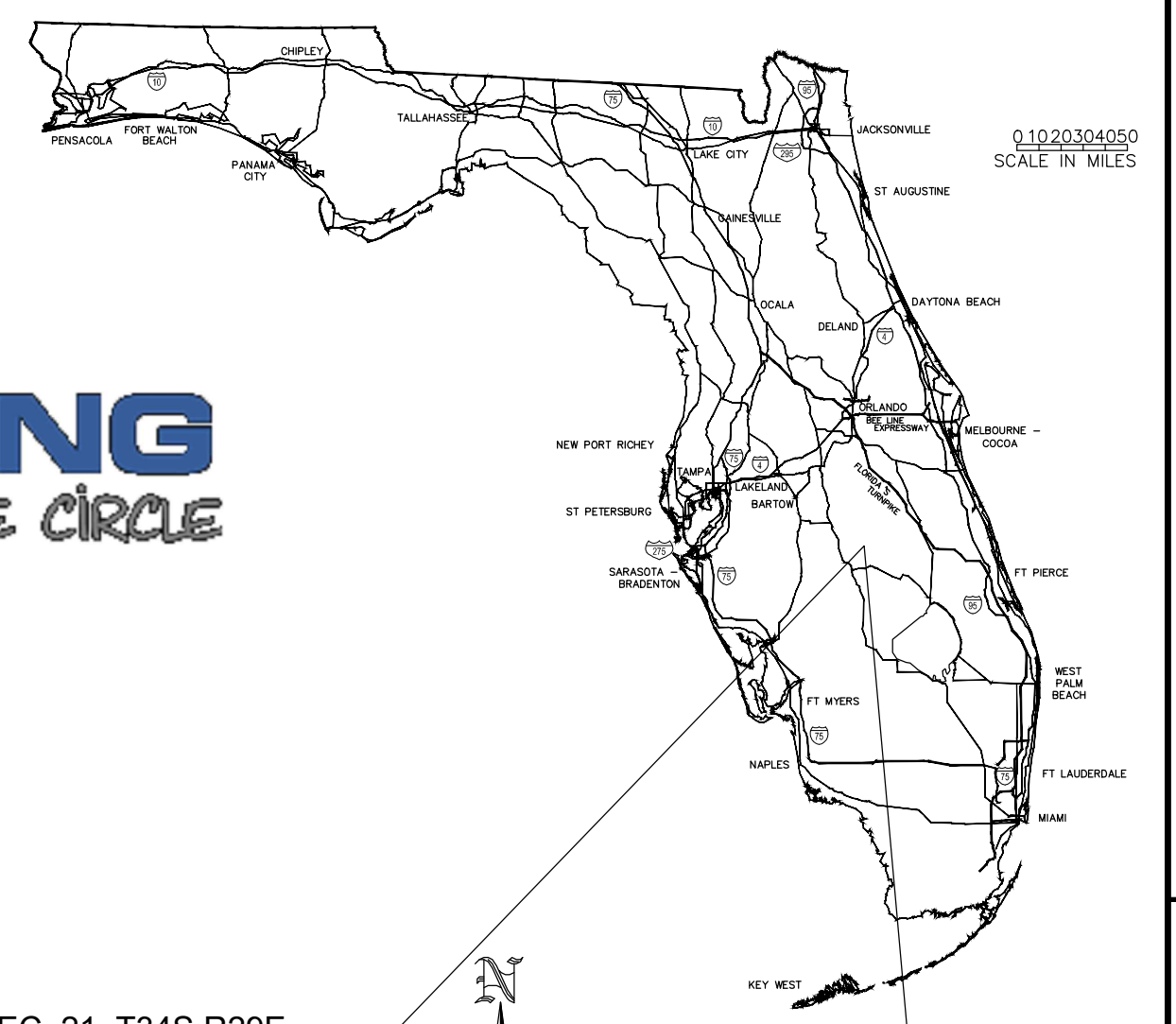
It is the vendor's responsibility to ensure their receipt of all addenda, and to clearly acknowledge all addenda within their initial bid or proposal response in the space provided on the Submittal Checklist included in the original solicitation document. Failure to do so may subject the bidder to disqualification.



| ABBREVIATIONS |                                | SYMBOLS |                              |
|---------------|--------------------------------|---------|------------------------------|
| CL            | CENTER LINE                    |         | DIRECTION OF WATER FLOW      |
| EOP           | EDGE OF PAVEMENT               |         | EXISTING OR PROPOSED GRADE   |
| RW            | RIGHT-OF-WAY                   |         | SOIL BORING LOCATION         |
| SIR           | SET IRON ROD                   |         | PROPOSED STOP SIGN           |
| FIR           | FOUND IRON ROD                 |         | STREET LIGHT                 |
| SCM           | SET CONCRETE MONUMENT          |         | PROPOSED CATCH BASIN         |
| U&D           | UTILITY AND DRAINAGE EASEMENT  |         | WATER VALVE                  |
| RCP           | REINFORCED CONCRETE PIPE       |         | EXISTING POWER POLE          |
| HDPE          | HIGH DENSITY POLYETHYLENE PIPE |         | SILT SCREEN                  |
| T.E.          | TOP ELEVATION                  |         | HYDRANT                      |
| I.E.          | INVERT ELEVATION               |         | BURIED ELECTRICAL            |
| TOS           | TOE OF SLOPE                   |         | EXISTING SANITARY SEWER LINE |
| FF            | FINISHED FLOOR                 |         | EXISTING WATER LINE          |
| SHWL          | SEASONAL HIGH WATER LEVEL      |         | TRAFFIC FLOW ARROW           |
|               |                                |         | CONSTRUCTION FENCE           |
|               |                                |         | ADDENDUM MARKER              |

**NOTE:**  
ELEVATIONS BASED ON NATIONAL GEODETIC SURVEY DATA  
SHEET DESIGNATION - A 657, PID - DJ6765, HIGHLANDS  
COUNTY, FL., ELEVATION OF 161.74 FEET IN NAVD 88 DATUM.

# CONSTRUCTION PLAN FOR: THE CITY OF SEBRING CEMETERY ROAD WWTP POND ADDITIONS



|   |  |  |   |
|---|--|--|---|
| <b>PROJECT:</b>                                   | CITY OF SEBRING CEMETERY RD. WWTP POND ADDITIONS<br>4200 CEMETERY RD.<br>SEBRING, FL 33870<br>SEC. 21, TWP. 34S, RGE. 29E  | <b>CONTRACTOR:</b>   | (TO BE PUT OUT FOR BID)   |
| <b>STRAP NUMBER:</b>                              | S-21-34-29-A00-0010-0000<br>S-21-34-29-030-4010-0010   | <b>SURVEYOR:</b>   | GARY L. GERMAINE<br>GERMAINE SURVEYING, INC.<br>3803 KENILWORTH BLVD.<br>SEBRING, FLORIDA 33870<br>(813) 385-5564   |
| <b>OWNER:</b>                                     | CITY OF SEBRING<br>368 S COMMERCE AVE.<br>SEBRING, FL 33870<br>ATTN: BOB BOGGUS<br>bobboggus@mysebring.com   | <b>TESTING LAB:</b>  | UNIVERSAL ENGINEERING<br>SCIENCES INC.<br>5971 COUNTRY LAKES DRIVE<br>FORT MYERS, FLORIDA 33905<br>(239) 995-1997<br>(239) 313-2347 FAX<br>(OR OTHERS HIRED BY OWNER) |
| <b>ENGINEER:</b>                                  | ROGER DALE POLSTON, P.E.<br>POLSTON ENGINEERING, INC.<br>P.O. BOX 588<br>SEBRING, FL 33871-0588<br>(863) 385-5564<br>(863) 385-2462 FAX<br>dale@polstonengineering.com | <b>ENGINEER'S ESTIMATED CUT AND FILL QUANTITIES:</b><br>CUT: 115,327 CU.YD.<br>FILL: 3,850 CU.YD.<br>NET CUT: 111,478 CU.YD. |   |
| <b>TOTAL OWNED AREA:</b>                          | >1,094,807 SQ.FT. >25 AC.  |  |   |
| <b>TOTAL PROJECT AREA:</b>                        | ±1,094,807 SQ.FT. ±25 AC.  |  |   |
| <b>EXISTING USE:</b>                              | PERCOLATION PONDS  |  |   |
| <b>EXISTING ZONING:</b>                           | S PUB  |  |   |
| <b>EXISTING F.L.U.:</b>                           |  |  |   |
| <b>SOIL TYPE:</b>                                 | ASTATULA SAND  |  |   |
| <b>GROUND COVER:</b>                              | ASPHALT, BUILDINGS, SAND, GRASS  |  |   |
| <b>BUILDING HEIGHT:</b>                           | N/A  |  |   |
| <b>LOCAL, STATE AND FEDERAL PERMITS REQUIRED:</b> | FDEP<br>EXISTING PERMIT NO: FLA014311  |  |   |

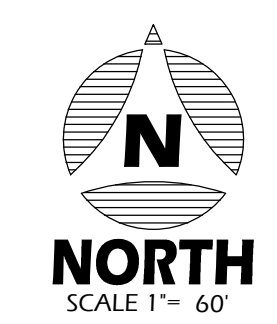
**POND LOADING NOTES:**  
THE RESULTANT PROPOSED RATED FLOW WOULD BE 2.5 MGD OF FLOW TO THE POND SYSTEMS, 1.5 MGD TO THE TWO PROPOSED PONDS AND 1.0 MGD TO THE EXISTING PONDS. ONCE PERMITTED THE EXISTING PONDS CAN BE CONTINUED TO BE LOADED UP TO 1.5 MGD UNTIL 1.5 MGD OF FLOW IS EXCEEDED. THEN THE OPERATORS CAN ADJUST FLOW TO LIMIT THE EXISTING PONDS TO THE 1.0 MGD VIA THE GATE VALVE SYSTEM AND THE REST TO BE SENT TO THE PROPOSED PONDS.

**Important:**  
The information and design shown on these drawings is based on the best available information provided for design. The drawing is to scale as much as possible; however no measurements should be made by scaling from these drawings as some items may be not to scale for drawing clarity. Any questions or conflicts should be brought to the engineer immediately for clarification or resolution. Polston Engineering Inc. shall not be responsible for any errors made by others caused by making assumptions or errors caused by scaling the plans. All construction shall follow the accepted safety procedures and construction techniques as required by any applicable government standards.

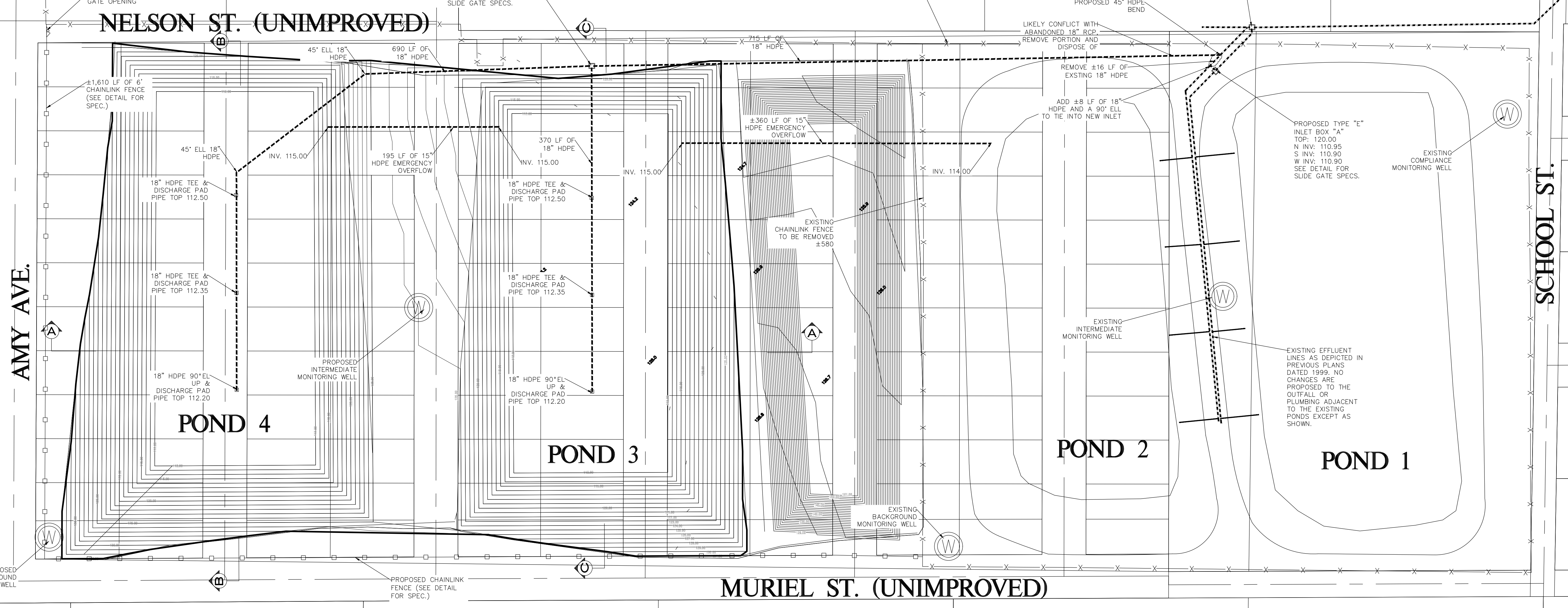
|  |
|--|
| <b>SHEET INDEX</b>   |
| SHEET C1 - EXISTING SITE                                     |
| SHEET C2 - PROPOSED SITE                                     |
| SHEET C3 - DETAILS   |
| SHEET C4 - SPECIFICATIONS                                    |
| <b>Always call 811 TWO FULL BUSINESS DAYS BEFORE YOU DIG</b> |
| <b>Sunshine811.com</b>                                       |

|   |   |
|---|---|
| <p>DATE: 06-29-23<br/>REMARK: ORIGINAL SUBMITTAL</p> <p><b>BID SET</b></p> <p>CERTIFICATE OF AUTHORIZATION # 5684<br/>ROGER DALE POLSTON P.E. # 33222<br/>MARVIN LUTHER WOLFE P.E. # 46030</p> <p>PRINTED COPIES ARE NOT VALID WITHOUT ORIGINAL SIGNATURE AND RAISED SEAL</p> <p><b>Polston Engineering Inc.</b><br/>CIVIL ENGINEERING CONSULTANTS<br/>2925 KENILWORTH BLVD., SEBRING, FLORIDA 33870<br/>863-385-5564 PHONE - 863-385-2462 FAX</p> <p>ENGINEER JOB # <b>01149</b></p> | <p><b>CITY OF SEBRING</b><br/><b>CEMETERY ROAD WWTP</b><br/><b>PERCOLATION POND ADDITIONS</b><br/><b>EXISTING CONDITIONS</b></p> <p>DRAWING SCALE<br/><b>1" = 80'</b><br/>SHEET<br/><b>C1 OF C4</b></p> |
|---|---|

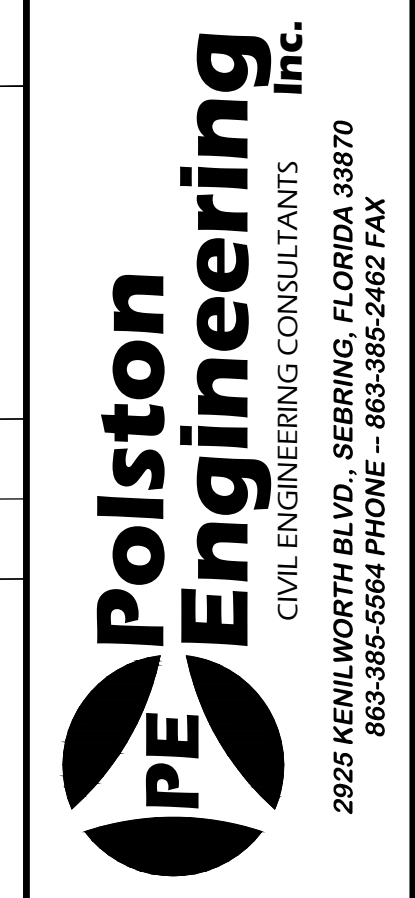




|        |                    |
|--------|--------------------|
| DATE   | 06-29-23           |
| DR     | DRJ                |
| CHK    | RDP                |
| REMARK | ORIGINAL SUBMITTAL |



CERTIFICATE OF AUTHORIZATION # 5684  
 ROGER DALE POLSTON P.E. # 33222  
 MARVIN LUTHER WOLFE P.E. # 46030



ENGINEER JOB #  
**01149**

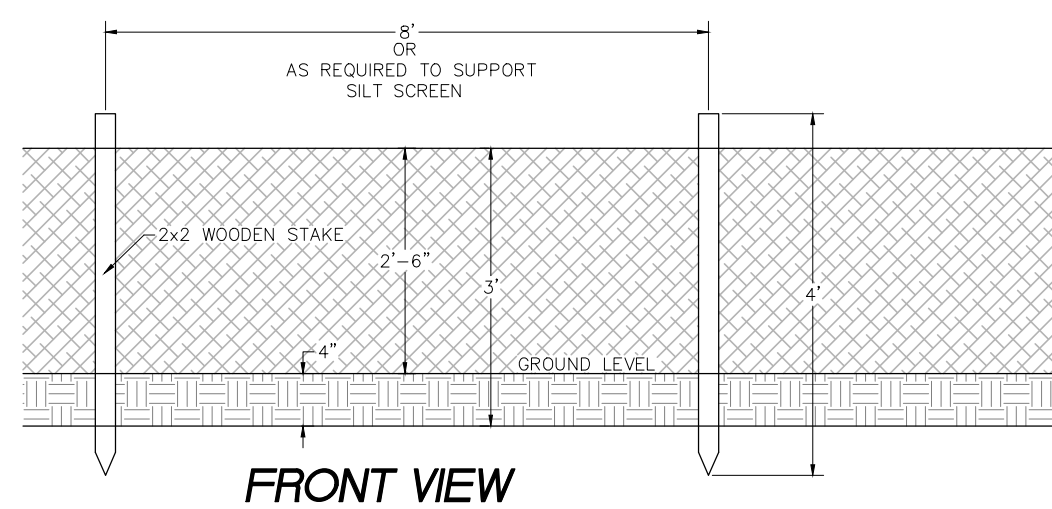
**CITY OF SEBRING**  
**CEMETERY ROAD WWTP**  
**PERCOLATION POND ADDITIONS**  
**PROPOSED POND LAYOUT**

DRAWING SCALE  
**1" = 60'**  
 SHEET  
**C2 OF C4**

**BID SET**

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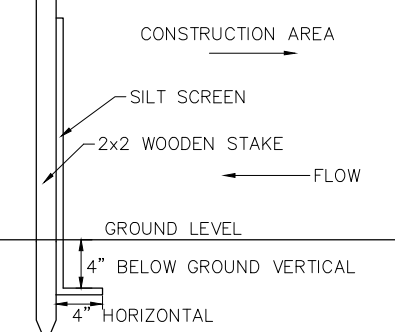
**SILT FENCES**  
THIS WORK SHALL CONSIST OF FURNISHING, INSTALLING, MAINTAINING AND REMOVING TEMPORARY SILT FENCES, IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS, THESE SPECIFICATIONS, THE DETAILS AS SHOWN ON THE DRAWINGS AND THE FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY AND TRAFFIC DESIGN STANDARDS.

SILT FENCES WILL BE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) TYPE III AS DESCRIBED IN FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS, INSTEAD, WITH FILTER FABRIC CONFORMING TO SECTION 985, FOOT STANDARD SPECIFICATIONS.

IN ALL CASES THE FILTER FABRIC WILL BE SECURELY ANCHORED TO THE GROUND OR BURIED IN THE GROUND SO THAT IT WILL NOT BE PUSHED UP BY THE EXPECTED RUNOFF. THE ATTACHMENT TO EXISTING TREES WILL NOT BE PERMITTED.

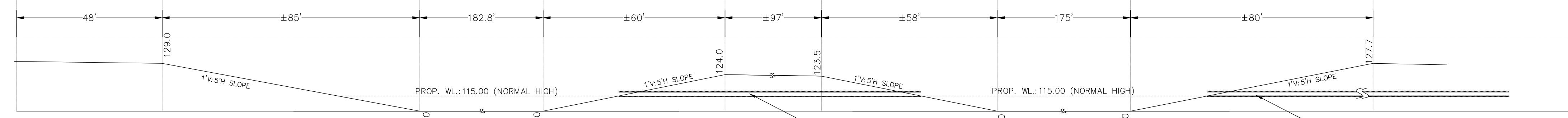
THE CONTRACTOR SHALL, AT HIS EXPENSE, PROVIDE ROUTINE MAINTENANCE OF PERMANENT AND TEMPORARY EROSION CONTROL FEATURES UNTIL THE PROJECT IS COMPLETED AND ACCEPTED. IF SUCH EROSION CONTROL FEATURES MUST BE RECONSTRUCTED DUE TO CONTRACTOR'S NEGLIGENCE OR CARELESSNESS OR, IN THE CASE OF TEMPORARY EROSION CONTROL FEATURES, FAILURE BY CONTRACTOR TO INSTALL PERMANENT EROSION CONTROL FEATURES AS SCHEDULED, SUCH REPLACEMENT SHALL BE AT CONTRACTOR'S EXPENSE.

SILT FENCES MUST BE INSTALLED PRIOR TO ANY CONSTRUCTION AND MUST BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT.

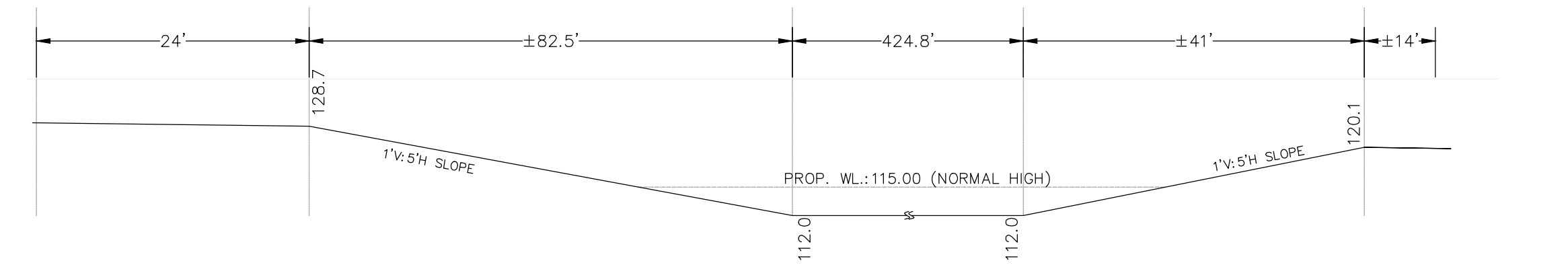


**SECTION**

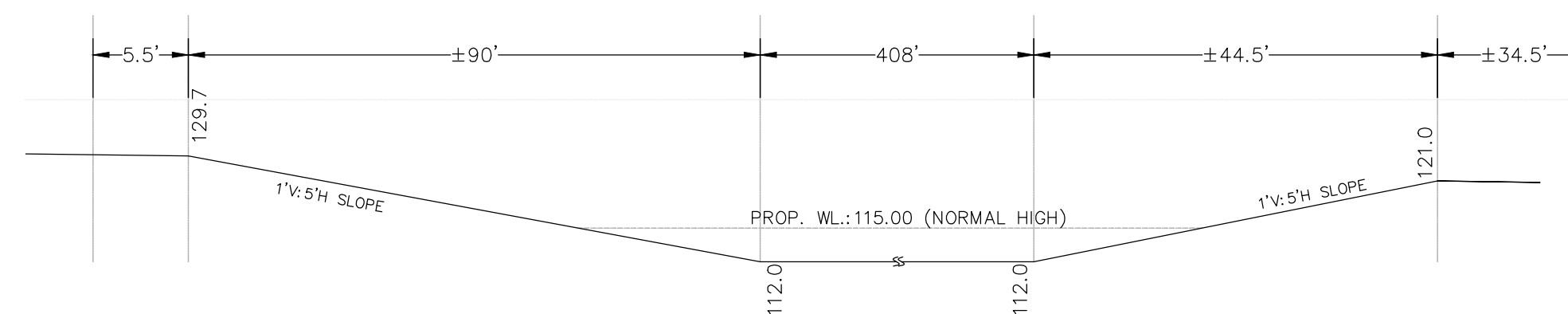
**SILT SCREENS OR FENCES**



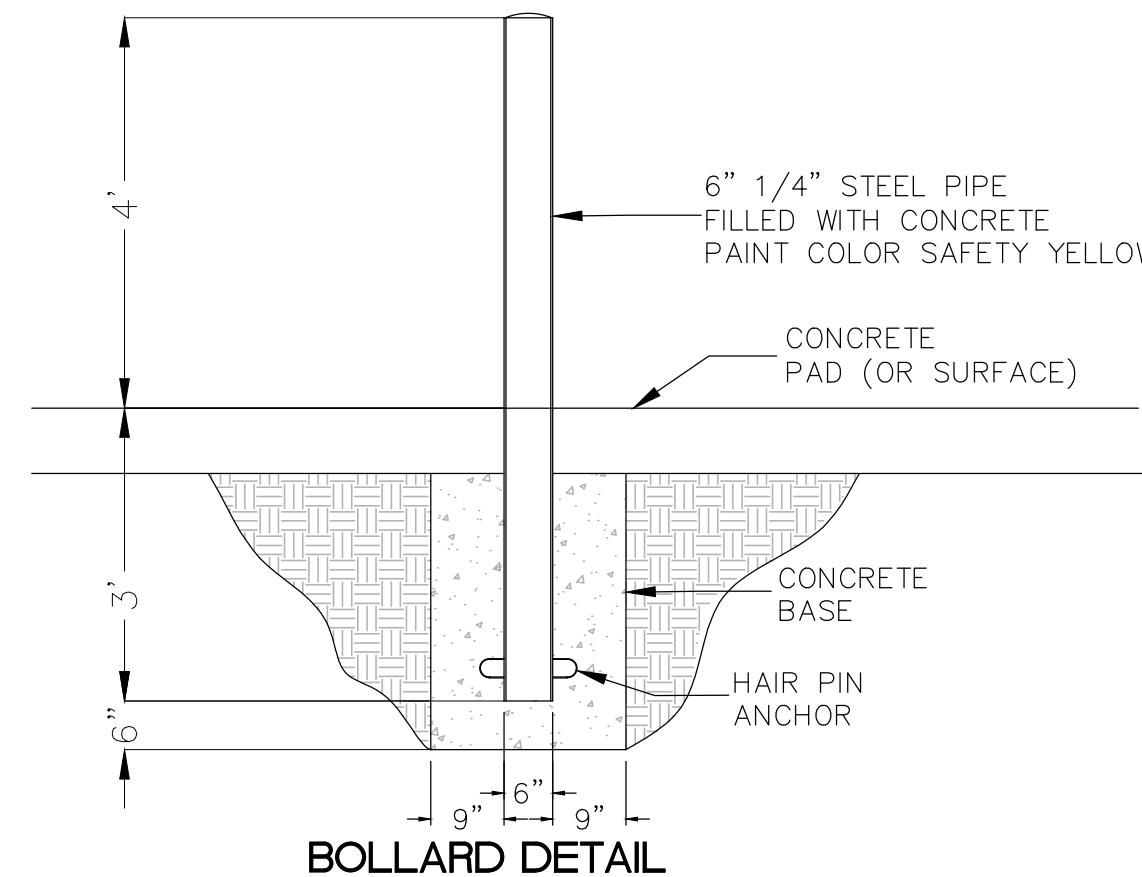
**SECTION A-A**  
TYPICAL SECTION  
N.T.S.



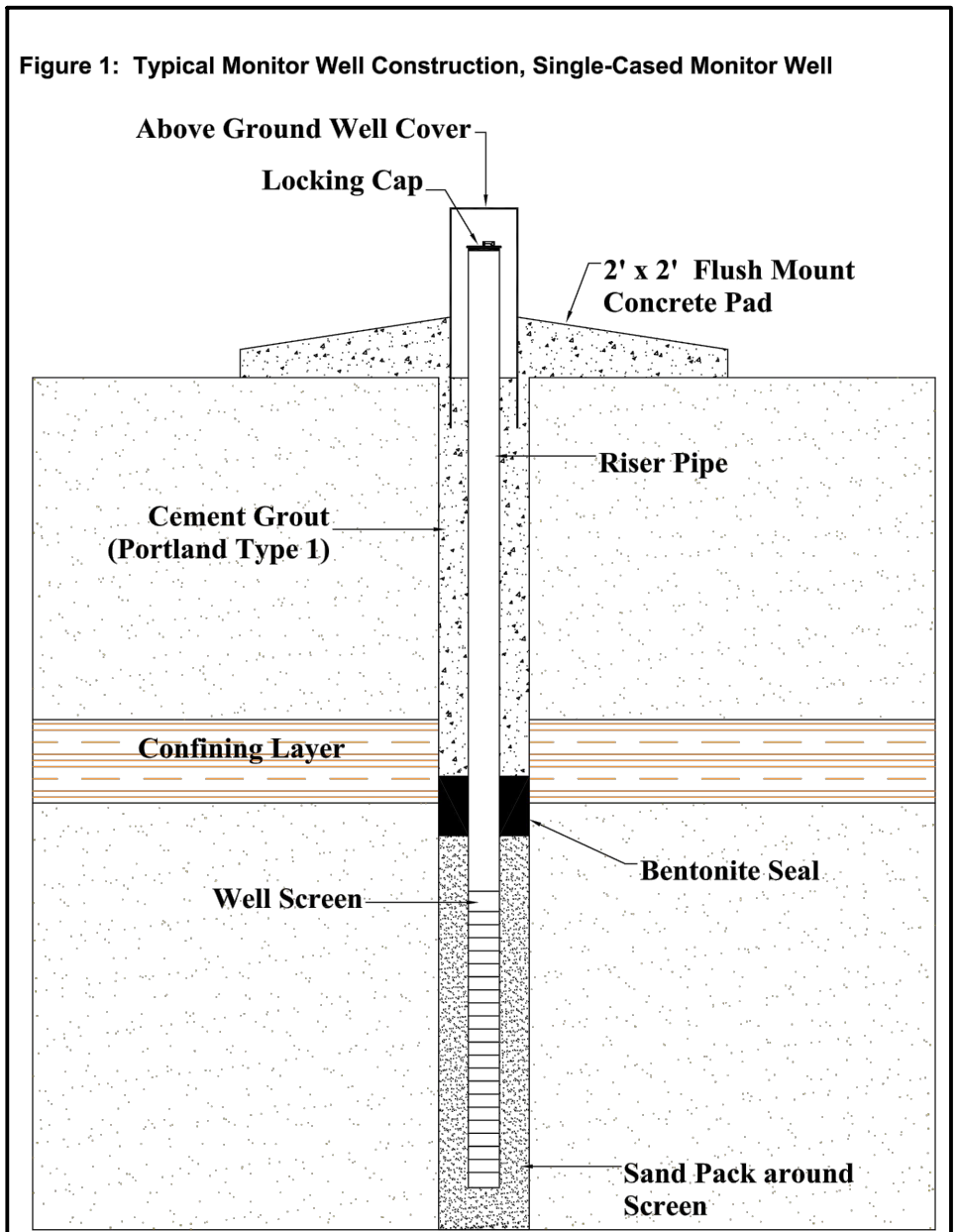
**SECTION B-B**  
TYPICAL SECTION  
N.T.S.



**SECTION C-C**  
TYPICAL SECTION  
N.T.S.

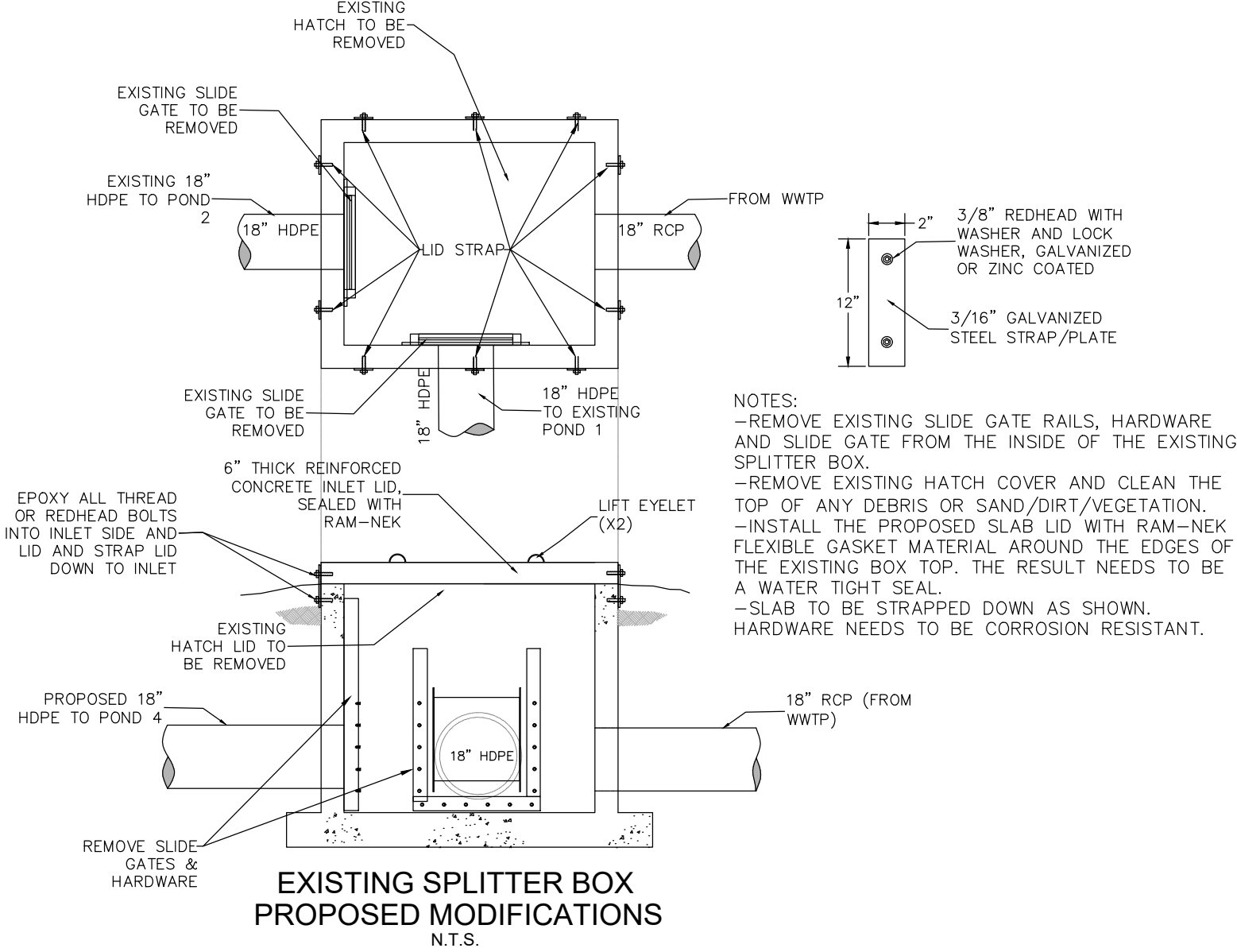


**BOLLARD DETAIL**



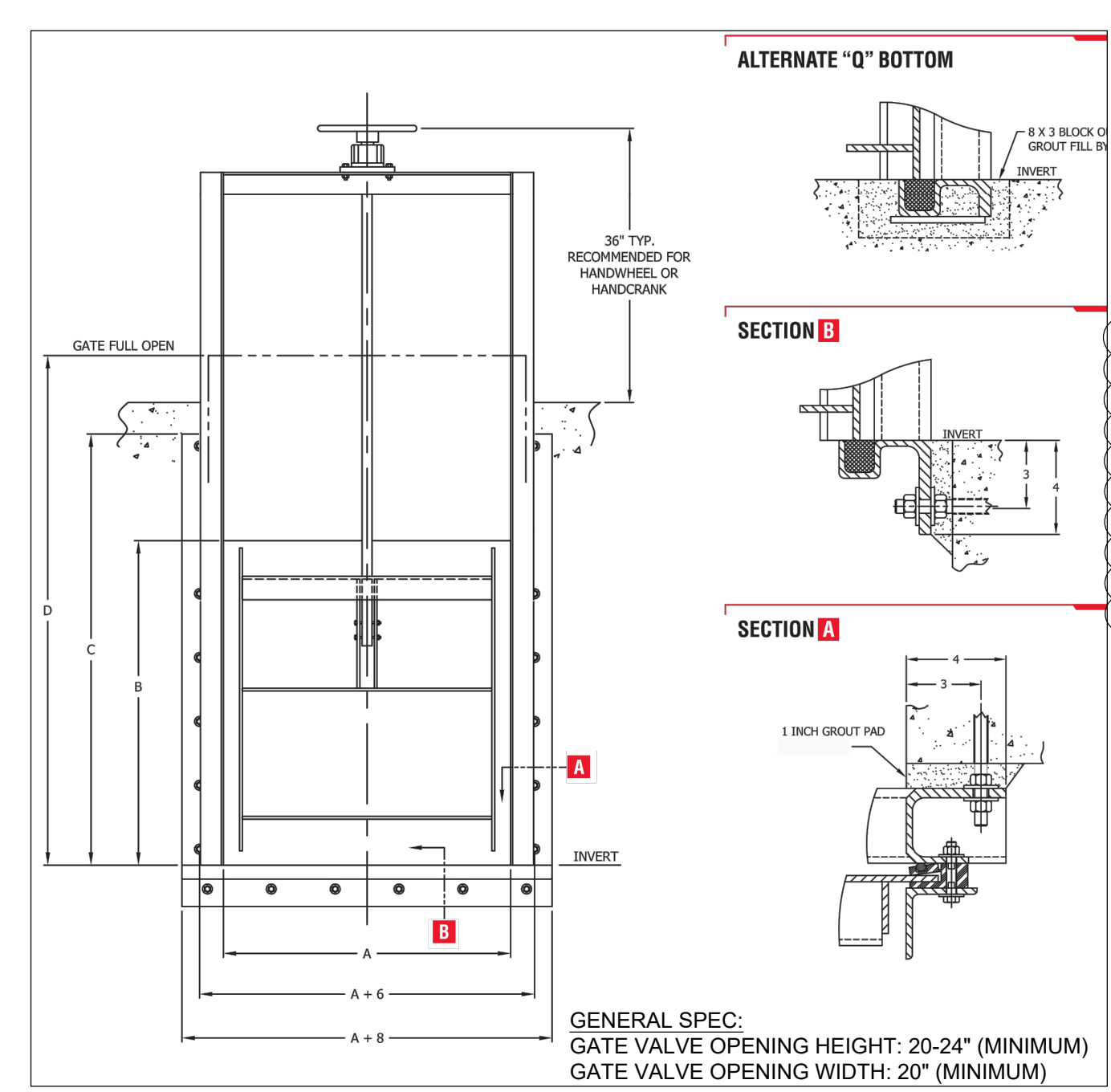
**Figure 1: Typical Monitor Well Construction, Single-Cased Monitor Well**

**MONITORING WELL NOTES:**  
-MONITORING WELL LOCATIONS ARE CONTINGENT ON ISSUED FDEP PERMIT AND MAY CHANGE IN QUANTITY AND LOCATION FROM THE TWO LOCATIONS DEPICTED ON THESE PLANS, UNLESS OTHERWISE NOTED.  
-WELL DEPTH VARIES BY LOCATION OF THE WELL.  
-THE WELLS NEED TO FOLLOW THE FDEP "MONITORING WELL DESIGN AND CONSTRUCTION GUIDANCE MANUAL".  
-IT IS RECOMMENDED THE WELLS INCORPORATE 10 FEET OF SCREEN.  
-THE WELL SCREENS NEED TO STAY WITHIN OR BELOW THE DROUGHT WATER TABLE LEVEL AS TO REMAIN IN THE WATER TABLE FOR TESTING.



**EXISTING SPLITTER BOX PROPOSED MODIFICATIONS**  
N.T.S.

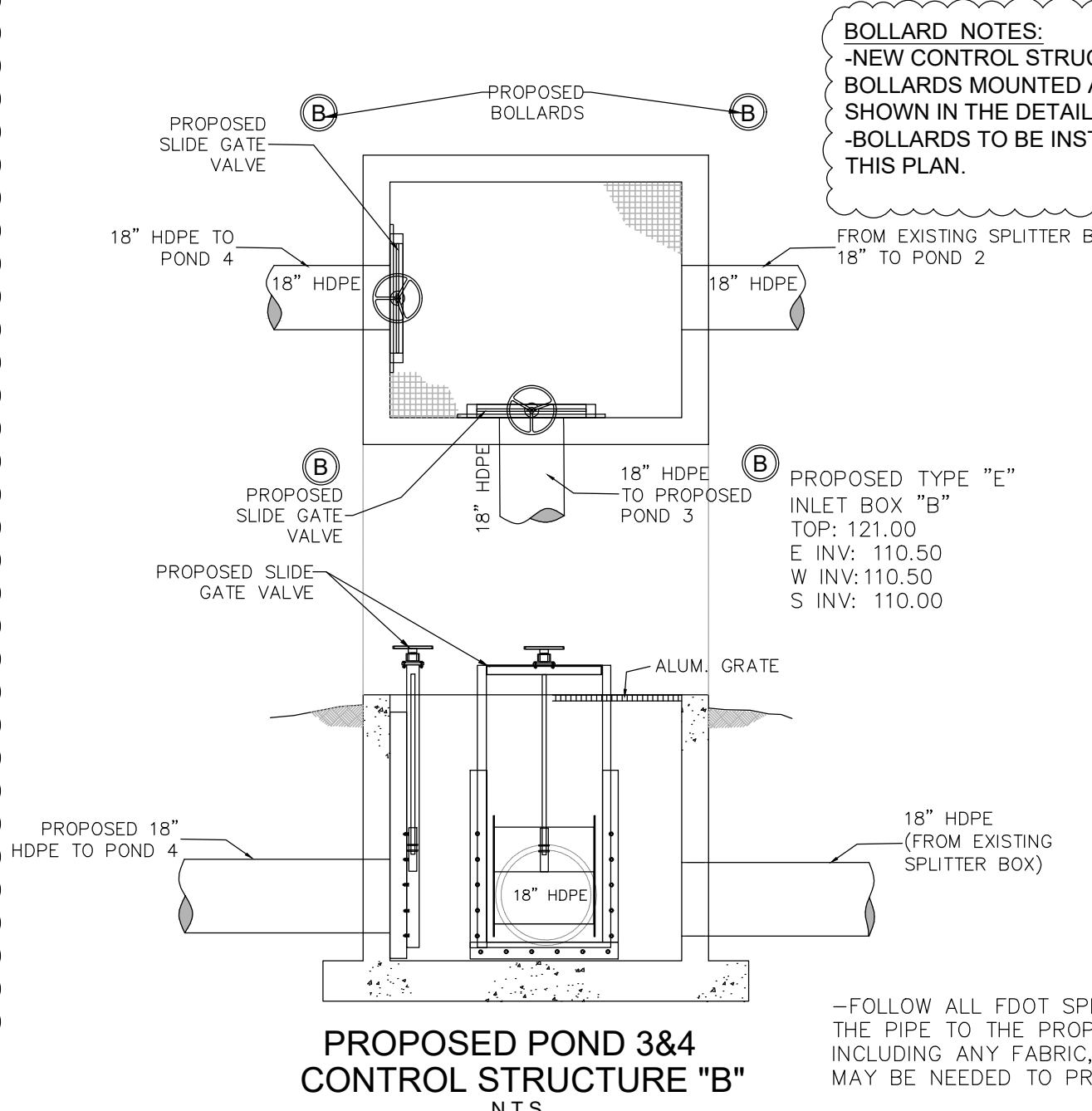
**NOTES:**  
-REMOVE EXISTING SLIDE GATE RAILS, HARDWARE AND SLIDE GATE FROM THE INSIDE OF THE EXISTING SPLITTER BOX.  
-REMOVE EXISTING HATCH COVER AND CLEAN THE TOP OF ANY DEBRIS OR SAND/DIRT/VEGETATION.  
-INSTALL THE PROPOSED SLAB LID WITH RAM-NEK FLEXIBLE GASKET MATERIAL AROUND THE EDGES OF THE EXISTING BOX TOP. THE RESULT NEEDS TO BE A WATER TIGHT SEAL.  
-SLAB TO BE STRAPPED DOWN AS SHOWN. HARDWARE NEEDS TO BE CORROSION RESISTANT.



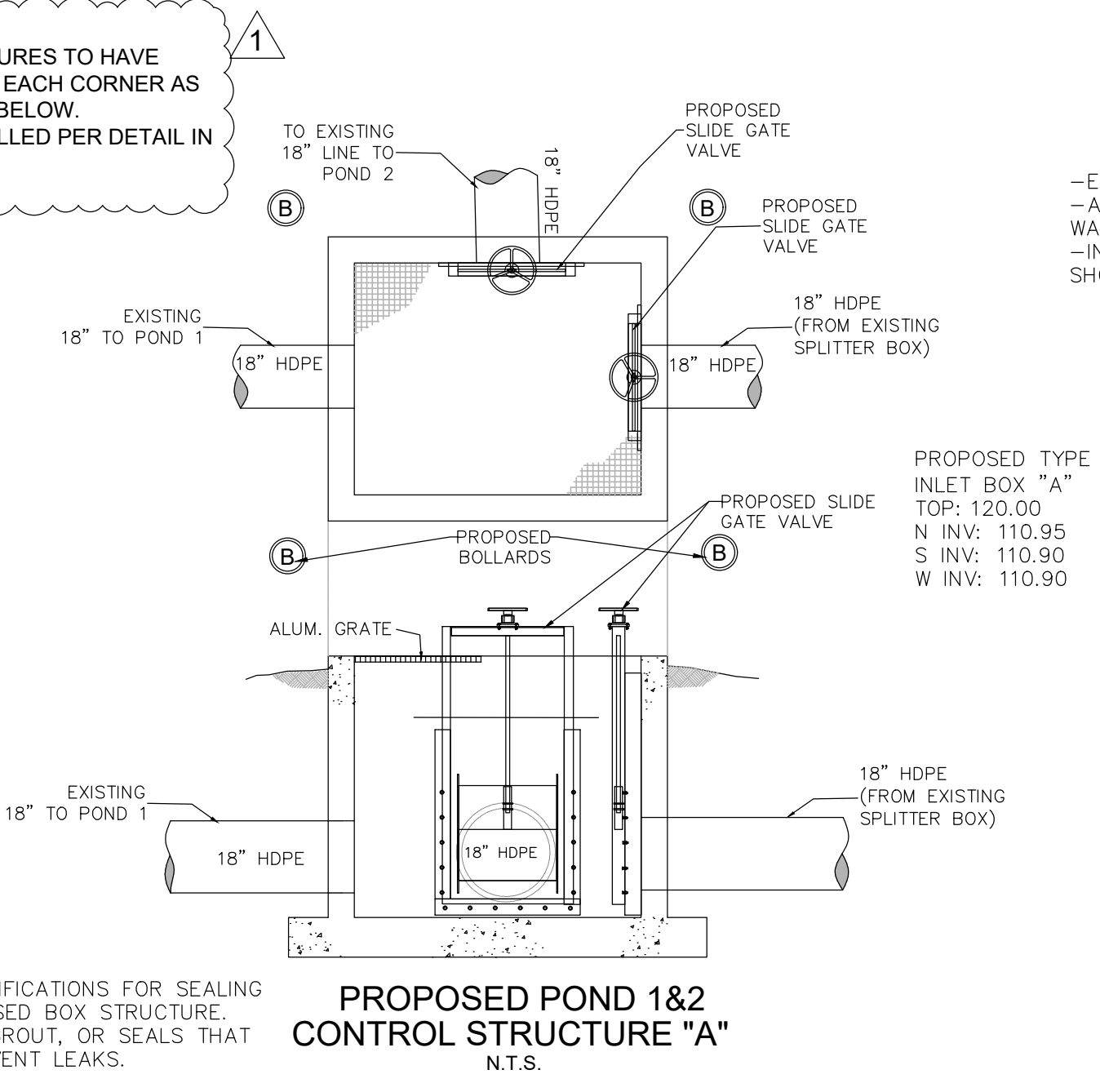
**GATE VALVE ADDENDUM:**  
-NO CHANGES TO THE SPEC OR TYPE OF GATE VALVE AS PART OF THIS ADDENDUM.  
-THE CONTRACTOR MAY SUPPLY ANY BRAND OR MODEL GATE VALVE THAT MEETS THE REQUIREMENTS IN THIS SPECIFICATION.  
-FOLLOW VALVE VENDOR'S SPECIFICATIONS AND DIRECTIONS FOR INSTALLATION.

**GENERAL SPEC:**  
GATE VALVE OPENING HEIGHT: 20-24" (MINIMUM)  
GATE VALVE OPENING WIDTH: 20" (MINIMUM)

**GATE VALVE NOTES:**  
-EXAMPLE GATE VALVE SPEC. SHOWN.  
-MATERIAL NEEDS TO MATCH AS ALUMINUM OR STAINLESS TO PREVENT CORROSION.  
-GATE VALVE NEEDS TO BE ADJUSTABLE AND ABLE TO BE FULLY OPEN AND CLOSED AND INFINITELY IN BETWEEN FOR OPERATOR ADJUSTMENT.  
-ALTERNATE GATE VALVES MUST FOLLOW THE SAME GENERAL SPECIFICATION AND OPERATION.  
-WHEN CLOSED, THE GATE VALVE NEEDS TO STOP >99% OF THE FLOW.



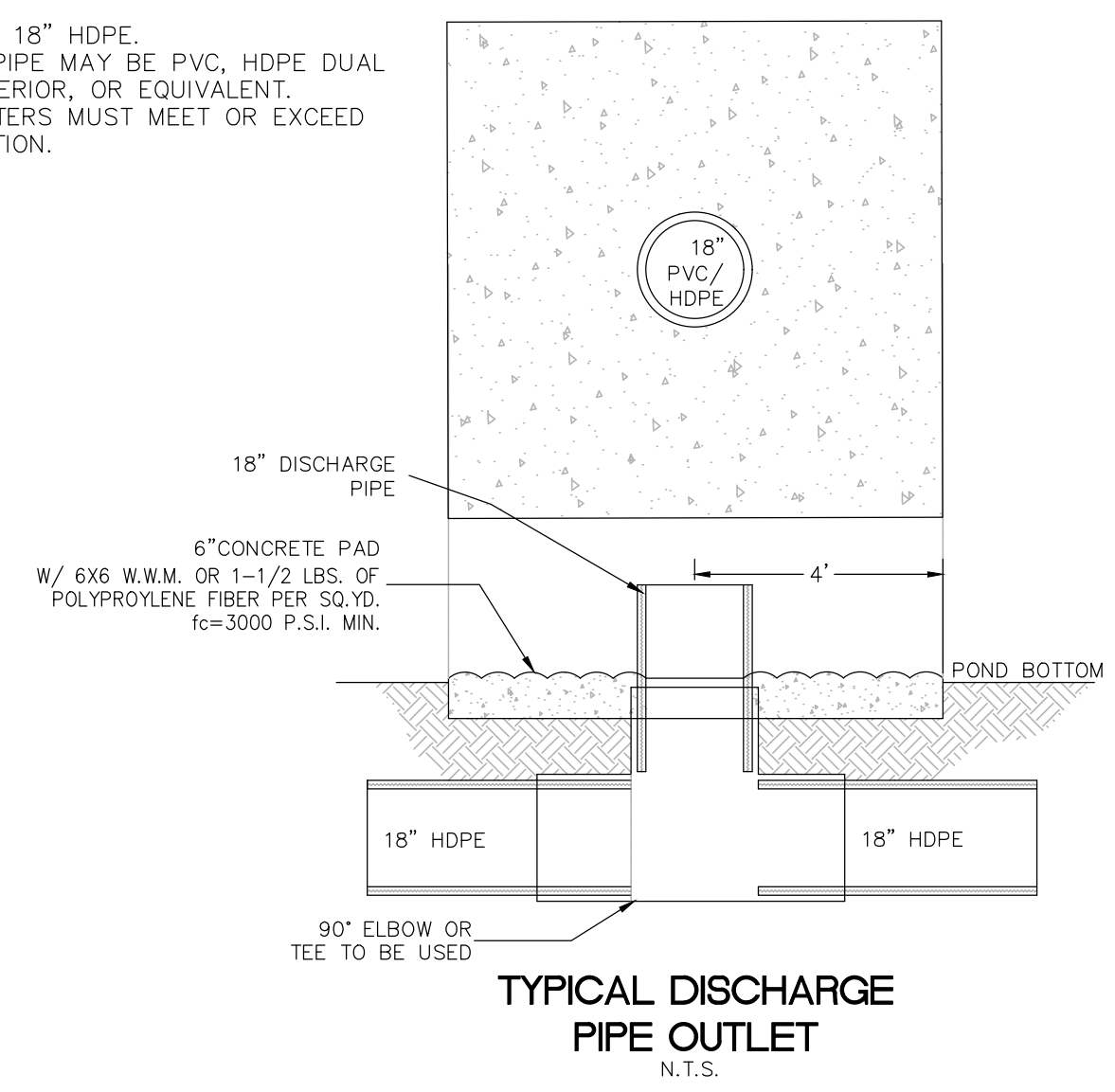
**PROPOSED POND 3&4 CONTROL STRUCTURE "B"**  
N.T.S.



**PROPOSED POND 1&2 CONTROL STRUCTURE "A"**  
N.T.S.

-FOLLOW ALL FDOT SPECIFICATIONS FOR SEALING THE PIPE TO THE PROPOSED BOX STRUCTURE INCLUDING ANY FABRIC, GROUT, OR SEALS THAT MAY BE NEEDED TO PREVENT LEAKS.

-EXISTING PIPE IS 18" HDPE.  
-ALL PROPOSED PIPE MAY BE PVC, HDPE DUAL WALL SMOOTH INTERIOR, OR EQUIVALENT.  
-INTERNAL DIAMETERS MUST MEET OR EXCEED SHOWN SPECIFICATION.



**TYPICAL DISCHARGE PIPE OUTLET**  
N.T.S.

| DATE     | REMARK             |
|----------|--------------------|
| 06-29-23 | ORIGINAL SUBMITTAL |
| 08-21-23 | DETAIL REV.        |

**BID SET**

CERTIFICATE OF AUTHORIZATION # 5684  
ROGER DALE POLSTON P.E. # 33222  
MARVIN LUTHER WOLFEE P.E. # 46930

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**Polston Engineering Inc.**  
CIVIL ENGINEERING CONSULTANTS  
2925 KENILWORTH BLVD., SEBRING, FLORIDA 33870  
863-565-5664 PHONE - 863-565-2402 FAX

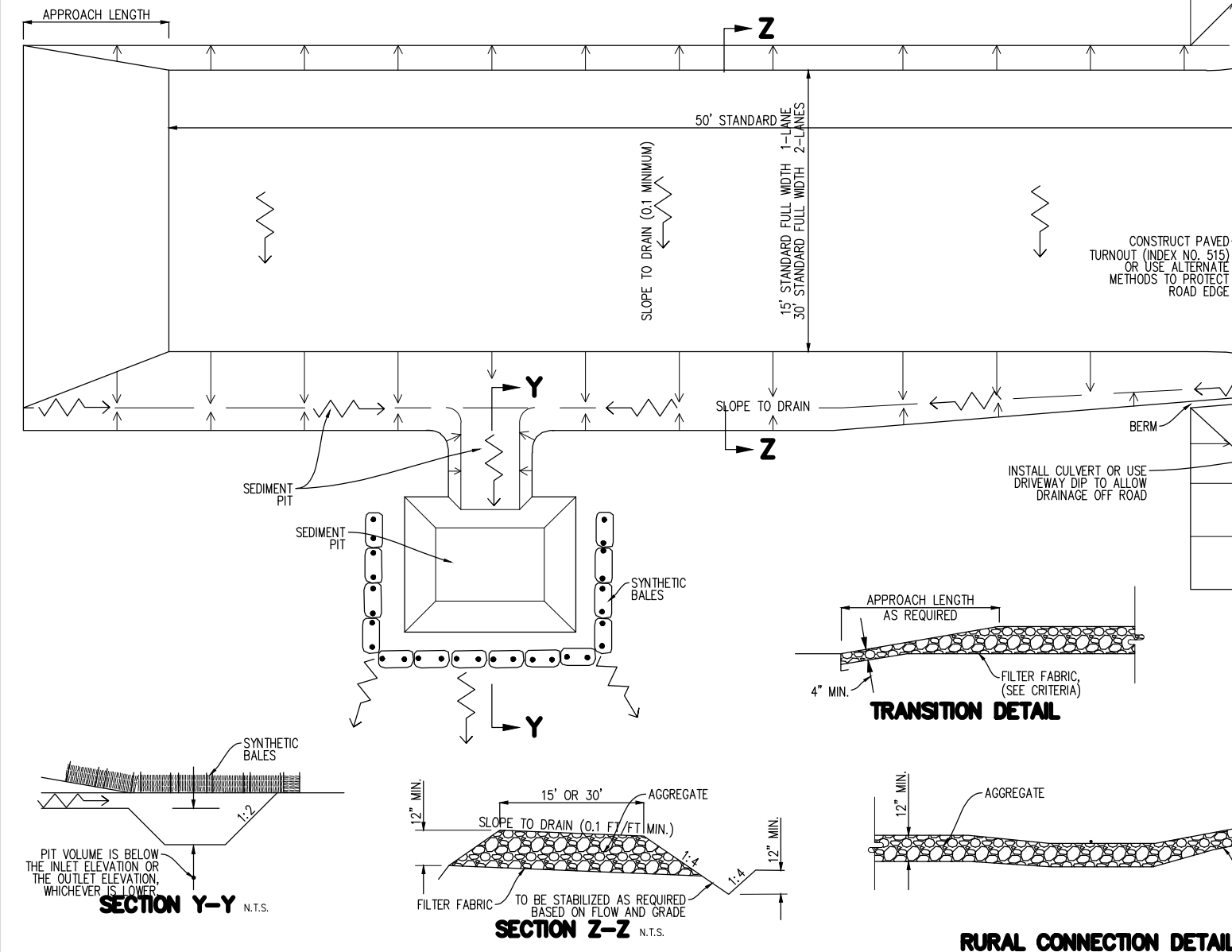
**CITY OF SEBRING**  
**CEMETERY ROAD WWTP**  
**PERCOLATION POND ADDITIONS**  
**CONSTRUCTION DETAILS**

ENGINEER JOB # **01149**

DRAWING SCALE  
**N.T.S.**  
SHEET  
**C3 OF C4**



# CONSTRUCTION ACCESS LOCATION TO BE DETERMINED IN THE FIELD



- GENERAL NOTES**
- A SOIL TRACKING PREVENTION DEVICE (STPD) SHALL BE CONSTRUCTED AT LOCATIONS DESIGNATED BY THE ENGINEER FOR POINTS OF EGRESS FROM UNSTABILIZED AREAS OF THE PROJECT TO PUBLIC ROADS WHERE OFF-SITE TRACKING OF MUD COULD OCCUR. TRAFFIC FROM UNSTABILIZED AREAS OF THE CONSTRUCTION PROJECT SHALL BE DIRECTED THRU A STPD. BARRIERS, FLAGGING, OR OTHER POSITIVE MEANS SHALL BE USED AS REQUIRED TO LIMIT AND DIRECT VEHICULAR EGRESS ACROSS THE STPD.
  - THE CONTRACTOR MAY PROPOSE AN ALTERNATIVE TECHNIQUE TO MINIMIZE OFFSITE TRACKING OF SEDIMENT. THE ALTERNATIVE MUST BE REVIEWED AND APPROVED BY THE ENGINEER PRIOR TO ITS USE.
  - ALL MATERIALS SPILLED, DROPPED, OR TRACKED ONTO PUBLIC ROADS (INCLUDING THE STPD AGGREGATE AND CONSTRUCTION MUD) SHALL BE REMOVED DAILY, OR MORE FREQUENTLY IF SO DIRECTED BY THE ENGINEER.
  - AGGREGATE SHALL BE AS DESCRIBED IN SECTION 901 EXCLUDING 901-2.3. AGGREGATES SHALL BE THE SIZE OF THIS SIZE IF THIS SIZE IS NOT AVAILABLE. THE NEXT AVAILABLE SIZE AGGREGATE MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER. SIZES CONTAINING EXCESSIVE SMALL AGGREGATE WILL TRACK OFF THE PROJECT AND ARE UNSUITABLE.
  - THE SEDIMENT PIT SHOULD PROVIDE A RETENTION VOLUME OF 3600 CUBIC FEET/ACRE OF SURFACE AREA DRAINING TO THE PIT. WHEN THE STPD IS ISOLATED FROM OTHER DRAINAGE AREAS, THE FOLLOWING PIT VOLUMES WILL SATISFY THIS REQUIREMENT:  
 15' x 50' = 100 FT<sup>3</sup>     30' x 50' = 200 FT<sup>3</sup>  
 AS AN OPTION, THE WIDTH OF THE SMALL BOTTOM CAN BE INCREASED TO OBTAIN FIVE VOLUME. WHEN THE SEDIMENT PIT OR SMALL VOLUME HAS BEEN REDUCED TO ONE HALF, IT SHALL BE CLEANED. WHEN A SWALE IS USED, HAY BALES OR SILT FENCE SHALL BE PLACED ALONG THE ENTIRE LENGTH.

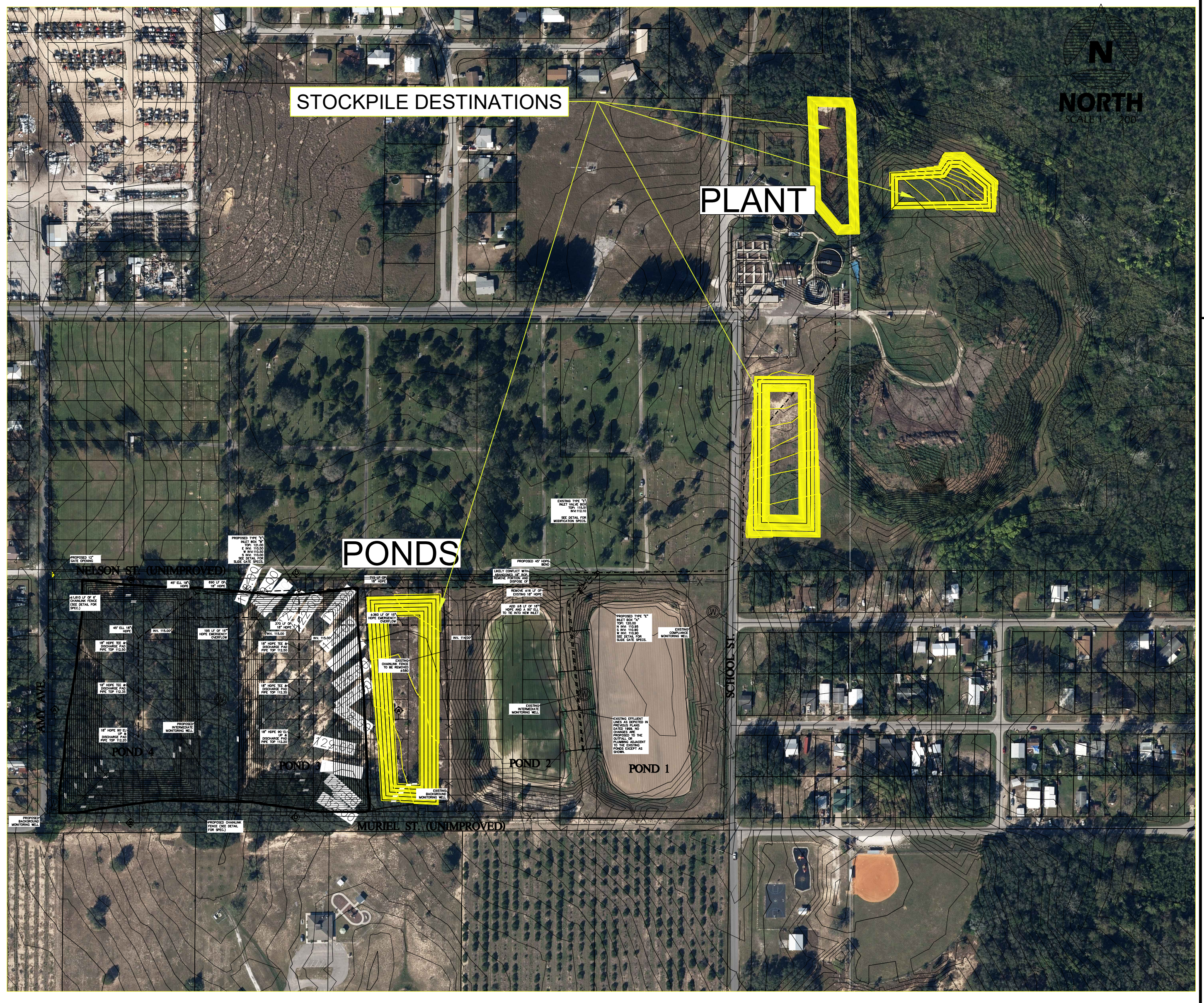
- DIVISION 2. TECHNICAL SPECIFICATIONS FOR CONSTRUCTION WITHIN THE COUNTY RIGHT-OF-WAY.**  
 SEC. 02.200. GENERAL: THE SPECIFICATIONS AND DRAWINGS ARE AN INTEGRATED PART OF THE CONTRACT DOCUMENTS AND AS SUCH WILL NOT STAND ALONE. IF USED INDEPENDENTLY AS INDIVIDUAL PARTS, PARAGRAPHS, OR DRAWING SHEETS, THE DRAWINGS AND SPECIFICATIONS ESTABLISH MINIMUM STANDARDS OF QUALITY FOR A PROJECT. THEY DO NOT PURPORT TO COVER ALL DETAILS ENTERING INTO ITS DESIGN AND CONSTRUCTION OR OF ALL MATERIAL AND EQUIPMENT REQUIRED TO COMPLETE THE WORK.
- SEC. 02.201. MAINTENANCE OF TRAFFIC:**
- CONTROL DEVICES: THE CONTRACTOR SHALL BE REQUIRED TO KEEP THE ENTIRE WORK SITE IN FULL COMPLIANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY AND TRAFFIC DESIGN STANDARDS, CURRENT EDITION AND THE USOT, FHWA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION.
  - DETOURS: DETOURS SHALL REQUIRE APPROVAL BY THE COUNTY ENGINEER. ANY DETOURS APPROVED AS PART OF THE TRAFFIC CIRCULATION PLAN, SHALL BE REQUIRED TO BE PROPERLY POSTED AND A MINIMUM OF 48-HOURS ADVANCE NOTICE SHALL BE GIVEN TO THE COUNTY ENGINEER'S OFFICE, LAW ENFORCEMENT AGENCIES, FIRE DEPARTMENT, SCHOOL BOARD AND EMERGENCY SERVICES. ADVANCE NOTICE SHALL ALSO BE PLACED AT THE LAST INTERSECTION BEFORE THE DETOUR. C. DRIVeways KEPT OPEN: NO BUSINESS WILL HAVE VEHICULAR ACCESS TOTALLY BLOCKED AT ANY TIME. DRIVEWAY ACCESS TO PROPERTY WILL NOT BE BLOCKED FOR MORE THAN 8 HOURS ON ANY DAY. PROPERTY OWNERS WILL BE NOTIFIED IN WRITTEN FORM BY THE CONTRACTOR 24 HOURS PRIOR TO THE BLOCKING OF ANY DRIVEWAY, BUSINESS, OR PROPERTY ACCESS. BLOCKING OF DRIVEWAYS WILL REQUIRE ADVANCE APPROVAL BY THE COUNTY ENGINEER.
  - MAINTENANCE OF TRAFFIC VIOLATIONS: THE COUNTY WILL REPORT ANY KNOWN VIOLATION OF THE REQUIRED MAINTENANCE OF TRAFFIC TO THE OWNER, PROJECT ENGINEER OR CONTRACTOR. CURRENT EDITION AND THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION, AND THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS FOR DESIGN, CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS ON THE STATE HIGHWAY SYSTEM, CURRENT EDITION.
  - TRAFFIC CONTROL PLAN APPROVAL: PRIOR TO THE COMMENCEMENT OF WORK AT THE JOB SITE, THE PROJECT ENGINEER SHALL RECEIVE APPROVAL OF HIS TRAFFIC CONTROL PLAN FROM THE COUNTY ENGINEER. ACCESS FOR LOCAL TRAFFIC SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD OF THE PROJECT.
  - SEC. 02.202. DRIVEWAY INGRESS AND EGRESS MAINTENANCE: THIS SPECIFICATION SHALL ONLY APPLY TO RESIDENCES, BUSINESSES, AND OTHER TYPES OF PROPERTY FRONT ON THE ROAD TO BE CONSTRUCTED, RECONSTRUCTED, AND DRIVEWAY CONNECTIONS ARE TO BE DISRUPTED.
    - A CONTRACTOR WILL BE REQUIRED TO PLACE COMMERCIAL BASE MATERIAL IN DRIVEWAYS AND/OR ACCESS POINTS AFFECTED BY THE PROJECT, WHERE CONSIDERED NECESSARY BY THE PROJECT ENGINEER TO PROVIDE SAFE, STABLE AND REASONABLE ACCESS TO RESIDENCES, BUSINESSES, AND PROPERTY OWNERS.
    - THE MATERIALS TO BE USED FOR DRIVEWAY MAINTENANCE SHALL BE LIME ROCK, STONE OR OYSTER SHELL. THE GRADE AND QUALITY OF THE MATERIAL SHALL BE THAT OFFERED FOR COMMERCIAL SUPPLY IN THE AREA. COMMERCIAL MATERIALS USED IN LOCATIONS WHICH HAVE INADEQUATE DRAINAGE OR ARE PRONE TO BE WET, SHALL BE OF A STABLE CHARACTER, UNFRACTIONATED BY THE COUNTY ENGINEER.
    - THE MATERIAL SHALL BE PLACED IN THE DRIVEWAY AS DIRECTED BY THE PROJECT ENGINEER. THE MATERIAL SHALL BE LEVELLED, MANIPULATED, COMPACTED AND MAINTAINED TO THE EXTENT APPROPRIATE FOR THE INTENDED USE OF THE PARTICULAR DRIVEWAY.
    - AS PERMANENT DRIVEWAY CONSTRUCTION IS ACCOMPLISHED AT A PARTICULAR LOCATION, PREVIOUSLY PLACED COMMERCIAL MATERIALS WHICH ARE SUITABLE FOR REUSE MAY BE SALVAGED AND REUSED ON OTHER DRIVEWAYS AS DIRECTED.
  - SEC. 02.203. CLEARING AND GRUBBING:
    - CLEARING AND GRUBBING SHALL CONSIST OF THE COMPLETE REMOVAL AND DISPOSAL OF ALL TIMBER, BRUSH, VEGETATION, STUMPS, ROOTS, BOLLERS, PAVEMENT, RUBBER AND DEBRIS AND ALL OTHER MATERIALS AND OBSTRUCTIONS TO THE PROPOSED CONSTRUCTION OF THE ROAD AND SHOULDER AND THE SURFACE OF THE ROAD. MATERIALS RESULTING FROM CLEARING AND GRUBBING SHALL BE DISPOSED OF BY THE CONTRACTOR IN A PROPER PLACE.
    - AS AN EXCEPTION TO THE ABOVE PROVISIONS, WHERE SO DIRECTED BY THE PROJECT ENGINEER AND APPROVED BY THE COUNTY ENGINEER, DESIRABLE TREES WITHIN THE ROADWAY RIGHT-OF-WAY SHALL BE TRIMMED, PROTECTED AND LEFT STANDING. BRANCHES AND LIMBS EXTENDING OVER THE AREA OCCUPIED BY THE ROADWAY SHALL BE TRIMMED AS DIRECTED, TO OVE A CLEAR HEIGHT OF 16 FEET ABOVE THE ROADWAY.
    - WITHIN THE RIGHT-OF-WAY AND WITHIN ALL SWALES AND DITCHES, ALL STUMPS, ROOTS, ETC., PROTRUDING THROUGH OR APPEARING ON THE SURFACE OF THE COMPLETED EXCAVATION SHALL BE REMOVED, CUT OFF BELOW THE EXCAVATION SURFACE. WITHIN ALL OTHER AREAS WHERE CLEARING AND GRUBBING IS TO BE DONE, ROOTS AND OTHER DEBRIS, PROJECTING THROUGH OR APPEARING ON THE SURFACE OF THE ORIGINAL GROUND, SHALL BE REMOVED TO A DEPTH OF ONE FOOT BELOW THE BOTTOM OF THE SUBGRADE.
    - BURNING OF SUCH MATERIALS WILL NOT BE ALLOWED WHEN A PROPER BURNING PERMIT CAN BE OBTAINED AND ALL SUCH BURNING SHALL BE SUBJECT TO APPLICABLE LAWS, ORDINANCES AND REGULATIONS AND SHALL BE DONE AT LOCATIONS WHERE TREES AND SHRUBS ADJACENT TO THE CLEARED AREA WILL NOT BE HARMED. BURNING MAY BE DONE IMMEDIATELY IF PERMITS ARE RECEIVED BY THE PROJECT ENGINEER OR THE COUNTY ENGINEER.
  - SEC. 02.204. EARTHWORK: ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION, AND THE FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION, AND THE FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS FOR DESIGN, CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS ON THE STATE HIGHWAY SYSTEM, CURRENT EDITION.
  - SEC. 02.205. ROAD DITCH CHECKS: ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION, AND THE FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS FOR DESIGN, CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS ON THE STATE HIGHWAY SYSTEM, CURRENT EDITION.
  - SEC. 02.206. RIPRAP (SAND-CEMENT): ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION, AND THE FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS FOR DESIGN, CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS ON THE STATE HIGHWAY SYSTEM, CURRENT EDITION.
  - GENERAL: THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN ADVANCE OF THE TIME AND DATE WHEN ANY TESTS CAN BE CONDUCTED, SO THAT THE PROJECT ENGINEER MAY SCHEDULE THE REQUIRED TESTING WITH THE INDEPENDENT TESTING LABORATORY. THE TEST SAMPLES SHALL BE TAKEN BY EITHER AN EMPLOYEE OF THE INDEPENDENT TESTING LABORATORY OR HIS REPRESENTATIVE, IN NO CASE SHALL THE CONTRACTOR TAKE OR PREPARE THE TEST SAMPLES OR THE CONTRACTOR TAKE THE LABORATORY. THE PROJECT ENGINEER SHALL INSPECT ALL CONSTRUCTION AND IS AUTHORIZED TO CALL TO THE ATTENTION OF THE CONTRACTOR ANY FAILURE OF WORK OR MATERIALS TO CONFORM WITH THE PLANS AND SPECIFICATIONS. THE FOLLOWING LABORATORY TESTS OR FIELD MEASUREMENTS AND FREQUENCY OF SUCH SHALL BE MADE IN ACCORDANCE WITH THE PROJECT ENGINEER'S DIRECTION BY THE INDEPENDENT TESTING LABORATORY, AT THE PROJECT EXPENSE, AND IN KEEPING WITH GOOD ENGINEERING PRACTICES. THE CONTRACTOR IS REQUIRED TO CONDUCT AND/OR STOP HIS WORK SO THAT THE APPROPRIATE TESTS, SAMPLES AND MEASUREMENTS CAN BE PROPERLY MADE AND THE CONTRACTOR SHALL FURNISH COPIES OF THE TEST REPORTS FROM THE PROJECT ENGINEER. THE INDEPENDENT TESTING LABORATORY SHALL MAIL OR HAND DELIVER COPIES OF ALL TESTS DIRECTLY TO THE OFFICE OF THE COUNTY ENGINEER.
    - SUB-BASE AND SHOULDER: SUB-BASE AND SHOULDER TESTS SHALL BE MADE AS FOLLOWS:
      - PROCTOR: ONE PER MILE UNLESS THE NATIVE SOILS ARE SIGNIFICANTLY DIFFERENT. IN THAT CASE, ONE PER EVERY MAJOR SOILS TYPE. SAMPLE SHALL BE TAKEN FROM THE ROADWAY AFTER CURVING AND FINING.
      - MUD: EVERY 200 FEET AFTER SUB-BASE AND SHOULDER HAVE BEEN MIXED, AND COMPACTED AND PRIOR TO ANY "BOXING OUT" OPERATION.
      - DEPTH:
        - SUB-BASE: EVERY 200 FEET WITHIN THE AREA TO BE COVERED BY THE BASE MATERIAL AFTER FINAL GRADING AND COMPACTION; JUST PRIOR TO THE PLACEMENT OF THE BASE MATERIAL. TESTS WILL BE CONDUCTED IN A ZIG-ZAG PATTERN COVERING THE ENTIRE AREA DESCRIBED ABOVE.
        - SHOULDER: EVERY 400 FEET, EACH SIDE, WITHIN THE SHOULDER AREA PRIOR TO ANY "BOXING OUT" OPERATION. AFTER MIXING AND COMPACTION, FLORIDA BEARING VALUE (FBV) AT 200 FOOT INTERVALS TAKE THREE SAMPLES. SAMPLES SHALL BE TAKEN FROM ONE FOOT FROM EACH OUTER EDGE OF THE SHOULDER AND ONE FROM WITHIN THE TRAFFIC LANE (AREAS), COMBINE THE TOP 1/2 OF THREE CONSECUTIVE SAMPLES INTO ONE COMPOSITE SAMPLE AND COMBINE THE BOTTOM 1/2 OF THE SAME THREE SAMPLES INTO ANOTHER COMPOSITE SAMPLE. MINIMUM ACCEPTABLE FBV IS 60 PSI. (NO TOLERANCE ACCEPTANCE).
      - DENSITY:
        - SUB-BASE: EVERY 200 FEET, IN A ZIG-ZAG PATTERN, AND JUST PRIOR TO THE PLACEMENT OF THE BASE. EVERY OTHER TEST WILL BE MADE AT THE PROPOSED EDGE OF PAVEMENT, MINIMUM ACCEPTABLE VALUE: 95% DENSITY PER AASHTO T-180.
        - SHOULDER: EVERY 400 FEET, ONE TO TWO FEET FROM THE OUTSIDE EDGE OF THE SHOULDER, ON EACH SIDE OF THE ROAD, DENSITY SAMPLES SHALL BE TAKEN JUST PRIOR TO THE "BOXING OUT" OPERATION FOR THE BASE. MINIMUM ACCEPTABLE VALUE: 95% DENSITY PER AASHTO T-180.
    - FAILURE: ANY FAILURE REVEALED BY THE REQUIRED FIELD MEASUREMENTS AND LABORATORY TESTS REQUIRING ADDITIONAL MATERIAL SHALL REQUIRE THE CONTRACTOR TO SCARP THE EXISTING MATERIAL, PLACE THE ADDITIONAL MATERIAL, AND THEN RE-SHAPE AND RE-COMPACT THE SUB-BASE FOR A MINIMUM DISTANCE OF 50 FEET EACH SIDE OF THE FAILURE. DENSITY TESTS WILL REQUIRE ADDITIONAL COMPACTION A MINIMUM OF 50 FEET EACH SIDE OF THE FAILURE.
    - PLACEMENT OF THE BASE: THE BASE SHALL BE PLACED ON THE SUB-BASE ONLY AFTER COPIES OF THE RESULTS OF THE REQUIRED FIELD MEASUREMENTS AND LABORATORY TESTS HAVE BEEN PROVIDED BY THE PROJECT ENGINEER.
    - BASE (LIME ROCK OR SHELL ROCK): TESTS FOR THE BASE SHALL BE MADE AS FOLLOWS:
      - MATERIAL: FOR MATERIAL WHOSE SOURCE IS NOT APPROVED AND CERTIFIED MINS. PIT. SUBMITTAL OF COPIES OF THE PIT CERTIFICATION SHALL BE REQUIRED. FOR MATERIAL FROM ANOTHER SOURCE, SUBMITTAL OF TEST RESULTS FROM AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH THE BASE MATERIAL TESTING PLAN, APPROVED IN ADVANCE BY THE COUNTY ENGINEER, SHALL BE REQUIRED.
      - PROCTOR: ONE PER MILE UNLESS THE BASE MATERIAL CHANGES IN QUALITY. SAMPLE MUST BE TAKEN FROM AN ON-SITE STOCKPILE.
      - MUD: DEPTH, CROWN: EVERY 200 FEET AS SHOWN ON PLANS. SEE TYPICAL SECTIONS FOR MINIMUM REQUIREMENTS.
      - DENSITY: EVERY 200 FEET IN A ZIG-ZAG PATTERN WITHIN THE AREAS TO BE COVERED BY PAVEMENT, MINIMUM ACCEPTABLE VALUE: 95% DENSITY PER AASHTO T-180.
      - FAILURE: ANY FAILURES OF THE BASE REVEALED BY THE REQUIRED FIELD MEASUREMENT AND LABORATORY TESTS REQUIRING ADDITIONAL BASE MATERIAL SHALL REQUIRE THE CONTRACTOR TO SCARP THE EXISTING BASE MATERIAL, PLACE THE ADDITIONAL MATERIAL, AND THEN RE-SHAPE AND RE-COMPACT THE BASE FOR A MINIMUM DISTANCE OF 50 FEET EACH SIDE OF THE FAILURE. DENSITY TESTS FOR THE BASE WILL REQUIRE ADDITIONAL COMPACTION A MINIMUM OF 50 FEET EACH SIDE OF FAILURE.

**CONSTRUCTION NOTES**

- ELEVATIONS SHOWN ARE A REPRESENTATION OF FIELD CONDITIONS AND IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY INFORMATION IN FIELD. THE INTENT FOR THE PROPOSED CONSTRUCTION IS TO MATCH THE EXISTING SLOPE OF THE ROADWAY AND SHOULDERS (UNLESS SHOWN OTHERWISE).
- THESE PLANS HAVE BEEN DRAWN TO DEPICT THE REQUIRED CONSTRUCTION WITHIN THE PROJECT AREA. IN CERTAIN CASES, THE SIZE AND/OR LOCATION OF PROPOSED CONSTRUCTION HAS BEEN BLOWN-UP TO SHOW ITEMS. THEREFORE, LOCATIONS ON THE DRAWINGS MAY NOT BE EXACT AND SHOULD NOT BE SCALED FOR CONSTRUCTION. ITEMS SUCH AS INLETS, CULVERTS, MITERED END SECTIONS, SIGNS, STRIPPING, TURN LANES, SLOPES ETC. WILL NEED TO BE CONSTRUCTED USING EXISTING SITE CONDITIONS AND CURRENT F.D.O.T. CONSTRUCTION REQUIREMENTS AND REGULATIONS.
- THE TOPOGRAPHY SHOWN FOR PROJECT IS A REPRESENTATION OF FIELD CONDITIONS. THE DESIGN OF THIS PROJECT IS BASED ON THE TOPOGRAPHY PROVIDED. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY INFORMATION IN FIELD. ANY DISCREPANCIES BETWEEN THE DESIGN TOPOGRAPHY AND FIELD CONDITIONS DURING CONSTRUCTION SHOULD BE BROUGHT TO THE ENGINEER OF RECORDS ATTENTION IMMEDIATELY SO THAT ALTERATIONS IN THE DESIGN CAN BE MADE TO FIT THE FINAL SITE CONSTRUCTION INFORMATION WITHIN THE GOVERNING REGULATIONS.
- THE INFORMATION AND DESIGN SHOWN ON THESE DRAWINGS IS BASED ON THE BEST AVAILABLE INFORMATION PROVIDED FOR DESIGN. THE DRAWING IS TO SCALE AS MUCH AS POSSIBLE; HOWEVER NO MEASUREMENTS SHOULD BE MADE BY SCALING FROM THESE DRAWINGS AS SOME ITEMS MAY NOT BE TO SCALE FOR DRAWING CLARITY. ANY QUESTIONS OR CONCERNS SHOULD BE BROUGHT TO THE ENGINEER IMMEDIATELY FOR CLARIFICATION OR RESOLUTION. POLSTON ENGINEERING INC. SHALL NOT BE RESPONSIBLE FOR ANY ERRORS CAUSED BY OTHERS CAUSED BY MAKING ASSUMPTIONS ABOUT THE PLANS OR ERRORS CAUSED BY SCALING THE PLANS. ALL CONSTRUCTION SHALL FOLLOW THE ACCEPTED SAFETY PROCEDURES AND CONSTRUCTION TECHNIQUES AS REQUIRED BY ANY APPLICABLE GOVERNMENT STANDARDS.
- THE EXISTING UTILITY LINES ARE SHOWN ON THESE DRAWINGS AND REPRESENT INDICATION ONLY. FIELD INVESTIGATION FOR EXACT LOCATIONS IS REQUIRED AND WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL CONSTRUCTION WITHIN THE FOOT RIGHT-OF-WAY IS TO BE IN ACCORDANCE WITH THE CURRENT FOOT STANDARD SPECIFICATIONS FOR ROADWAY CONSTRUCTION AND THE ROADWAY AND TRAFFIC DESIGN STANDARD INDEX.
- ALL DISTURBED PREVIOUSLY IMPROVED AREAS WILL BE COMPLETELY RESTORED TO ORIGINAL CONDITIONS, THIS INCLUDES SOODING, LANDSCAPING, IRRIGATION SYSTEMS, STRUCTURES, ETC.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE OF TRAFFIC DURING THE DURATION OF CONSTRUCTION. ALL SAFETY PRECAUTIONS DURING CONSTRUCTION MUST MEET F.D.O.T. SPECIFICATIONS. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND IMPLEMENTING A TRAFFIC CONTROL PLAN DURING THE DURATION OF CONSTRUCTION WITHIN THE RIGHT OF WAYS.
- ALL CONCRETE USED WILL BE 3000 PSI (MINIMUM).

ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN ALTERED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

# ON SITE AND NEARBY MATERIAL STORAGE DESTINATION LOCATIONS



- FENCING SPECIFICATIONS:**  
**CHAIN LINK**  
**Material Specifications**
- Fence fabric: Six foot heights, knuckled top and bottom, 9 gauge steel with galvanized coating.
  - Posts: Intermediate line posts: Six foot high runs shall use 3" O.D. posts. All posts schedule SS40 galvanized. Terminal and corner posts: Six foot high runs shall use 3" posts, all posts to be no less than schedule SS40 galvanized.
  - Top Rail: 1 5/8" O.D. schedule SS40 galvanized pipe.
  - Tension Bars: Minimum 3/16" x 5/8" flat galvanized metal to be provided at each end, corner and gate post. Lengths to match fabric heights.
  - Tension Wire: Tension wire of 7 gauge galvanized spring coil to be used on bottom of fence. Use hog rings to attach to bottom of fabric at 24" O.C.
  - Tension Bands: Minimum 1/4" width x 14 gauge bands, galvanized after fabrication. Each band installed with a 5/16" x 1 1/4" galvanized carriage bolts and nuts. Minimum bands required is one less than height of fabric with each tension bar, i.e. 5 to be used at 6' applications.
  - Sleeves: For top rail couplings, minimum length of 6' galvanized steel. May be inside or outside pipe.
  - Caps: Pressed steel or malleable, may be dome or flat type, to be installed on all end, corner and gate posts.
  - Sockets: Pressed steel or malleable, galvanized, to be provided on all line posts.
  - Loops (Rail ends): Pressed steel or malleable, galvanized, to be used with brace bands for bracing of top rail.
  - Ties: The wires of aluminum to be 9 gauge. To be used as fabric ties on line posts, fabric ties along top rail and could be used to tie to bottom tension wire. All ties to be installed so wires gauge to be installed by fingers alone and all ends of the twisted wire shall face down. Steel ties may be used with prior permission.
  - Gates: All gates shall be furnished and installed with similar specification as fence material, be of proper design and pipe size bracing for the size gate specified. SS20 galvanized piping can be used on the gate frames. Each gate provided will include not only the gate, but also the gate and latch posts specified below, two industrial galvanized hinges, allowing nearly a 180 degree swing and one appropriately sized latch fork and drop rod. All swing gates will receive the installation of a duckbill gate keeper to hold each respective gate open.

- MINIMUM INSTALLATION REQUIREMENTS**
- Intermediate line posts shall be placed not more than ten (10) feet apart, plumb and in a vertical position. All posts shall be set in concrete four times the diameter of the post to a depth no less than twenty-one (21) inches.
  - All end, corner, terminal and gateposts shall be plumb and vertical. Posts shall be set in concrete four times the diameter of the posts at a depth no less than thirty-three (33) inches, deeper if application dictates it.
  - Any change in directions of fifteen (15) degree shall transition from a corner post with the fabric independently stretched.
  - The fabric shall be stretched tight from terminal posts. The fabric shall be fastened to line posts by ties spaced approximately fifteen (15) inches apart. It shall be fastened to top rails by ties spaced approximately twenty-four (24) inches apart. The fabric shall be placed outside of the line posts. It shall be cut and fastened to each terminal post independently by tension bars with bands spaced per specifications, the same being true for bottom tension wire. Fabric shall be installed to be no more than 2" above the ground.
  - Concrete used to secure posts shall be at least 2500 psi. Posts shall extend approximately three (3) inches below the bottom of the concrete to allow condensation to dissipate from within the post.
  - The contractor shall be responsible for securing the work area for any materials, which could be used as projectiles, or for vandalism.

| DATE     | REMARK                   |
|----------|--------------------------|
| 06-29-23 | ORIGINAL SUBMITTAL       |
| 07-28-23 | STOCKPILE LOCATIONS REV. |

**BID SET**

CERTIFICATE OF AUTHORIZATION # 5684  
 ROGER DALE POLSTON P. E. # 33222  
 MARVIN LUTHER WOLFE P. E. # 46930

**Polston Engineering Inc.**  
 CIVIL ENGINEERING CONSULTANTS

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**CITY OF SEBRING**  
**CEMETERY ROAD WWP**  
**PERCOLATION POND ADDITIONS**  
**CONSTRUCTION SPECIFICATIONS**

ENGINEER JOB # **01149**

DRAWING SCALE  
**1" = 200'**  
 SHEET  
**C4 OF C4**