PROJECT LOCATION:

# GULF COAST STATE COLLEGE
# PHASE 3
# CAMPUS IMPROVEMENTS

## 5230 US-98 PANAMA CITY, FLORIDA 32401

## CONSTRUCTION DOCUMENTS

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## CODE REVIEW ANALYSIS

PROJECT

DEVELOPMENT AND CONSTRUCTION OF NEW ROADS AND PARKING AREAS, THE INSTALLATION OF NEW LIGHTING AND SIGNAGE.

CLASSIFICATION OF

NEW CONSTRUCTION

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PROJECT:
GCSC PHASE 3
CAMPUS IMPROVEMENTS
ITB#8-2016/2017


CONSULTANTS:
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CONSTRUCTION DOCUMENTS

| SCALE: | DATE: 01/18/18 |
|---|---|
| DRAWN: R.DAVIS | CHECKED: J.SORCI |

| NO. | REVISION: | DATE: |
|---|---|---|
| | | |

SHEET TITLE:

COVER SHEET

| PROJECT NO. | SHEET |
|---|---|
| 4166-15 | A0.0 |

## DS-1a & DS-1b
8' X 8' DOUBLE SIDED MONUMENT DIRECTIONAL SIGN - NON-ILLUMINATED

8' x 8' East Face Double Sided Monument Directional Sign Non-Illuminated
Project: Bid No. ITB#8-2016/2017 GCSC PHASE 3 CAMPUS IMPROVEMENTS PROJECT
Sign/Drawing No. DS-1a

8' x 8' West Face Double Sided Monument Directional Sign Non-Illuminated
Project: Bid No. ITB#8-2016/2017 GCSC PHASE 3 CAMPUS IMPROVEMENTS PROJECT
Sign/Drawing No. DS-1b

## DS-2a & DS-2b
8' X 6' DOUBLE SIDED MONUMENT DIRECTIONAL SIGN - NON-ILLUMINATED

8' x 6' South Face Double Sided Monument Directional Sign Non-Illuminated
Project: Bid No. ITB#8-2016/2017 GCSC PHASE 3 CAMPUS IMPROVEMENTS PROJECT
Sign/Drawing No. DS-2a

8' x 6' North Face Double Sided Monument Directional Sign Non-Illuminated
Project: Bid No. ITB#8-2016/2017 GCSC PHASE 3 CAMPUS IMPROVEMENTS PROJECT
Sign/Drawing No. DS-2b

## DS-3a & DS-3b
8' X 8' DOUBLE SIDED MONUMENT DIRECTIONAL SIGN - NON-ILLUMINATED

8' x 8' SW Face Double Sided Monument Directional Sign Non-Illuminated
Project: Bid No. ITB#8-2016/2017 GCSC PHASE 3 CAMPUS IMPROVEMENTS PROJECT
Sign/Drawing No. DS-3a

8' x 8' NE Face Double Sided Monument Directional Sign Non-Illuminated
Project: Bid No. ITB#8-2016/2017 GCSC PHASE 3 CAMPUS IMPROVEMENTS PROJECT
Sign/Drawing No. DS-3b

## DS-4a & DS-4b
8' X 8' DOUBLE SIDED MONUMENT DIRECTIONAL SIGN - NON-ILLUMINATED

8' x 8' SW Face Double Sided Monument Directional Sign Non-Illuminated
Project: Bid No. ITB#8-2016/2017 GCSC PHASE 3 CAMPUS IMPROVEMENTS PROJECT
Sign/Drawing No. DS-4a

8' x 8' NE Face Double Sided Monument Directional Sign Non-Illuminated
Project: Bid No. ITB#8-2016/2017 GCSC PHASE 3 CAMPUS IMPROVEMENTS PROJECT
Sign/Drawing No. DS-4b

## DS-5a & DS-5b
8' X 6' DOUBLE SIDED MONUMENT DIRECTIONAL SIGN - NON-ILLUMINATED

8' x 6' North Face Double Sided Monument Directional Sign Non-Illuminated
Project: Bid No. ITB#8-2016/2017 GCSC PHASE 3 CAMPUS IMPROVEMENTS PROJECT
Sign/Drawing No. DS-5a

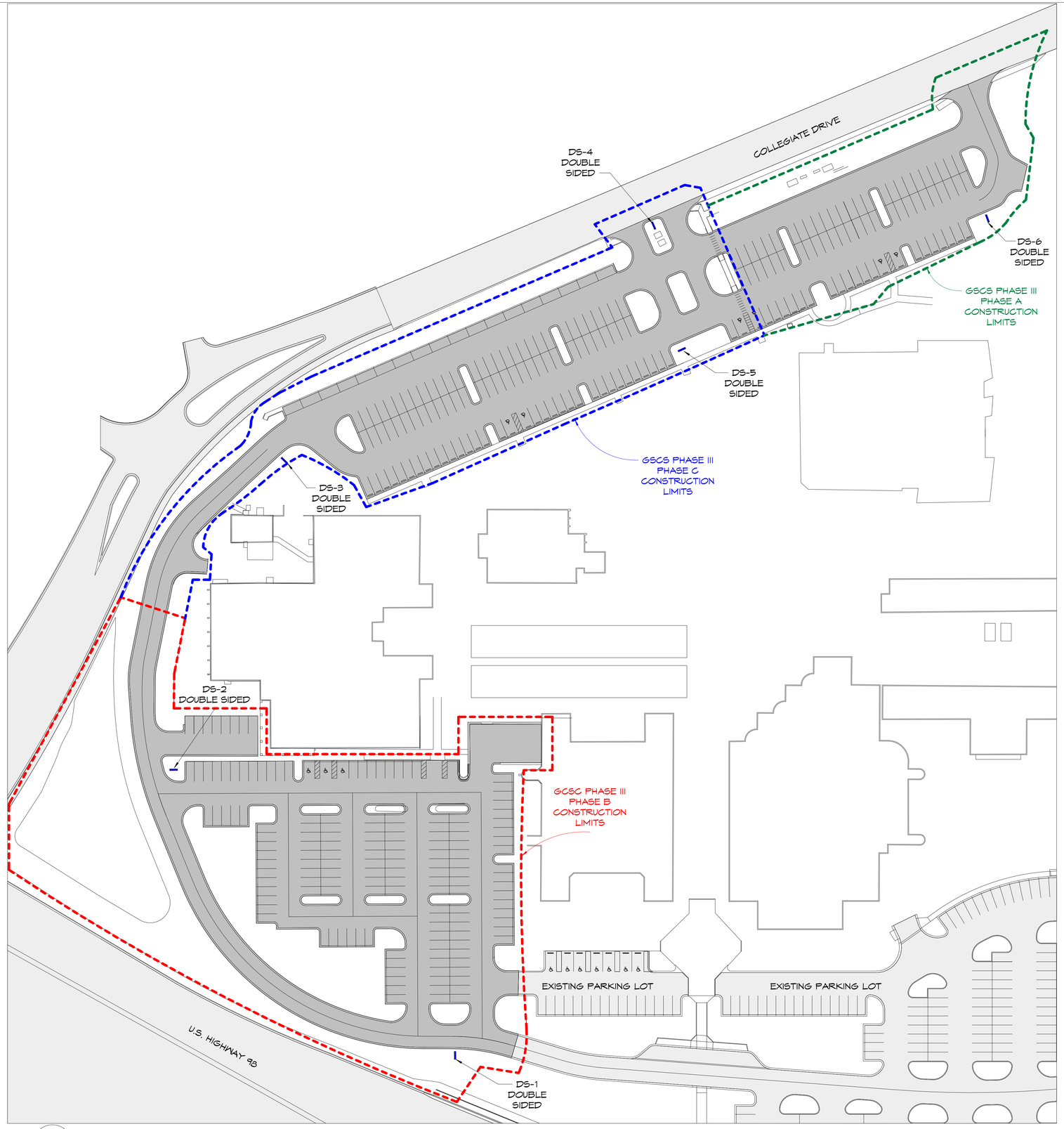
8' x 6' South Face Double Sided Monument Directional Sign Non-Illuminated
Project: Bid No. ITB#8-2016/2017 GCSC PHASE 3 CAMPUS IMPROVEMENTS PROJECT
Sign/Drawing No. DS-5b

## DS-6a & DS-6b
8' X 6' DOUBLE SIDED MONUMENT DIRECTIONAL SIGN - NON-ILLUMINATED

8' x 6' SW Face Double Sided Monument Directional Sign Non-Illuminated
Project: Bid No. ITB#8-2016/2017 GCSC PHASE 3 CAMPUS IMPROVEMENTS PROJECT
Sign/Drawing No. DS-6a

8' x 6' NE Face Double Sided Monument Directional Sign Non-Illuminated
Project: Bid No. ITB#8-2016/2017 GCSC PHASE 3 CAMPUS IMPROVEMENTS PROJECT
Sign/Drawing No. DS-6b

SIGNAGE LEGEND 1" = 50'-0"




PHASE 3 1" = 50'-0"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PROJECT:

GCSC PHASE 3
CAMPUS IMPROVEMENTS
ITB # 8 - 2016/2017

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CONSTRUCTION DOCUMENTS

| SCALE: | DATE: |
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| NO. | REVISION: | DATE: |
|---|---|---|
| | | |

SHEET TITLE:

SIGNAGE

| PROJECT NO. | SHEET |
|---|---|
| 4166-15 | A0.1 |


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CONSTRUCTION PLANS FOR:

# CAMPUS IMPROVEMENTS - PHASE III

PREPARED FOR:

# GULF COAST STATE COLLEGE

BID No. ITB#8-2016/2017

CONSTRUCTION DOCUMENTS

| REV. NO. | REV. DATE | | RELEASED TO | RELEASE DATE |
|---|---|---|---|---|
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| | | | | |
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PREPARED BY:


Dewberry | PREBLE-RISH

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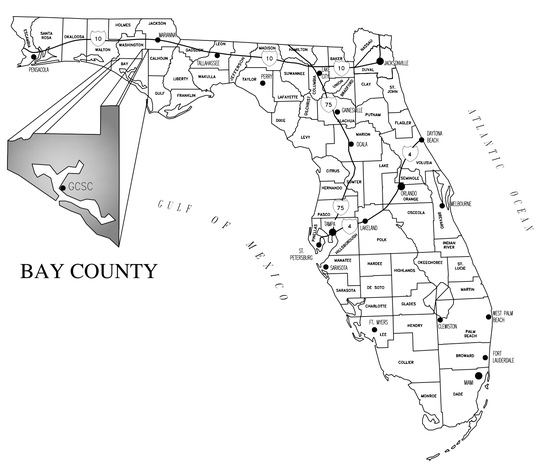
(850) 522-0644


PROJECT NUMBER - 50090785

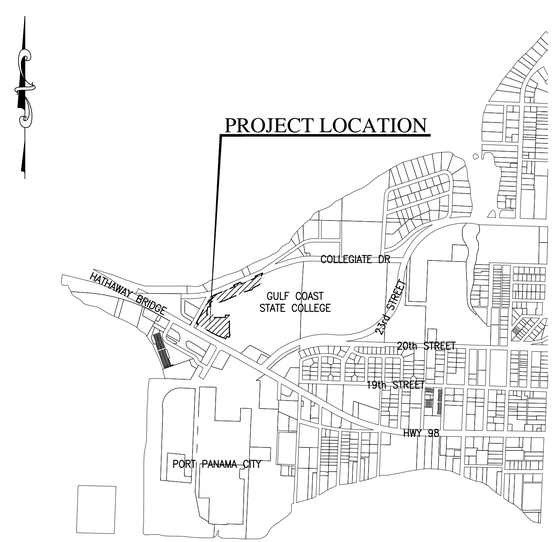
JANUARY 2018

## VICINITY MAP




BAY COUNTY

## LOCATION MAP




## DRAWING INDEX

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SIGNAGE AND STRIPING PLANS A and B
SIGNAGE DETAILS
MISCELLANEOUS DETAILS



January 26, 2018 (11:16:40 EST)
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## GENERAL NOTES:

1. THE BENCHMARK DATUM USED FOR THE PLANS IS NAVD88.

2. ANY PUBLIC LAND CORNER OR MONUMENT THAT PERPETUATES BAY COUNTY RIGHT OF WAY WITHIN THE PROJECT LIMITS IS TO BE PROTECTED BY THE CONTRACTOR. IF A MONUMENT IS IN DANGER OF BEING DESTROYED THE CONTRACTOR IS TO ENSURE THAT IT IS PROPERLY REFERENCED AND RESET PRIOR TO PROJECT COMPLETION. THE MONUMENTS SET SHALL MEET MINIMUM TECHNICAL STANDARDS AS DEFINED IN 61G17, F.A.C. AND CURRENT BAY COUNTY SURVEYING STANDARDS.

3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH FDOT 2013 DESIGN STANDARDS AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, UNLESS OTHERWISE STATED OR SHOWN IN THE PLANS.

4. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF PANAMA CITY STANDARDS AND SPECIFICATIONS, UNLESS APPROVED BY THE CITY OF PANAMA CITY.

5. THE CONTRACTOR SHALL NOT BRING ANY HAZARDOUS MATERIALS ONTO THE PROJECT. SHOULD THE CONTRACTOR REQUIRE SUCH MATERIALS FOR PERFORMING THE CONTRACTED WORK, THE CONTRACTOR SHALL REQUEST, IN WRITING, WRITTEN PERMISSION FROM THE PROJECT ADMINISTRATOR. THE CONTRACTOR SHALL PROVIDE THE PROJECT ADMINISTRATOR WITH A COPY OF THE MATERIAL SAFETY DATA SHEET (MSDS) FOR EACH HAZARDOUS MATERIAL PROPOSED FOR USE. THE CONSTRUCTION PROJECT ADMINSTRATOR SHALL COORDINATE WITH THE ENGINEER OF RECORD PRIOR TO ISSUING WRITTEN APPROVAL TO THE CONTRACTOR. SINCE STATE LAW DOES NOT TREAT PETROLEUM PRODUCTS THAT ARE PROPERLY CONTAINERIZED AND INTENDED FOR EQUIPMENT USE AS A HAZARDOUS MATERIAL, SUCH PRODUCTS DO NOT NEED A MSDS SUBMITTAL.

6. ANY KNOWN OR SUSPECTED HAZARDOUS MATERIAL FOUND ON THE PROJECT SHALL IMMEDIATELY BE REPORTED TO THE CONSTRUCTION PROJECT ADMINISTRATOR WHO SHALL DIRECT THE CONTRACTOR TO PROTECT THE AREA OF KNOWN OR SUSPECTED CONTAMINATION FROM FURTHER ACCESS. THE CONSTRUCTION PROJECT ADMINISTRATOR IS TO NOTIFY THE PROJECT MANAGER OF DISCOVERY. THE PROJECT MANAGER WILL ARRANGE AN INVESTIGATION, IDENTIFICATION AND REMEDIATION OF THE HAZARDOUS MATERIAL. THE CONTRACTOR SHALL NOT RETURN TO THE AREA OF CONTAMINATION UNTIL APPROVAL IS PROVIDED BY THE CONSTRUCTION PROJECT ADMINISTRATOR.

7. THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS THROUGH SUNSHINE ONE CALL OF FLORIDA, INC. TWO BUSINESS DAYS IN ADVANCE OF BEGINNING CONSTRUCTION ON THE JOB SITE. CALL 1-800-432-4770 AND 811 (NATIONWIDE TOLL FREE UTILITY LOCATE). THE LOCATION OF THE UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR DURING CONSTRUCTION.

8. INFORMATION SHOWN ON THE PLANS CONCERNING THE TYPE AND LOCATION OF UNDERGROUND AND OVERHEAD UTILITIES IS BASED ON DATA PROVIDED BY UTILITY OWNERS, AVAILABLE RECORDS, AND FIELD SURVEYS. THE PLANS MAY NOT SHOW ALL UTILITIES WITHIN PROJECT LIMITS, EITHER ACTIVE OR PLACED OUT-OF-SERVICE, OR THAT SAID UTILITIES ARE ACTUALLY IN THE HORIZONTAL OR VERTICAL POSITIONS SHOWN IN THE PLANS. DETERMINE THE TYPE AND LOCATION OF ALL UTILITIES TO ESTABLISH THEIR LOCATIONS AND TO AVOID DAMAGE TO UNDERGROUND UTILITIES.

9. UTILITY ADJUSTMENTS ARE TO BE PERFORMED BY THE UTILITY OWNERS UNLESS OTHERWISE NOTED.

10. SWEEPING SHALL OCCUR DAILY OR AFTER SUCH EVENTS AS CAUSE TRACKING ONTO STREET.

11. ALL PROPOSED GROUND ELEVATIONS ARE FINISHED SOD ELEVATIONS. FINISH EARTHWORK GRADING SHALL BE 0.2 FEET BELOW ELEVATIONS SHOWN TO ALLOW FOR SOD THICKNESS.

12. SODDING INCLUDES MAINTAINING SLOPES AND SOD UNTIL COMPLETION AND ACCEPTANCE OF TOTAL PROJECT OR GROWTH IS ESTABLISHED, WHICHEVER COMES LAST. UNTIL THEN, ALL EROSION, SILTATION AND MAINTENANCE OF GRADES IS THE RESPONSIBILITY OF THE CONTRACTOR.

13. WHERE EXCAVATIONS ARE IN CLOSE PROXIMITY OF TREES NOT SHOWN AS BEING REMOVED, THE CONTRACTOR SHALL USE EXTREME CARE IN NOT DAMAGING THE ROOT SYSTEM. NO EQUIPMENT, SUPPLIES, OR VEHICLES SHALL BE STORED OR PARKED WITHIN THE DRIP LINE OF TREES TO REMAIN AND BE PRESERVED. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM ALL EMPLOYEES AND SUBCONTRACTORS OF THIS REQUIREMENT AND TO ENFORCE SAME.

14. PROPOSED CONSTRUCTION SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (ADA), THE ADA COMPLIANCE HANDBOOK, LATEST EDITION, AND THE FLORIDA ACCESSIBILITY CODE. SIDEWALK CONSTRUCTION AND EXPANSION JOINT SPACING SHALL BE IN ACCORDANCE WITH FDOT DESIGN STANDARD INDEX 310.

15. ALL INLETS SHALL BE PROTECTED AS PER FDEP BEST MANAGEMENT PRACTICES, AND THE FDEP/FDOT EROSION AND SEDIMENT CONTROL HANDBOOK.

16. THE CONTRACTOR SHALL PROTECT ALL GRASSED AREAS FROM DISCARDED CONCRETE AND EXCESS MATERIALS. ALL DISCARDED CONCRETE AND EXCESS MATERIALS SHALL BE REMOVED FROM THE RIGHT-OF-WAY (OR JOB SITE) ON A DAILY BASIS.

17. THE CONTRACTOR SHALL DISPOSE OF ALL DEBRIS UPON COMPLETION OF THE PROJECT.

18. THE EROSION CONTROL PLAN SHALL BE IN ACCORDANCE WITH THE FDOT/FDEP EROSION & SEDIMENT CONTROL HANDBOOK.

19. ALL FILL MATERIAL SHALL BE SELECT FILL AS DEFINED BY FDOT DESIGN STANDARD INDEX 505.

20. DEWATERING: SHOULD LOWERING OF GROUNDWATER BE NECESSARY FOR THE INSTALLATION OF CONCRETE STRUCTURES, OR TO PREVENT LATERAL MOVEMENT OF CONCRETE ALREADY PLACED, SUCH LOWERING SHALL BE ACCOMPLISHED BY MEANS OF A WELL POINT SYSTEM OR OTHER APPROVED MEANS, AT CONTRACTOR'S EXPENSE. COMPREHENSIVE PLANS FOR DEWATERING OPERATIONS, IF USED, SHALL BE SUBMITTED BY THE CONTRACTOR PRIOR TO INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITTING ASSOCIATED WITH DEWATERING.

21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING NPDES PERMIT.

22. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY METERS, VALVES, SERVICE LATERALS, FIRE HYDRANTS, MAINS, WATER, WASTEWATER, OR GAS FACILITIES DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COST.

23. ALL PROPOSED INLETS SHALL HAVE 6" SUMP BOTTOMS ,OPEN BOTTOMS SHALL NOT BE ALLOWED IN AREAS WHERE HIGH GROUNDWATER EXISTS.

24. ALL DEMOLISHED MATERIALS SHALL BE REMOVED FROM SITE AND DISPOSED OF IN A LEGAL MANNER.

25. CONTRACTOR SHALL PROVIDE (5) SIGNED AND SEALED AS-BUILT SURVEYS PREPARED BY A REGISTERED FLORIDA SURVEYOR. A DIGITAL (AUTOCAD) FILE SHALL ALSO BE PROVIDED.

## UTILITY GENERAL NOTES:

1. ALL MAINS SHALL BE INSTALLED ACCORDING TO ENGINEERING PLANS AND SPECIFICATIONS.
2. ALL VALVES AND MATERIALS SHALL COMPLY WITH AWWA (AMERICAN WATER WORKS ASSOCIATION) STANDARDS, LATEST EDITION.
3. ALL MAIN LINE VALVES SHALL BE RESILIENT SEATED GATE VALVES.
4. THE CONTRACTOR WILL BE REQUIRED TO REMOVE & REPLACE ITEMS ENCOUNTERED IN THE FIELD, ie SIGNS, FENCING, POST, etc..
5. MAINS SHALL HAVE A MINIMUM OF 36" COVER UNLESS APPROVED BY ENGINEER.
6. CONTRACTOR IS TO FURNISH "AS BUILT PLANS" INDICATING LOCATIONS OF ALL FITTINGS, VALVES, AND DEAD END RUNS WITH THREE (3) PHYSICAL FEATURES (LOT CORNERS, TREES, ETC.).
7. ALL WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA C651. PRESSURE TESTING SHALL BE IN ACCORDANCE WITH AWWA C600.
8. CONTRACTOR SHALL NOTIFY AND COORDINATE WITH ENGINEER 48 HOURS PRIOR TO PRESSURE TESTING, DISINFECTION, AND BACTERIOLOGICAL TESTING. PRESSURE TESTING SHALL BE VALVE TO VALVE. CONTRACTOR SHALL USE 2" AIR RELEASE VALVE PORTS OR SHALL TAP THE WATER MAIN WITH A 1" TAPPING SADDLE.
9. BASE AND BACKFILL MATERIALS SHALL BE EITHER OF THE SAME TYPE AND COMPOSITION AS THE MATERIALS REMOVED, OR OF EQUAL OR GREATER STRUCTURAL ADEQUACY. MATERIALS CONTAMINATED WITH DELETERIOUS SUBSTANCES DURING EXCAVATION SHALL NOT BE USED FOR FILL.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FITTINGS, TAPS, EQUIPMENT AS REQUIRED FOR FLUSHING SYSTEM, PRESSURE TESTING, DISINFECTION, AND BACTERIOLOGICAL TESTING.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF EXISTING UTILITIES, AND TO DETERMINE IF OTHER UTILITIES WILL BE ENCOUNTERED DURING THE COURSE OF THE WORK, AND TAKE WHATEVER STEP NECESSARY TO PROVIDE FOR THEIR PROTECTION.
12. UTILITIES SHOW ON THE PLAN MAY NOT BE ACCURATE AND ALL UTILITIES MAY NOT BE SHOWN.
13. THE CONTRACTOR SHALL NOTIFY ALL UTILITY OWNERS 48 HOURS PRIOR TO COMMENCING CONSTRUCTION AND SHALL VERIFY LOCATION OF ALL UTILITIES PRIOR TO EXCAVATION.
14. ALL VALVE BOXES SHALL BE INSTALLED PER DETAIL SHOWN. PRE-CAST VALVE PADS SHALL NOT BE USED. ALL VALVE BOX RISERS SHALL BE DUCTILE IRON, NOT PVC.
15. ALL PAVEMENT SHALL BE CUT AND PATCHED IN ACCORDANCE WITH ENGINEERING PLANS AND SPECIFICATIONS.
16. ALL CONCRETE ENCASED DUCTILE IRON SHALL BE WRAPPED WITH A PLASTIC MATERIAL AND TAPED TOGETHER BEFORE CONCRETE IS PLACED AROUND THE PIPE.
17. WHERE THERE IS LESS THAN 12" CLEARANCE BETWEEN PVC/DI PIPE AND OTHER PIPE OR SPECIFIED AREAS, THE PIPE SHALL BE ENCASED WITH 6" THICKNESS AROUND THE PIPE AND 6' CLEARANCE EACH WAY IN THE AXIAL DIRECTION.
18. THE CONTRACTOR SHALL REMOVE AND REPLACE, TO THEIR ORIGINAL NATURE, ALL DISTURBED MATERIALS OR OBJECTS WITHIN THE PATH OF THE NEW UTILITIES AS NECESSARY. ALL REPLACED MATERIALS SHALL BE EQUAL OR BETTER AND SHALL BE APPROVED BY THE ENGINEER. THIS INCLUDES ALL LANDSCAPING WITHIN THE RIGHT OF WAY IN THE PATH OF THE NEW UTILITIES.
19. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING. THE SURVEY MAY NOT SHOW ALL OBJECTS WITHIN THE PATH OF THE NEW UTILITIES. IF OBJECTS ARE NOT SHOWN ON THE SURVEY, THE CONTRACTOR SHALL NOTIFY THE ENGINEER WITHIN 7 DAYS PRIOR TO THE BID DATE. CONTRACTOR WILL BE RESPONSIBLE FOR REPLACEMENT OF ALL OBJECTS NOT SHOWN ON THE SURVEY.
20. ALL CONSTRUCTION AREAS NEAR WETLANDS ARE TO BE MONITORED CLOSELY FOR EROSION. SILT FENCE AND HAY BALES SHALL BE USED IN THESE AREAS. CONTRACTOR SHALL FOLLOW ALL THE FDEP/COE DREDGE AND FILL PERMIT REQUIREMENTS IF APPLICABLE. SEE SPECIFICATIONS.
21. ALL SPOIL MATERIAL SHALL BE PLACED ON THE UPLAND SIDE OF ANY SLOPED CONSTRUCTION AREA.
22. THE CONTRACTOR SHALL TAKE WHATEVER STEPS NECESSARY TO PREVENT EROSION INTO NEARBY WETLANDS.
23. THE CONTRACTOR SHALL USE RESTRAINED JOINT PIPE FOR ALL BENDS, TEES, VALVES, AND TRANSITION FITTINGS.
24. INSULATED 12 GA. LOCATING WIRE SHALL BE INSTALLED ON TOP OF ALL NON-METALIC PIPE. WHICH INCLUDES SERVICE CONNECTIONS. ALL LOCATING WIRE SHALL BE CONNECTED AND SHALL TERMINATE IN VALVE BOXES AND METER BOXES AS SHOWN IN THE DETAILS.
25. ALL PIPE SHALL BE INSTALLED IN DRY CONDITIONS. WELL POINTING MAY BE REQUIRED AT THE DIRECTION OF THE ENGINEER. WELL POINTS OR SOCK PIPE MAY BE USED.
26. THE FLUSHING VELOCITY SHALL BE A MINIMUM OF 3 FEET PER SECOND FOR 3 TIMES THE PIPE VOLUME. THE OWNER WILL PAY FOR THE FIRST FLUSH AND PRESSURE TEST WATER. THE CONTRACTOR WILL PAY FOR ANY WATER FOR ADDITIONAL REPAIRS, FLUSHING, AND TESTING. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY ABOVE GROUND OUTLETS AND VALVES FOR FLUSHING THE PIPES ON THIS PROJECT.
27. CONTRACTOR SHALL FOLLOW ALL OSHA REQUIREMENTS FOR CONSTRUCTION.
28. THE CONTRACTOR SHALL FOLLOW ALL CONDITIONS OF THE PERMIT REQUIREMENTS. SEE SPECIFICATIONS FOR COPY OF PERMITS.
29. ALL DISTURBED AREAS SHALL BE SODDED.
30. A ONE FOOT STRIP OF SOD SHALL BE INSTALLED ON THE EDGE OF ALL ASPHALT OVERLAY AREAS AND AROUND ALL ABOVE GROUND CONCRETE STRUCTURES INCLUDING BUT NOT LIMITED TO VALVE PADS, BLOW OFF VAULTS, AND AIR RELEASE VAULTS.
31. CONTRACTOR SHALL PROVIDE ALL FITTINGS, SLEEVES AND TRANSITION ADAPTERS AS NECESSARY TO COMPLETE THIS PROJECT.
32. CONTRACTOR SHALL COMPLETE RESTORATION WITHIN 2 WEEKS OF SUCCESSFUL PIPE PRESSURE TESTING AT ANY GIVEN LOCATION. TEST SHALL BE PERFORMED VALVE TO VALVE WITHIN ONE WEEK OF COMPLETING THAT SECTION. PRESSURE TESTING SHALL TAKE PLACE EVERY 2 WEEKS DURING CONSTRUCTION FOR ANY PIPE INSTALLED IN THAT PERIOD.

## UTILITY CONTACTS:

| OWNER | CONTACT | PHONE |
|---|---|---|
| BAY COUNTY TRAFFIC | BOB EDMUNDS | 850-248-8760 |
| CITY OF PANAMA CITY | CHRIS LIGHTFOOT | 850-872-3191 |
| KNOLOGY HOLDINGS | STEVE THOMAS | 850-215-2138 |
| COMCAST CABLE | JEFFERY SMITH | 850-770-8056 |
| SOUTHERN LIGHT | ANDRO BRAMBLETT | 251-662-1170 |
| GULF POWER | KENNY DOUGLAS | 850-505-5567 |
| AT&T | NANCY SPENCE | 770-918-5424 |
| AT&T DISTRIBUTION | DANNEY WATSON | 334-850-7761 |
| TECO GAS | ROLAND MOORE | 850-914-6129 |

## EROSION AND SEDIMENT CONTROL NOTES:

### CONSTRUCTION:

1. CONTRACTOR SHALL STAGE AND TIME CONSTRUCTION TO MINIMIZE THE SIZE OF EXPOSED SOIL AREAS AND THE TIME BETWEEN EXPOSING THE SOIL AREA AND FINISHING THE SOIL AREA.

2. AS SOON AS GRADING IS COMPLETE IN AN AREA, THE CONTRACTOR WILL STABILIZE THE SOIL. FOR LONG, NARROW AREAS, THE CONTRACTOR SHALL STABILIZE CONTINUOUSLY DURING GRADING OPERATIONS. ROUGH GRADED AREAS SHOULD BE STABILIZED WITH TEMPORARY EROSION CONTROL IF FINAL GRADING AND STABILIZATION WILL NOT BE PERFORMED WITHIN FIVE (5) DAYS. FAILURE TO STABILIZE EXPOSED SOIL AREAS IN A TIMELY MANNER AFTER GRADING MAY BE CONSIDERED A VIOLATION OF CHAPTERS 17-3, 17-12, AND/OR 17/25, FLORIDA ADMINISTRATIVE CODE, BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) AND SUBJECT TO CORRECTIVE ACTION, PURSUANT TO SECTION 403.121- 403.161 FLORIDA STATUTES.

3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR PERFORMING A TASK TO PROVIDE EROSION CONTROL UNLESS ANOTHER PARTY HAS BEEN PREVIOUSLY SPECIFIED AS RESPONSIBLE FOR THE EROSION CONTROL ASSOCIATED WITH THAT TASK. IN THE EVENT ANOTHER PARTY IS RESPONSIBLE FOR EROSION CONTROL, THE CONTRACTOR SHALL STILL BE RESPONSIBLE FOR COORDINATION WITH THE PARTY RESPONSIBLE. IN THE EVENT THAT DAMAGE TO THE CONSTRUCTED ITEM RESULTS ARE DUE TO LACK OF EROSION CONTROL, THE CONTRACTOR SHALL REPAIR OR REPLACE THE ITEM AT NO CHARGE TO THE OWNER.

4. TEMPORARY EROSION CONTROL SHALL CONSIST OF TEMPORARY GRASS, TEMPORARY MULCH, TEMPORARY SOD, ARTIFICIAL COVERINGS, BALED HAY OR STRAW, SILT FENCES, AND TURBIDITY BARRIERS. TEMPORARY EROSION CONTROL SHALL BE IN ACCORDANCE WITH SECTION 104 OF THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD SPECIFICATIONS.

5. PERMANENT EROSION CONTROL SHALL CONSIST OF SEED, SEED AND MULCH, HYDRO-SEEDING, SOD, AND/OR ARTIFICIAL COVERINGS. PERMANENT EROSION CONTROL SHALL BE IN ACCORDANCE WITH SECTIONS 570 AND 575 OF THE FDOT STANDARD SPECIFICATIONS. SEED OR GRASS TYPE SHALL MATCH EXISTING OR BE AS SPECIFIED BY OWNER UNLESS NOTED OTHERWISE.

6. GRASS BY SEEDING SHALL BE IN ACCORDANCE WITH SECTIONS 104, 570, 981, 982, AND 983 OF FDOT STANDARD SPECIFICATIONS. THIS SHALL BE USED ONLY IN AREAS SUBJECT TO LIGHT EROSION SUCH AS FLAT AREAS.

7. GRASS BY HYDRO-SEEDING SHALL BE IN ACCORDANCE WITH SECTIONS 104, 570, 981, 982, AND 983 OF FDOT STANDARD SPECIFICATIONS. HYDRO-SEEDING MAY BE USED FOR FLAT AREAS AND SIDE SLOPES WHICH DO NOT EXCEED 2:1. DRAINAGE DITCHES OR LARGE SWALES MUST HAVE ADDITIONAL PROTECTION BESIDES HYDRO-SEEDING.

8. GRASS AND MULCH SHALL BE IN ACCORDANCE WITH SECTIONS 104, 570, 981, 982, AND 983 OF FDOT STANDARD SPECIFICATIONS. GRASS AND MULCH MAY BE USED IN ALL AREAS EXCEPT LARGE SWALES OR DITCHES. MULCH SHALL BE ANCHORED IN ACCORDANCE WITH SECTION 570. SOLID SOD SHALL BE IN ACCORDANCE WITH SECTIONS 104, 575, 981, 982, AND 983 OF FDOT STANDARD SPECIFICATIONS. SOD MAY BE USED IN ALL AREAS FOR SIDE SLOPES LESS THAN 2:1. SOD SHOULD NOT BE USED ON SLOPES GREATER THAN 1:2 (V:H). EROSION CONTROL BLANKETS WITH GRASSING OR OTHER SLOPE STABILIZATION TECHNIQUES SHOULD BE USED ON SLOPES GREATER THAN 1:2. SOD SHALL BE STAGGERED SO AS TO AVOID A CONTINUOUS SEAM. IN AREAS WITH SLOPES 3:1 OR STEEPER, EACH PIECE OF SOD SHALL BE PEGGED WITH SOD PEGS. IN DIFFICULT SOIL CONDITIONS WITH STEEP SLOPES, IT MAY NECESSARY TO COVER SOD WITH ARTIFICIAL COVERINGS SUCH AS JUTE MESH UNTIL SOD BECOMES ESTABLISHED.

9. TEMPORARY EROSION CONTROL BY ARTIFICIAL COVERINGS SHALL CONSIST OF STRAW BLANKETS, COCONUT FIBER BLANKETS, POLYESTER BLANKETS, JUTE MESH, AND DRAINAGE FABRICS. MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. SEEDING SHALL BE INCLUDED IF MATERIAL REQUIRES VEGETATION TO FUNCTION PROPERLY.

10. THE CONTRACTOR IS TO PROVIDE EROSION CONTROL/ SEDIMENTATION BARRIER (HAY BALES, SILT FENCE, TURBIDITY BARRIER, OR AS SPECIFIED IN THE CONSTRUCTION DRAWINGS) TO PREVENT SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS, WATERWAYS, AND WETLAND OR JURISDICTIONAL AREAS. IF, IN THE OPINION OF THE ENGINEER, AND/OR REGULATORY AUTHORITIES, EXCESSIVE QUANTITIES OF MATERIAL ARE TRANSPORTED OFFSITE BY EROSION OR STORM WATER RUNOFF, THE CONTRACTOR SHALL IMPROVE CONDITIONS TO THE SATISFACTION OF THE ENGINEER AND/OR AUTHORITIES IN NO CASE SHALL CONSTRUCTION COMMENCE PRIOR TO INSTALLATION OF EROSION CONTROL/SEDIMENTATION BARRIER.

11. CONTRACTOR SHALL PLACE STRAW, MULCH, OR OTHER SUITABLE MATERIAL ON GROUND IN AREAS WHERE CONSTRUCTION-RELATED TRAFFIC IS TO ENTER AND EXIT SITE.

12. IF WIND EROSION BECOMES SIGNIFICANT DURING CONSTRUCTION, THE CONTRACTOR SHALL STABILIZE THE AREA USING SPRINKLING IRRIGATION OR OTHER ACCEPTABLE METHODS.

### MAINTENANCE:

13. THE CONTRACTOR SHALL PROVIDE ROUTINE MAINTENANCE OF PERMANENT AND TEMPORARY EROSION CONTROL FEATURES. UNTIL THE PROJECT IS COMPLETED AND ACCEPTED. THEN MAINTENANCE SHALL BE IN ACCORDANCE WITH SECTION 104 OF THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD SPECIFICATIONS OR BAY COUNTY SPECIFICATIONS.

14. SILT FENCES AND TURBIDITY BARRIERS SHALL BE CHECKED DAILY FOR EFFECTIVENESS, BREACHES, AND ROUTINE MAINTENANCE.

## PAVING, GRADING, AND EARTH WORK NOTES:

### CONSTRUCTION:

1. ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE SEEDED, MULCHED, SODDED, STABILIZED, OR PLANTED WITH OTHER APPROVED LANDSCAPE MATERIAL, WITHIN FIVE (5) DAYS AFTER CONSTRUCTION.

2. ALL WASTE MATERIAL SHALL BE DISPOSED OF OFFSITE IN ACCORDANCE WITH APPLICABLE REGULATIONS

3. PROPOSED SPOT ELEVATIONS REPRESENT PAVEMENT OR GROUND SURFACE GRADE UNLESS OTHERWISE NOTED ON DRAWINGS.

4. CONTRACTOR TO PROVIDE 1/2" TO 1" BITUMINOUS EXPANSION JOINT MATERIAL WITH SEALER AT ABUTMENT OF CONCRETE AND OTHER MATERIALS (BUILDINGS, OTHER POURED CONCRETE, ETC.) EXCEPT ASPHALT.

5. CONTRACTOR SHALL TRIM, TACK AND MATCH EXISTING PAVEMENT AT LOCATIONS WHERE NEW PAVEMENT ABUTS.

6. TESTING SHALL BE IN GENERAL CONFORMANCE WITH THE FDOT SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION. SELECTION AND CONTRACTING WITH THE TESTING FIRMS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE AND SCHEDULE ALL TESTS, AND PROVIDE TO THE ENGINEER OF RECORD.

7. ALL POTHOLES WITHIN THE LIMITS OF PROJECT SHALL BE FILLED WITH ASPHALT AND COMPACTED PRIOR TO RESURFACING.

8. TOP SOIL SHALL BE PLACED IN AREAS WHERE SOD IS PROPOSED, PRIOR TO INSTALLATION OF SOD.

## SIGNING AND MARKING NOTES:

1. FOR SIGN DETAILS, USE THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES PUBLISHED BY THE US DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION, 2009.

2. ALL SIGNAGE AND WHEEL STOPS SHALL BE REMOVED AND STOCKPILED ON SITE. CONTRACTOR SHALL COORDINATE STOCKPILE LOCATION WITH PROJECT ADMINISTRATOR.

3. THE SIGN LOCATIONS ARE APPROXIMATE AND MAY REQUIRE FIELD ADJUSTMENT AS DIRECTED BY THE PROJECT ADMINISTRATOR.

4. SIGNING AND PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH CURRENT MUTCD, AMERICANS WITH DISABILITIES ACT, FDOT DESIGN STANDARDS (CURRENT EDITION), AND THE PLANS.

5. THE PAVEMENT MARKINGS AT ALL EXISTING/PROPOSED INTERFACE LOCATIONS SHALL MATCH IN TERMS OF ALIGNMENT AND COLOR.

6. ALL FINAL PROPOSED STRIPING AND MESSAGES SHALL BE THERMOPLASTIC. TEMPORARY STRIPING SHALL BE PAINT.


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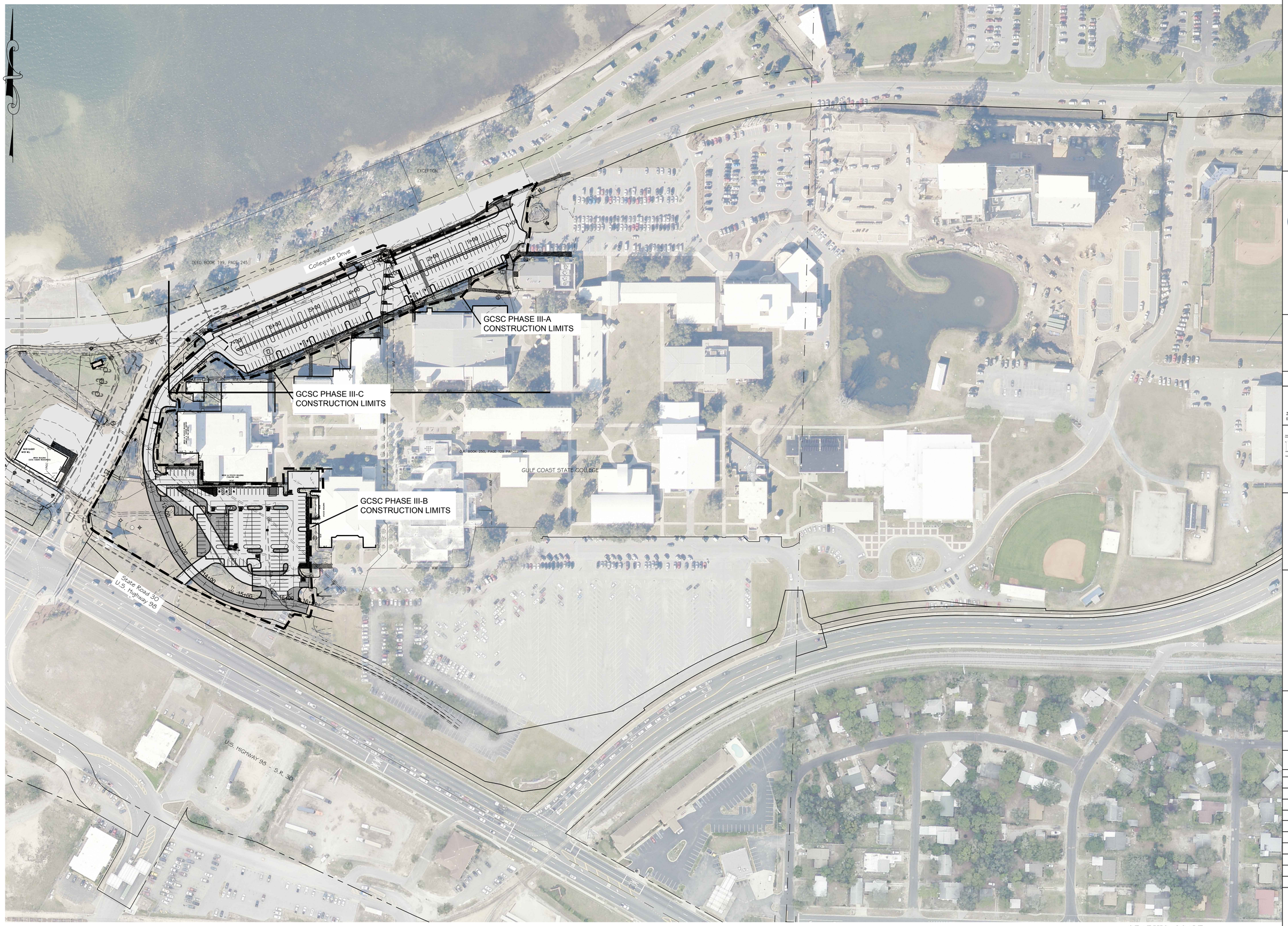


GRAPHIC SCALE

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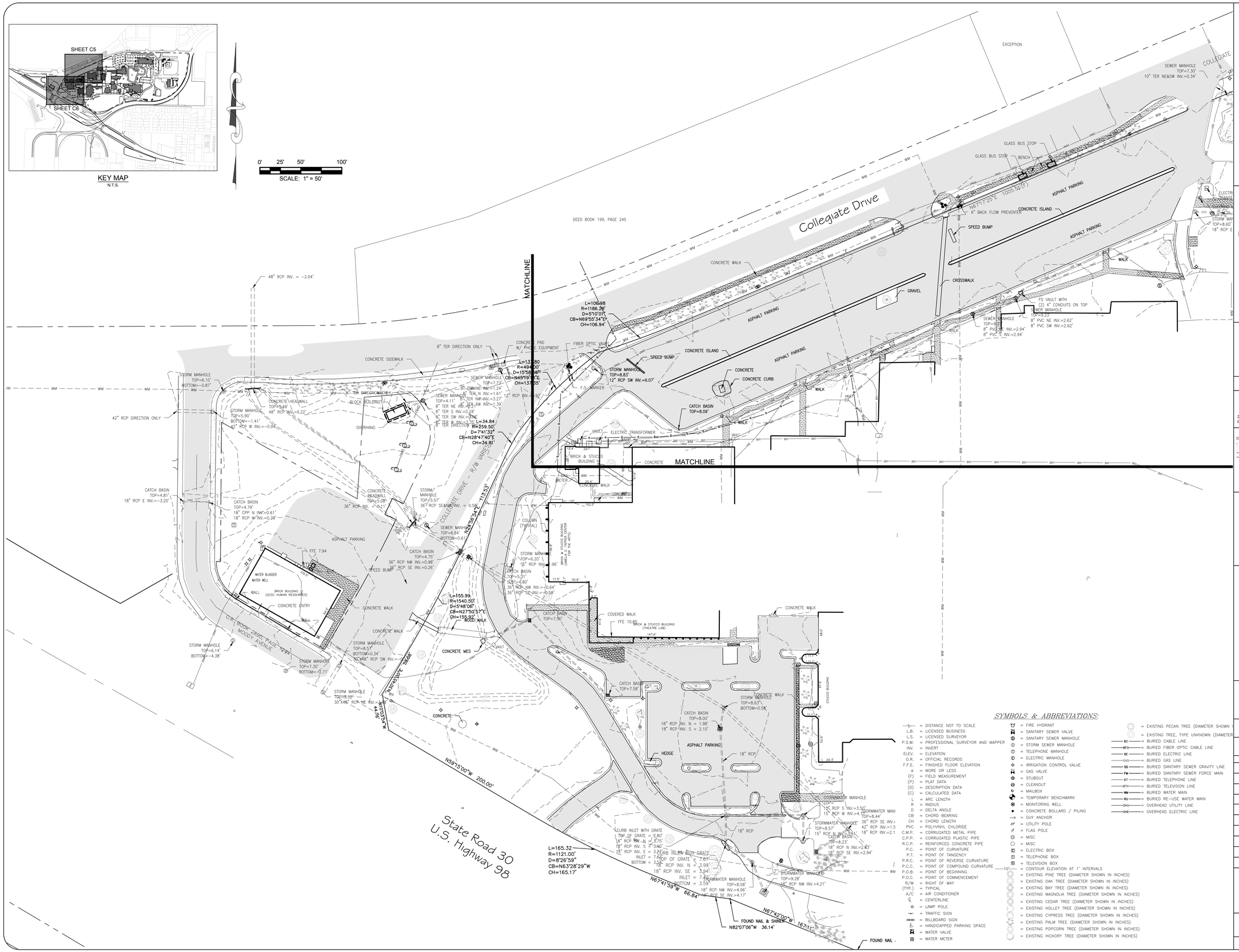


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- L.S. = LICENSED SURVEYOR
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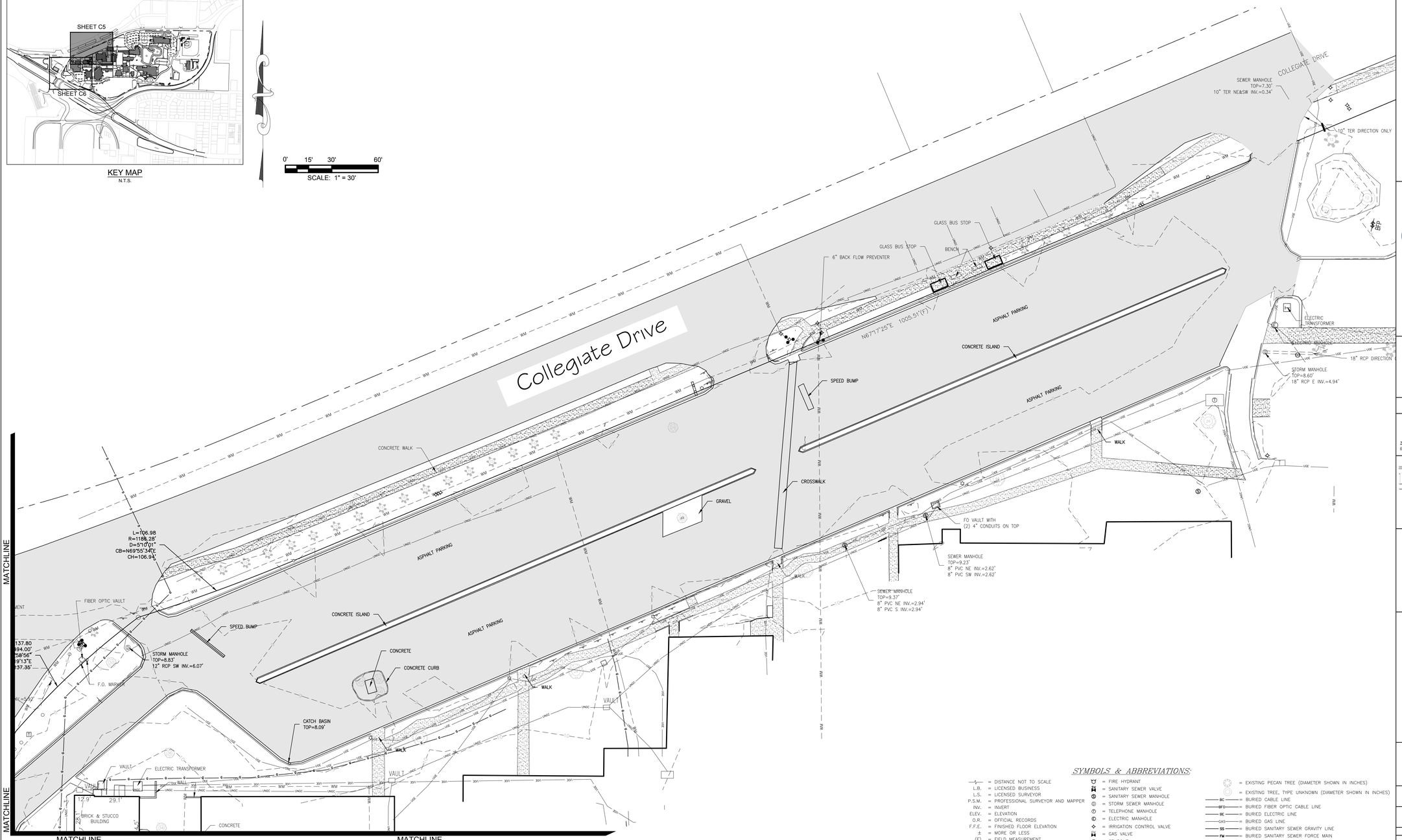
KEY MAP
N.T.S.

0' 15' 30' 60'
SCALE: 1" = 30'

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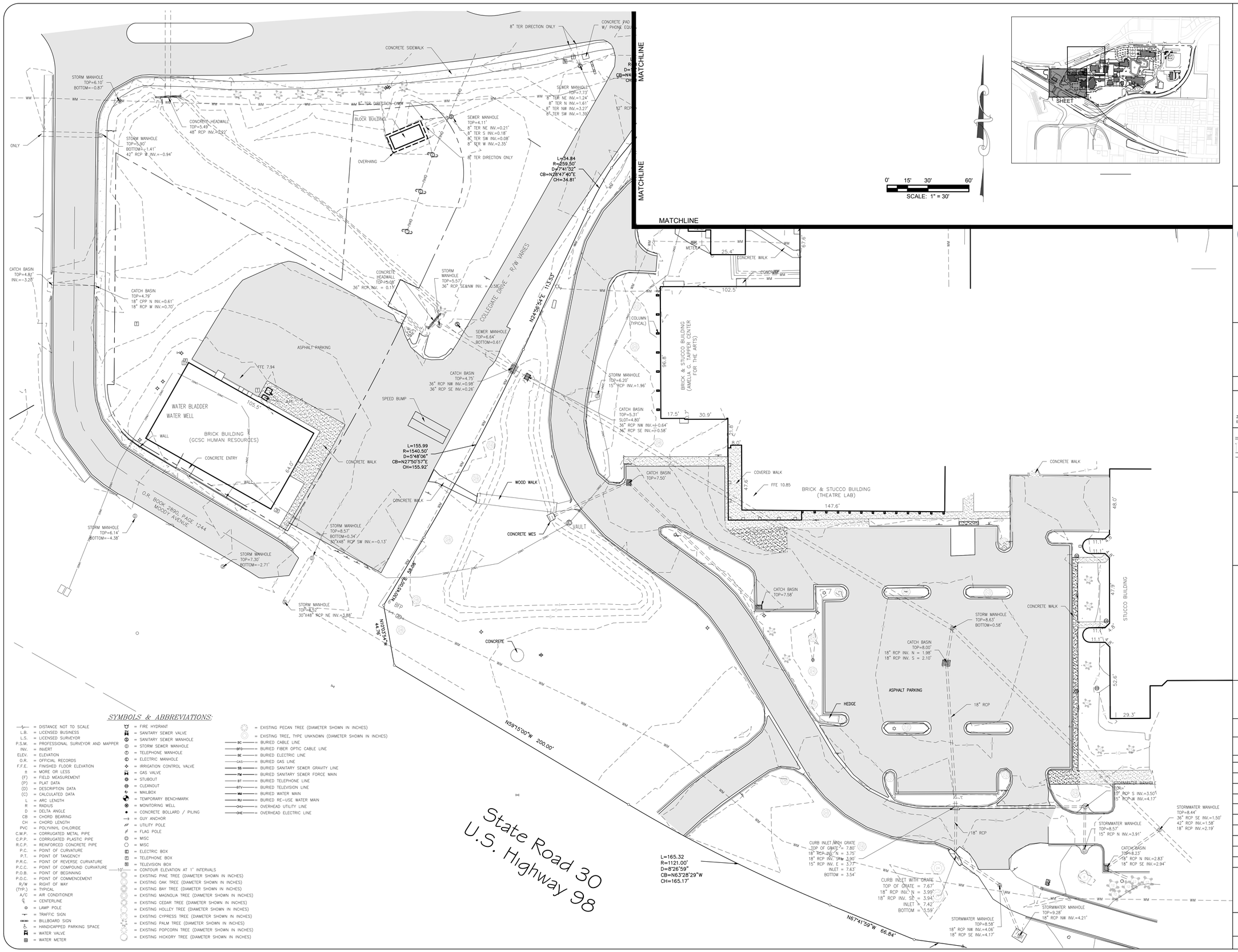


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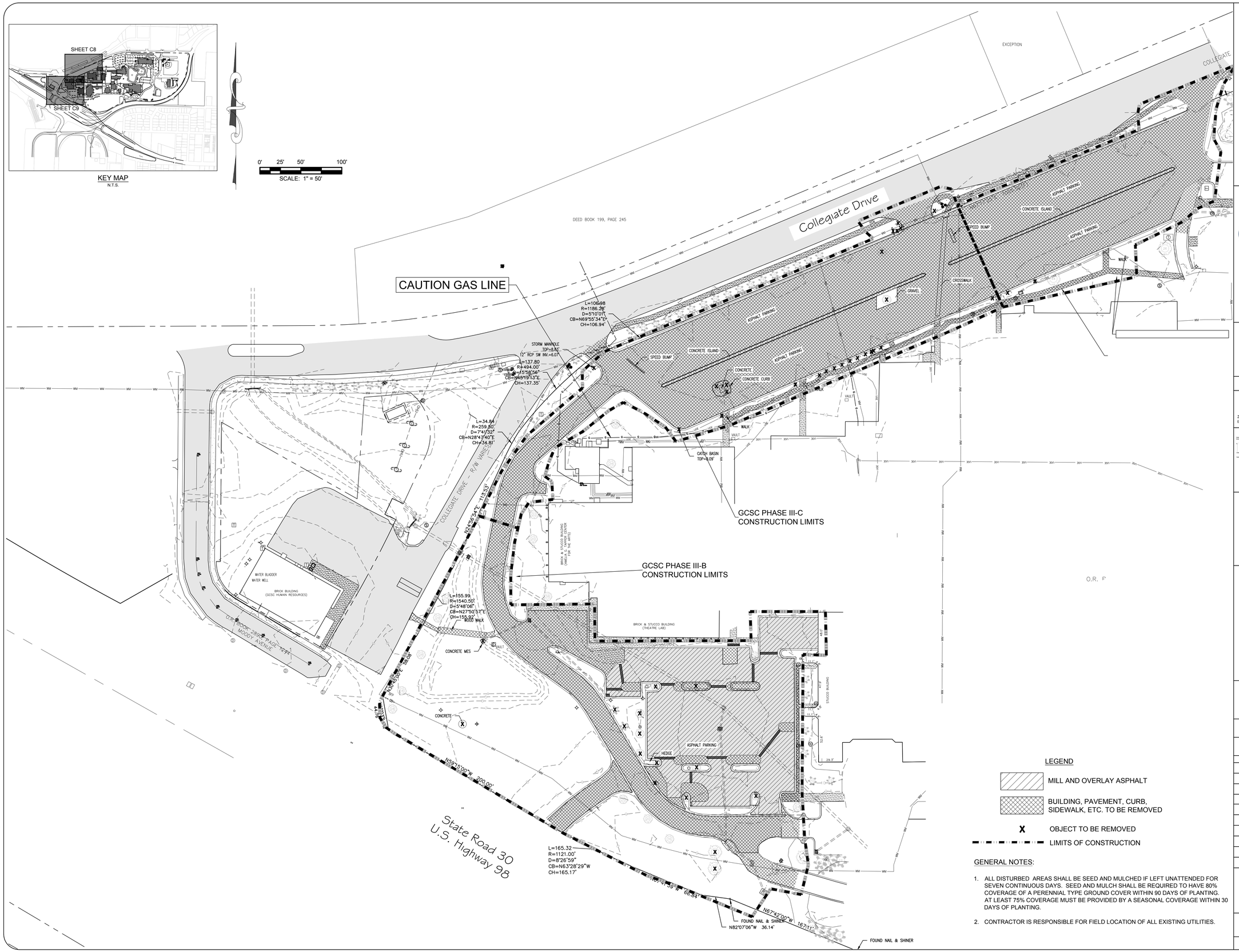


## LEGEND

- MILL AND OVERLAY ASPHALT
- BUILDING, PAVEMENT, CURB, SIDEWALK, ETC. TO BE REMOVED
- X OBJECT TO BE REMOVED
- LIMITS OF CONSTRUCTION

## GENERAL NOTES:

1. ALL DISTURBED AREAS SHALL BE SEED AND MULCHED IF LEFT UNATTENDED FOR SEVEN CONTINUOUS DAYS. SEED AND MULCH SHALL BE REQUIRED TO HAVE 80% COVERAGE OF A PERENNIAL TYPE GROUND COVER WITHIN 90 DAYS OF PLANTING. AT LEAST 75% COVERAGE MUST BE PROVIDED BY A SEASONAL COVERAGE WITHIN 30 DAYS OF PLANTING.
2. CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATION OF ALL EXISTING UTILITIES.

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LICENSE #AA0002730

GULF COAST STATE COLLEGE
SINCE 1957

Dewberry PREBLE-RISH
203 ABERDEEN PKWY, PANAMA CITY, FL 32405
(850) 522-0644

LAWNSCAPES, INC.

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January 26, 2018 (11:34:16 EST)
K:\50090785 GCSC PARKING IMPR PH III_CIVIL\3DFOLDER_PRODUCTION\50090785_DEMOPLAN.DWG MMOORE

KEY MAP
N.T.S.

0' 15' 30' 60'
SCALE: 1" = 30'

LEGEND

BUILDING, PAVEMENT, CURB, SIDEWALK, ETC. TO BE REMOVED

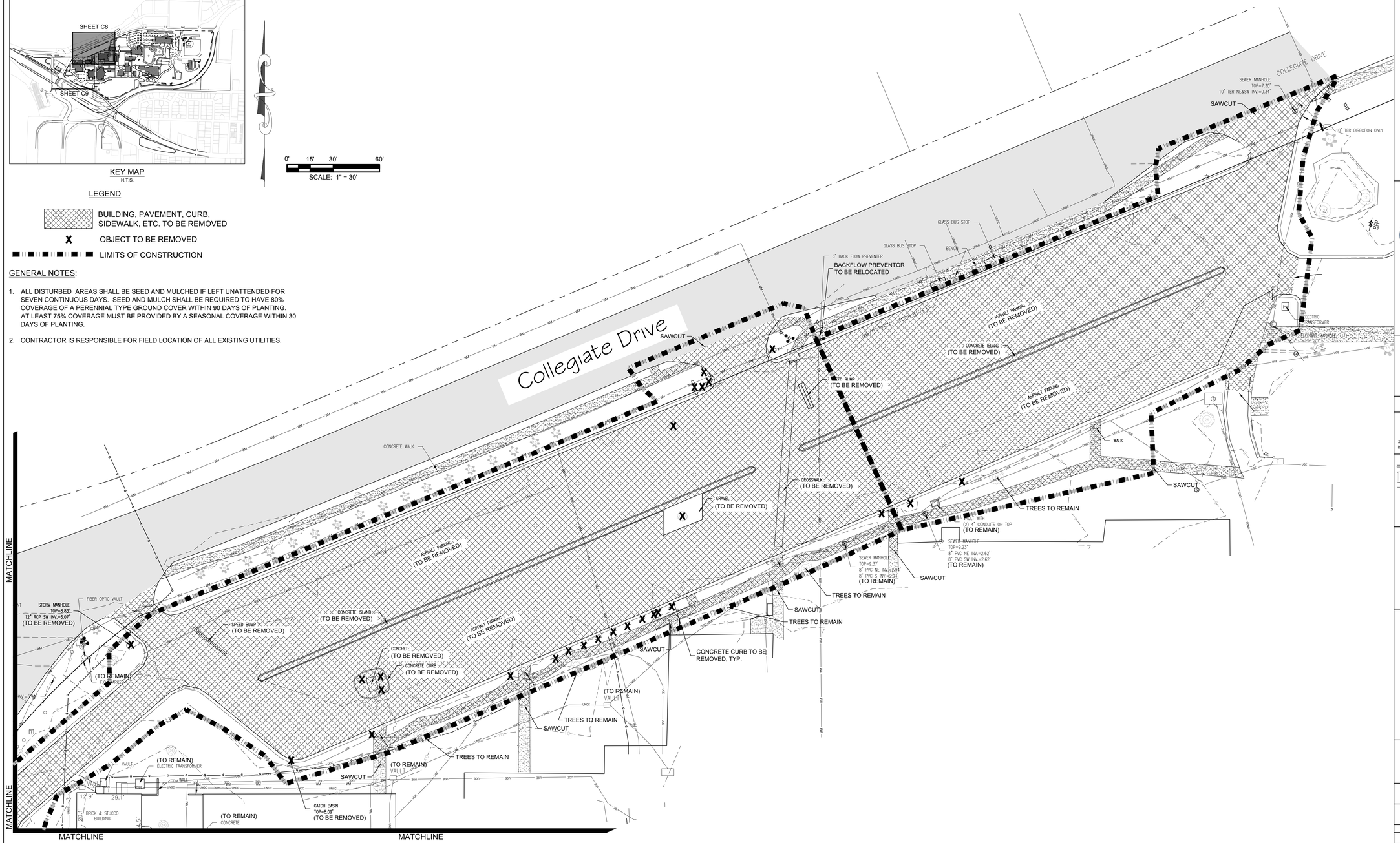
X OBJECT TO BE REMOVED

LIMITS OF CONSTRUCTION

GENERAL NOTES:

1. ALL DISTURBED AREAS SHALL BE SEED AND MULCHED IF LEFT UNATTENDED FOR SEVEN CONTINUOUS DAYS. SEED AND MULCH SHALL BE REQUIRED TO HAVE 80% COVERAGE OF A PERENNIAL TYPE GROUND COVER WITHIN 90 DAYS OF PLANTING. AT LEAST 75% COVERAGE MUST BE PROVIDED BY A SEASONAL COVERAGE WITHIN 30 DAYS OF PLANTING.

2. CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATION OF ALL EXISTING UTILITIES.

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LEGEND

- EXISTING ASPHALT TO BE MILLED AND OVERLAY
- BUILDING, PAVEMENT, CURB, SIDEWALK, ETC. TO BE REMOVED
- X OBJECT TO BE REMOVED
- LIMITS OF CONSTRUCTION

GENERAL NOTES:

1. ALL DISTURBED AREAS SHALL BE SEED AND MULCHED IF LEFT UNATTENDED FOR SEVEN CONTINUOUS DAYS. SEED AND MULCH SHALL BE REQUIRED TO HAVE 80% COVERAGE OF A PERENNIAL TYPE GROUND COVER WITHIN 90 DAYS OF PLANTING. AT LEAST 75% COVERAGE MUST BE PROVIDED BY A SEASONAL COVERAGE WITHIN 30 DAYS OF PLANTING.
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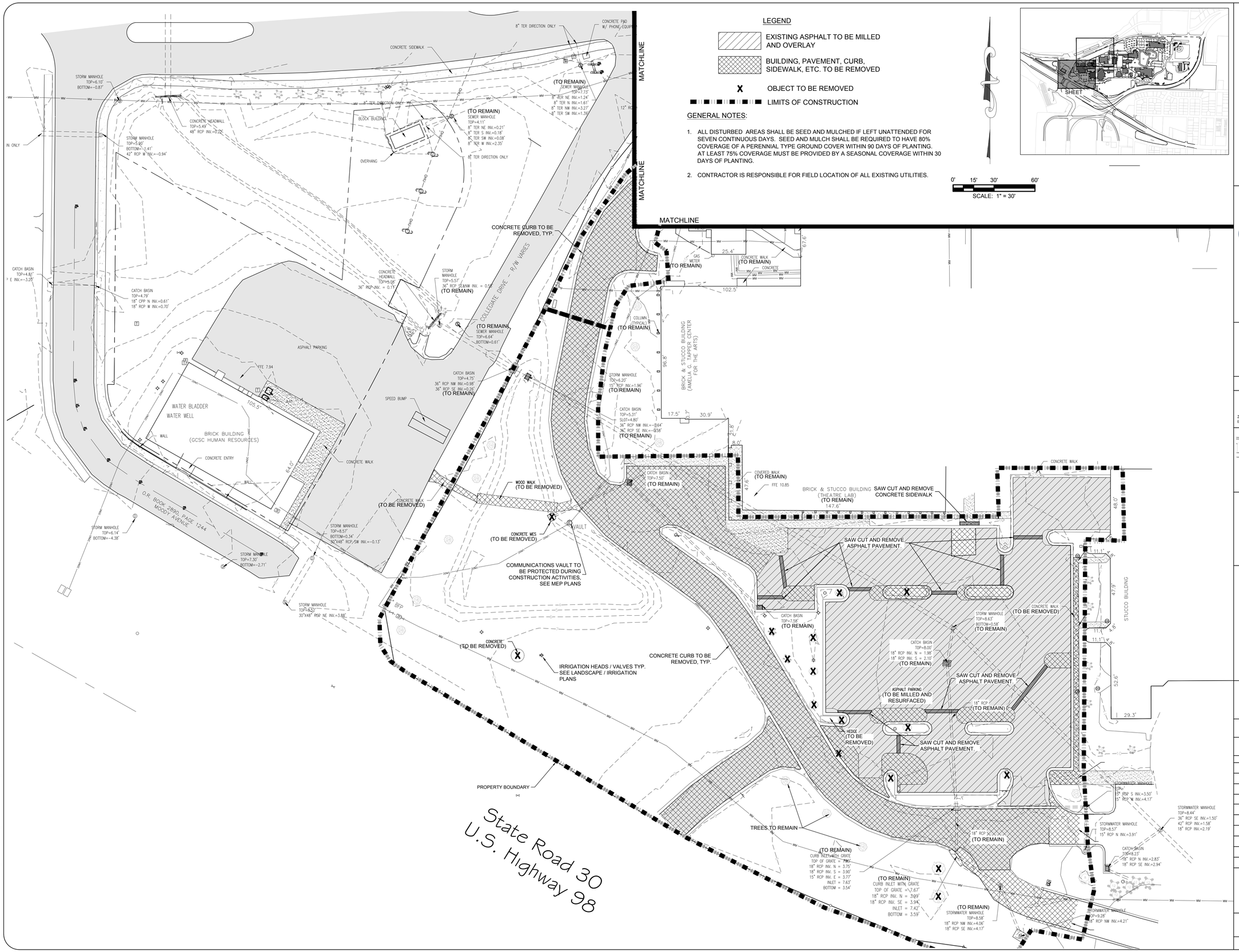


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## LEGEND

INLET PROTECTION

SILT FENCE

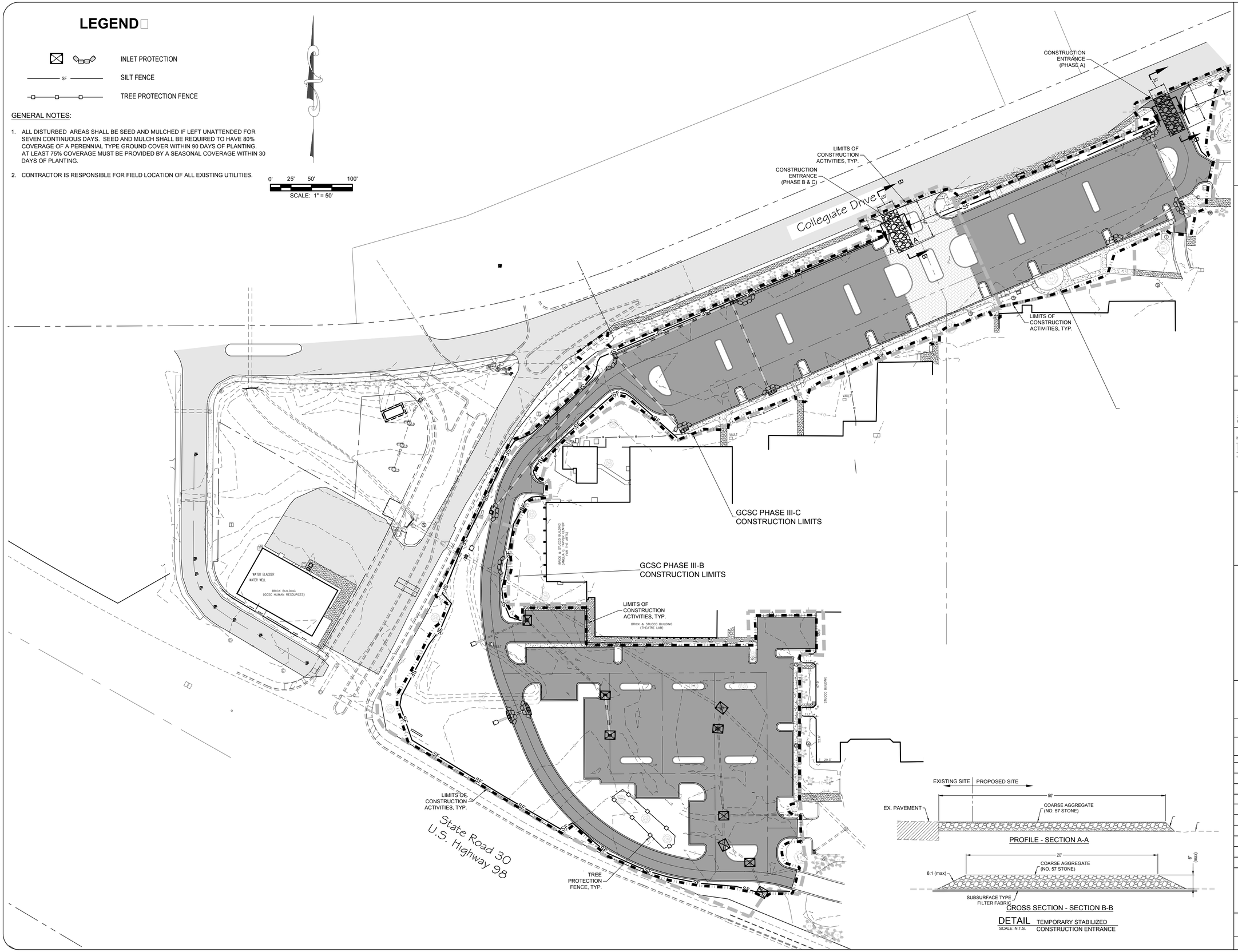
TREE PROTECTION FENCE

GENERAL NOTES:

1. ALL DISTURBED AREAS SHALL BE SEED AND MULCHED IF LEFT UNATTENDED FOR SEVEN CONTINUOUS DAYS. SEED AND MULCH SHALL BE REQUIRED TO HAVE 80% COVERAGE OF A PERENNIAL TYPE GROUND COVER WITHIN 90 DAYS OF PLANTING. AT LEAST 75% COVERAGE MUST BE PROVIDED BY A SEASONAL COVERAGE WITHIN 30 DAYS OF PLANTING.
2. CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATION OF ALL EXISTING UTILITIES.

0' 25' 50' 100'

SCALE: 1" = 50'







DETAIL TEMPORARY STABILIZED CONSTRUCTION ENTRANCE

SCALE: N.T.S.

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STORMWATER POLLUTION PREVENTION PLAN

1.0 SITE DESCRIPTION

A. NATURE OF CONSTRUCTION ACTIVITY:
THIS PROJECT CONSISTS OF THE DEMOLITION OF EXISTING PARKING AND RECONSTRUCTION OF PAVED PARKING, DRIVEWAYS, STORMWATER CONVEYANCE, SIDEWALKS AND LANDSCAPE ISLANDS.

B. SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:
THE FOLLOWING SEQUENCE OF MAJOR ACTIVITIES SHALL BE FOLLOWED UNLESS THE CONTRACTOR CAN PROPOSE AN ALTERNATIVE THAT IS EQUAL OR BETTER AT CONTROLLING EROSION AND SEDIMENT AND IS APPROVED BY THE ENGINEER. THE DETAILED SEQUENCE FOR THE ENTIRE PROJECT CAN VARY SIGNIFICANTLY FROM CONTRACTOR TO CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A DETAILED SEQUENCE OF CONSTRUCTION FOR ALL CONSTRUCTION ACTIVIES IN SECTION 104 EROSION CONTROL PLANS.

FOR EACH CONSTRUCTION PHASE, INSTALL PERIMETER CONTROLS BEFORE BEGINNING OTHER WORK FOR THE CONSTRUCTION PHASE. REMOVE PERIMETER CONTROLS ONLY AFTER DISTURBED AREAS ARE STABILIZED.

C. AREA ESTIMATES

| | |
|---|---|
| TOTAL SITE AREA: | 72 AC. |
| TOTAL AREA DISTURBED: | 5.49 AC. |

D. RUNOFF DATA:
RUNOFF COEFFICIENT:

| | |
|---|---|
| BEFORE: | 0.30 (UNPAVED); 0.98 (PAVED) |
| DURING: | FROM 0.30 TO 0.50 (UNPAVED); 0.30 TO 0.98 (PAVED) |
| AFTER: | 0.30 (UNPAVED); 0.98 (PAVED) |

SOIL DATA:

SEE ATTACHED GEOTECHNICAL REPORT

OUTFALL INFORMATION:
ALL DRAINAGE WILL CONNECT TO EXISTING OUTFALLS.

E. SITE MAP:
THE LOCATION MAP ON THE KEY SHEET DESCRIBES THE SITE.
SPECIFICALLY:
DRAINAGE PATTERNS:
EXISTING DRAINAGE FLOWS GENERALLY TO LOCAL DRAINAGE NETWORKS OR DIRECTLY TO ADJACENT WOODS AND ULTIMATELY TO NORTH BAY.

APPROXIMATE SLOPES: 0 TO 5 PERCENT
AREA OF SOIL DISTURBANCE: PROPOSED SITE, DRIVEWAYS, PARKING, AND DEMOLISHED FACILITIES.
AREAS NOT TO BE DISTURBED: OUTSIDE OF EXISTING PROJECT LIMITS.

LOCATIONS OF TEMPORARY CONTROLS:
TEMPORARY STABILIZATION PRACTICES WILL BE DESCRIBED IN THE NARRATIVE.
LOCATIONS OF PERMANENT CONTROLS:
LOCATION OF PERMANENT STABILIZATION IS SHOWN ON THE PLANS.
AREAS TO BE STABILIZED:
TEMPORARY STABILIZATION PRACTICES ARE SHOWN IN THE SAME LOCATION AS THE TEMPORARY CONTROLS MENTIONED ABOVE. PERMANENT STABILIZATION IS SHOWN ON THE PLAN SHEETS.

SURFACE WATERS: NONE

DISCHARGE POINTS TO SURFACE WATERS: NO NEW DISCHARGE POINTS.

F. RECEIVING WATERS:
RUNOFF FROM THE EXISTING DRAINAGE SYSTEM DISCHARGES THROUGH TREATMENT FACILITIES TO NORTH BAY.

2.0 CONTROLS

A. EROSION AND SEDIMENT CONTROLS:

THE FOLLOWING DISCUSSION DEFINES GENERAL GUIDELINES FOR THE SEQUENCES OF CONSTRUCTION AND THE USE OF STABILIZATION AND STRUCTURAL PRACTICES. THE CONTRACTOR IS ALSO RESPONSIBLE FOR DOCUMENTING THIS PORTION OF THE SWPPP IN THE SECTION 104 EROSION CONTROL PLAN. ALL ITEMS REPRESENTED IN THE FOLLOWING DISCUSSION ARE TREATED IN DETAIL IN THE "FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (2010). THE CONTRACTOR SHALL GENERATE AN IMPLEMENTATION SCHEDULE FOR EACH PHASE OF CONSTRUCTION OPERATIONS OR ACTIVITIES.

1. STABILIZATION PRACTICES:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE STABILIZATION PRACTICES PROPOSED TO CONTROL EROSION. THE CONTRACTOR SHALL INITIATE ALL STABILIZATION MEASURES AS SOON AS PRACTICAL BUT IN NO CASE IN MORE THAN 7 DAYS. THE STABILIZATION PRACTICES SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

PERMANENT:
SOD IN ACCORDANCE WITH SPECIFICATION SECTION 575. ALL STABILIZATION PRACTICES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES ARE TEMPORARILY OR PERMANENTLY CEASED. THE CONTRACTOR IS ALSO RESPONSIBLE FOR DOCUMENTING THIS PORTION OF THE SWPPP ON THE SECTION 104 EROSION CONTROL PLAN.

TEMPORARY:
SEED AND MULCH AND SOD IN ACCORDANCE WITH SPECIFICATION SECTION 104.

2. STRUCTURAL PRACTICES:

ALL SEDIMENT CONTROLS SHALL BE IN PLACE PRIOR TO ANY SOIL DISTURBING ACTIVITY UPSTREAM OF THE CONTROL. THE CONTRACTOR IS ALSO RESPONSIBLE FOR DOCUMENTING THIS PORTION OF THE SWPPP ON THE SECTION 104 EROSION CONTROL PLAN.

TEMPORARY:
SEDIMENT BARRIERS, TURBIDITY BARRIERS AND INLET PROTECTION

B. STORMWATER MANAGEMENT

STORMWATER WILL BE CONVEYED THROUGH CLOSED CONVEYANCE SYSTEMS AND DITCHES TO LOCAL STORMWATER TREATMENT FACILITIES.

C. OTHER CONTROLS

1. WASTE DISPOSAL:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE PROPOSED METHODS TO PREVENT THE DISCHARGE OF SOLID MATERIALS, INCLUDING BUILDING MATERIALS, TO WATERS OF THE UNITED STATES. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

PROVIDE LITTER CONTROL AND COLLECTION WITHIN THE PROJECT DURING CONSTRUCTION ACTIVITES.

DISPOSE OF ALL FERTILIZER OR OTHER CHEMICAL CONTAINERS ACCORDING TO EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER.

DISPOSE OF SOLID MATERIALS INCLUDING BUILDING AND CONSTRUCTION MATERIALS OFFSITE BUT NOT IN SURFACE WATERS OR WETLANDS.

2. OFFSITE VEHICLE TRACKING:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS FOR MINIMIZING OFFSITE VEHICLE TRACKING OF SEDIMENTS AND GENERATING DUST. UNLESS APPROVED BY THE ENGINEER, THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING.

COVERING LOADED HAUL TRUCKS WITH TARPAULINS.

REMOVING EXCESS DIRT FROM ROADS DAILY.

STABILIZING CONSTRUCTION ENTRANCES ACCORDING TO DESIGN STANDARD 106.

USING ROADWAY SWEEPERS DURING DUST GENERATING ACTIVITIES SUCH AS EXCAVATION AND MILLING OPERATIONS.

3. STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, SANITARY SEWER OR SEPTIC TANK

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED PROCEDURES TO COMPLY WITH APPLICABLE STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, SANITARY SEWER AND SEPTIC SYSTEMS.

4. FERTILIZERS AND PESTICIDES:

FERTILIZERS SHALL BE APPLIED ACCORDING TO SPECIFICATION SECTION 570 OR 577 OF THE FDOT STANDARD SPECIFICATIONS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR DOCUMENTING THIS PORTION OF THE SWPPP ON THE SECTION 104 EROSION CONTROL PLAN.

5. TOXIC SUBSTANCES:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A LIST OF TOXIC SUBSTANCES THAT ARE LIKELY TO BE USED ON THE JOB AND PROVIDE A PLAN ADDRESSING THE GENERATION, APPLICATION, MIGRATION, STORAGE AND DISPOSAL OF THESE SUBSTANCES.

3.0 MAINTENANCE:

| PROPOSED REPLACEMENT ITEM | MAINTENANCE | INTERVAL |
|---|---|---|
| SILT FENCE | IN ACCORDANCE WITH SECTION 104 | 1 YEAR |
| INLET PROTECTION | REMOVE MILLED MATERIAL AND DEBRIS FROM BAGS TO KEEP FROM ENTERING TRAFFIC LANE AND CURB INLETS | 1 YEAR |

THE CONTRACTOR IS ALSO RESPONSIBLE FOR DOCUMENTING THIS PORTION OF THE SWPPP ON THE SECTION 104 EROSION CONTROL PLAN

4.0 INSPECTIONS

QUALIFIED PERSONNEL SHALL INSPECT THE FOLLOWING ITEMS AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES OR GREATER. THE ENGINEER SHALL BE RESPONSIBLE FOR COMPLETING THE WEEKLY INSPECTION REPORT FORM AND SUBMISSION OF THE FORM TO THE FDOT CENTRAL OFFICE ON A MONTHLY BASIS. WHERE SITES HAVE BEEN FINALLY STABILIZED, INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH.

- POINTS OF DISCHARGE TO WATERS OF THE UNITED STATES

- DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED

- STRUCTURAL CONTROLS

- AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION

- LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE

5.0 NON-STORMWATER DISCHARGES

THE CONTRACTOR IS ALSO RESPONSIBLE FOR DOCUMENTING THIS PORTION OF THE SWPPP ON THE SECTION 104 EROSION CONTROL PLAN. IF CONTAMINATED SOIL OR GROUNDWATER IS ENCOUNTERED, CONTACT THE PROJECT ADMINISTRATOR AND ENGINEER OF RECORD IMMEDIATELY.

PHASING OF IMPLEMENTATION

PHASE I - INSTALLATION OF ENVIRONMENTAL CONTROL FEATURES

ENVIRONMENTAL CONTROL FEATURES AS PROVIDED IN PLANS QUANTITIES ARE TO BE INSTALLED THROUGHOUT THE CONSTRUCTION LIMITS, AT ENVIRONMENTALLY SENSITIVE AREAS AS SHOWN ON THE PLANS, OR AT AREAS AS DIRECTED BY THE PROJECT ADMINISTRATOR. THESE FEATURES INCLUDE, BUT ARE NOT LIMITED TO, SILT FENCE, SYNTHETIC BALES, ETC.

PHASE II - SITE WORK OPERATIONS

SITE WORK SHALL BE DONE AS INDICATED ON THE PLANS.

PHASE III - DRAINAGE SYSTEM OR STRUCTURE ENVIRONMENTAL CONTROL FEATURES

ENVIRONMENTAL CONTROL FEATURES AS PROVIDED IN PLANS ARE TO BE INSTALLED AT ALL AREAS OF EXCAVATION OR FILL FOR DRAINAGE SYSTEM OR STRUCTURE CONSTRUCTION PRIOR TO SUCH EXCAVATION OR FILL. ALL STREAMS OR DITCHES ARE TO BE PROTECTED FROM EROSION OR SILTATION BY METHODS DETAILED IN THE STANDARD INDICES. THESE INCLUDE SILT FENCE, SYNTHETIC BALES, ETC.

PHASE IV - MAINTENANCE OF ENVIRONMENTAL CONTROL FEATURES

ALL ENVIRONMENTAL CONTROL FEATURES ARE TO BE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT AS NECESSARY FOR THE VARIOUS CONSTRUCTION PHASES. THE CONTRACTOR MUST INSURE THAT ALL OF THESE FEATURES FUNCTION PROPERLY AT ALL TIMES.

GENERAL NOTES

1. THE CONTRACTOR MAY CONSTRUCT THE PROJECT IN SEGMENTS BUT EACH OF THE ABOVE PHASES MUST BE FOLLOWED FOR EACH SEGMENT.

2. ALL EROSION AND MATERIAL DEPOSITS MUST BE CONTAINED WITHIN THE PROJECT LIMITS.

## STORMWATER SYSTEM MAINTENANCE NOTES:

1. CONTRACTOR SHALL STAGE AND TIME CONSTRUCTION TO MINIMIZE THE SIZE OF EXPOSED SOIL AREAS AND THE TIME BETWEEN EXPOSING THE SOIL AREA AND FINISHING THE SOIL AREA.

2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR PERFORMING A TASK TO PROVIDE EROSION CONTROL UNLESS ANOTHER PARTY HAS BEEN PREVIOUSLY SPECIFIED AS RESPONSIBLE FOR THE EROSION CONTROL ASSOCIATED WITH THAT TASK. IN THE EVENT ANOTHER PARTY IS RESPONSIBLE FOR EROSION CONTROL, THE CONTRACTOR SHALL STILL BE RESPONSIBLE FOR COORDINATION WITH THE PARTY RESPONSIBLE. IN THE EVENT THAT DAMAGE TO THE CONSTRUCTED ITEM RESULTS ARE DUE TO LACK OF EROSION CONTROL, THE CONTRACTOR SHALL REPAIR OR REPLACE THE ITEM AT NO CHARGE TO THE OWNER.

3. THE CONTRACTOR IS TO PROVIDE EROSION CONTROL/ SEDIMENTATION BARRIER (HAY BALES, SILT FENCE, TURBIDITY BARRIER, OR AS SPECIFIED IN THE CONSTRUCTION DRAWINGS) TO PREVENT SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS, WATERWAYS, AND WETLAND OR JURISDICTIONAL AREAS. IF, IN THE OPINION OF THE ENGINEER, AND/OR REGULATORY AUTHORITIES, EXCESSIVE QUANTITIES OF MATERIAL ARE TRANSPORTED OFF-SITE BY EROSION OR STORMWATER RUNOFF, THE CONTRACTOR SHALL IMPROVE CONDITIONS TO THE SATISFACTION OF THE ENGINEER AND/OR AUTHORITIES AT NO ADDITIONAL COST TO THE OWNER. IN NO CASE SHALL CONSTRUCTION COMMENCE PRIOR TO INSTALLATION OF EROSION CONTROL/SEDIMENTATION BARRIER.

4. CONTRACTOR SHALL PLACE STRAW, MULCH, OR OTHER SUITABLE MATERIAL ON GROUND IN AREAS WHERE CONSTRUCTION-RELATED TRAFFIC IS TO ENTER AND EXIT SITE.

5. IF WIND EROSION BECOMES SIGNIFICANT DURING CONSTRUCTION, THE CONTRACTOR SHALL STABILIZE THE AREA USING SPRINKLING IRRIGATION OR OTHER ACCEPTABLE METHODS.

6. ALL NEW DRAINAGE PIPE SHALL BE AS INDICATED ON PLANS OR APPROVED EQUAL.

7. CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION MONITORING, NOTICE OF COMMENCEMENT, AND AS-BUILT CERTIFICATION.

8. CONTRACTOR SHALL PREPARE A DEWATERING AND STOCKPILE PLAN AS PART OF THE NPDES PERMIT PROCESS.

9. THE OWNER IS TO MAINTAIN THE STORMWATER SYSTEM PER THE OPERATION AND MAINTENANCE PLAN.

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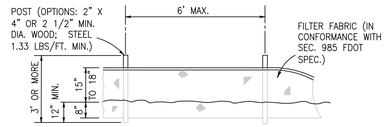
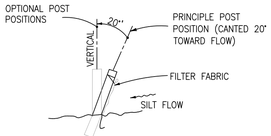


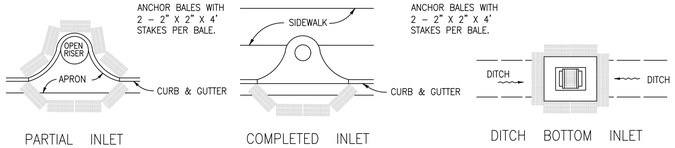

ELEVATION



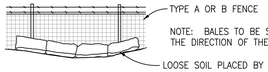

SECTION

NOTE: SILT FENCE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED SILT FENCE (LF).

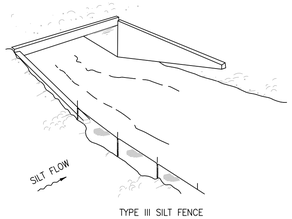
## TYPE III SILT FENCE



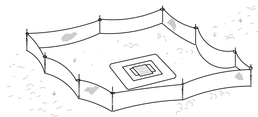

PROTECTION AROUND INLETS OR SIMILAR STRUCTURES




BALES BACKED BY FENCE




TYPE III SILT FENCE



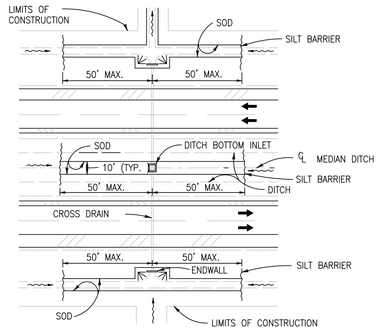
TYPE III SILT FENCE PROTECTION AROUND DITCH BOTTOM INLETS.

NOTE: SPACING FOR TYPE III FENCE TO BE IN ACCORDANCE WITH CHART 1, SHEET 1 OF 3 AND DITCH INSTALLATIONS AT DRAINAGE STRUCTURES SHEET 2 OF 3.

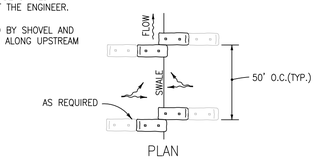
TYPE III SILT FENCE

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.

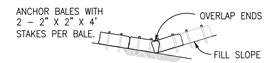
## SILT FENCE APPLICATIONS




DITCH INSTALLATIONS AT DRAINAGE STRUCTURES

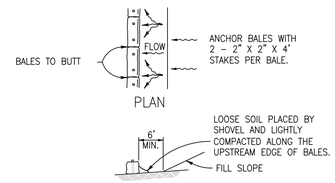



PLAN




ELEVATION

TO BE USED AT SELECTED SITES WHERE THE NATURAL GROUND SLOPES TOWARD THE TOE OF SLOPE

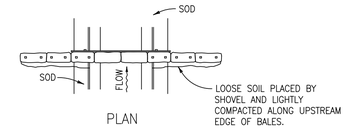



PLAN

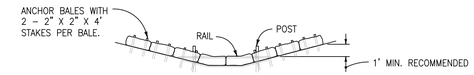
ELEVATION

TO BE USED AT SELECTED SITES WHERE THE NATURAL GROUND SLOPES AWAY FROM THE TOE OF SLOPE

## BARRIERS FOR FILL SLOPES



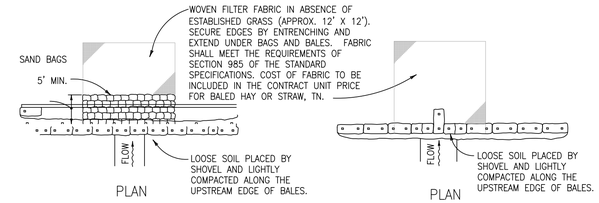

PLAN



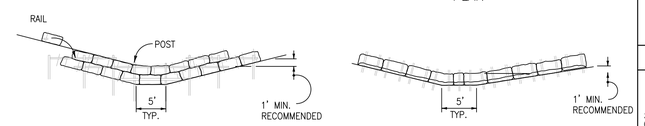

ELEVATION

SPACING: BALE BARRIERS FOR PAVED DITCHES SHOULD BE SPACED IN ACCORDANCE WITH THE CHART BELOW

## BARRIER FOR PAVED DITCH




PLAN PLAN




ANCHOR LOWER BALES WITH 2 – 2" X 2" X 4' STAKES PER BALE. ANCHOR TOP BALES TO LOWER BALES WITH 2 – 2" X 2" X 4' STAKES PER BALE.

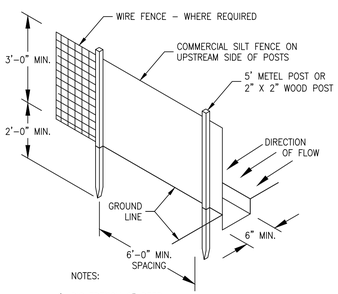
ANCHOR BALES WITH 2 – 2" X 2" X 4' STAKES PER BALE

ELEVATION ELEVATION

APPLICATION AND SPACING: THE USE OF TYPES I & II BALE BARRIERS SHOULD BE LIMITED TO THE CONDITIONS OUTLINED IN THE CHART BELOW.

TYPE II TYPE I

## BARRIER FOR UNPAVED DITCHES

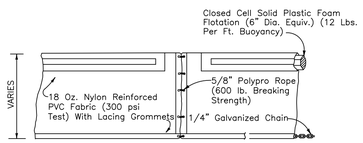



NOTES:

1. DIG TRENCH 6" DEEP.
2. LAY IN FABRIC TO BOTTOM OF TRENCH.
3. BACK TRENCH, COVERING FABRIC.

## DETAIL SILT FENCE

SCALE: N.T.S.




TYPE 1

## DETAIL TURBIDITY CURTAIN

SCALE: N.T.S.

## DEWATERING NOTES

1. THE FACILITY IS AUTHORIZED TO DISCHARGE PRODUCED GROUND WATER FROM ANY NON–CONTAMINATED SITE ACTIVITY WHICH DISCHARGES BY A POINT SOURCE TO SURFACE WATERS OF THE STATE, AS DEFINED IN CHAPTER 62–620, F.A.C., ONLY IF THE REPORTED VALUES FOR THE PARAMETERS LISTED IN TABLE 1 DO NOT EXCEED ANY OF THE LISTED SCREENING VALUES. BEFORE DISCHARGE OF PRODUCED GROUND WATER CAN OCCUR FROM SUCH SITES, ANALYTICAL TESTS ON SAMPLES OF THE PROPOSED UNTREATED DISCHARGE WATER SHALL BE PERFORMED TO DETERMINE IF CONTAMINATION EXISTS.
2. MINIMUM REPORTING REQUIREMENTS FOR ALL PRODUCED GROUND WATER DISCHARGES. THE EFFLUENT SHALL BE SAMPLED BEFORE THE COMMENCEMENT OF DISCHARGE, AGAIN WITHIN THIRTY (30) DAYS AFTER COMMENCEMENT OF DISCHARGE, AND THEN ONCE EVERY SIX (6) MONTHS FOR THE LIFE OF THE PROJECT. SAMPLES SHALL BE TAKEN PRIOR TO ACTUAL DISCHARGE OR MIXING WITH THE RECEIVING WATERS. THE EFFLUENT SHALL BE SAMPLED FOR THE PARAMETERS LISTED IN TABLE 1.

Table 1

| | Screening Values for Discharges into: | |
|---|---|---|
| Parameter | Fresh Waters | Coastal Waters |
| Total Organic Carbon (TOC) | 10.0 mg/L | 10.0 mg/L |
| pH, standard units | 6.0 – 8.5 | 6.5 – 8.5 |
| Total Recoverable Mercury | 0.012 µg/L | 0.025 µg/L |
| Total Recoverable Cadmium | 9.3 µg/L | 9.3 µg/L |
| Total Recoverable Copper | 2.9 µg/L | 2.9 µg/L |
| Total Recoverable Lead | 0.03 mg/L | 5.6 µg/L |
| Total Recoverable Zinc | 86.0 µg/L | 86.0 µ/L |
| Total Recoverable Chromium (Hex.) | 11.0 µg/L | 50.0 µg/L |
| Benzene | 1.0 µg/L | 1.0 µg/L |
| Naphthalene | 100.0 µg/L | 100.0 µg/L |

3. FOR FRESH WATERS AND COASTAL WATERS, THE PH OF THE EFFLUENT SHALL NOT BE LOWERED TO LESS THAN 6.0 UNITS FOR FRESH WATERS, OF LESS THAN 6.5 UNITS FOR COASTAL WATERS, OR RAISED ABOVE 8.5 UNITS, UNLESS NATURAL BACKGROUND DATA CONFIRMING A NATURAL BACKGROUND PH OUTSIDE OF THIS RANGE IS SUBMITTED. IF NATURAL BACKGROUND OF THE RECEIVING WATER IS DETERMINED TO BE LESS THAN 6.0 UNITS FOR FRESH WATERS, OR LESS THAN 6.5 UNITS IN COASTAL WATERS, THE PH SHALL NOT VARY BELOW NATURAL BACKGROUND OR VARY MORE THAN ONE (1) UNIT ABOVE NATURAL BACKGROUND FOR FRESH AND COASTAL WATERS. IF NATURAL BACKGROUND OF THE RECEIVING WATER IS DETERMINED TO BE HIGHER THAN 8.5 UNITS, THE PH SHALL NOT VARY ABOVE NATURAL BACKGROUND OR VARY MORE THAN ONE (1) UNIT BELOW NATURAL BACKGROUND OF FRESH AND COASTAL WATERS. THE CONTRACTOR SHALL INCLUDE THE NATURAL BACKGROUND PH OF THE RECEIVING WATERS WITH THE RESULTS OF THE ANALYSES LISTED IN NOTE 2. FOR PURPOSES OF THIS SECTION ONLY, FRESH WATERS ARE THOSE HAVING A CHLORIDE CONCENTRATION OF LESS THAN 1500 MG/L, AND COASTAL WATERS ARE THOSE HAVING A CHLORIDE CONCENTRATION EQUAL TO OR GREATER THAN 1500 MG/L.
4. IN ACCORDANCE WITH RULE 62–302.500 (1) (A–C), F.A.C., THE DISCHARGE SHALL AT ALL TIMES BE FREE FROM FLOATING SOLIDS, VISIBLE FOAM, TURBIDITY, OR VISIBLE OIL IN SUCH AMOUNTS AS TO FORM NUISANCES ON SURFACE WATERS.
5. ALL OF THE GENERAL CONDITIONS LISTED IN RULE 62–621.250, F.A.C., ARE APPLICABLE.

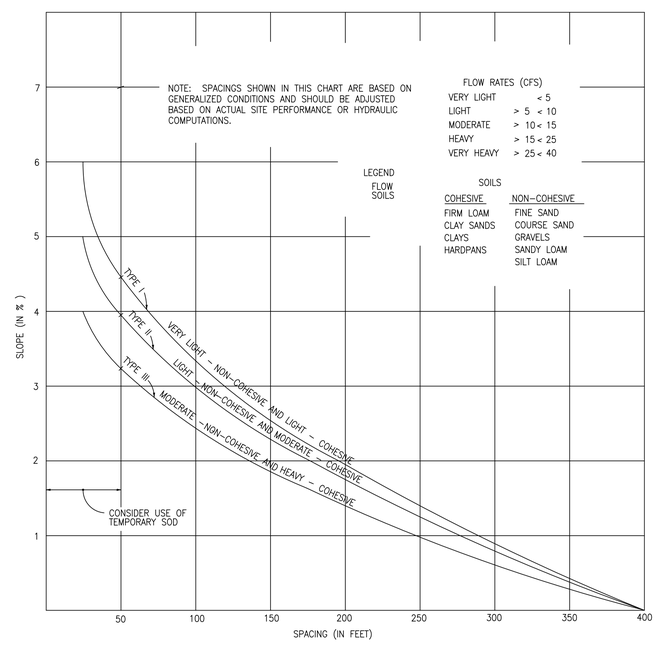



CHART I

## RECOMMENDED SPACING FOR TYPE I AND TYPE II HAY BALE BARRIERS, AND TYPE III SILT FENCES

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Dewberry PREBLE-RISH
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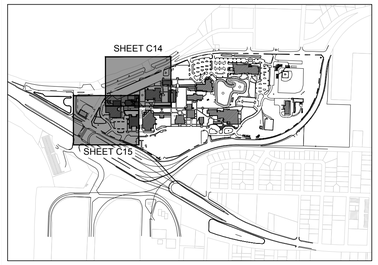


KEY MAP
N.T.S.

0' 25' 50' 100'
SCALE: 1" = 50'

LEGEND:

- EXISTING ASPHALT - NO OVERLAY
- PROPOSED ASPHALT, BASE AND SUBBASE
- PROPOSED ASPHALT OVERLAY
- PROPOSED PAVERS (SEE ARCHITECTURAL PLANS)
- PROPOSED SIDEWALK
- PROPOSED LIGHT POLE (SEE LIGHTING PLAN)

Collegiate Drive

MATCHLINE

L=106.98
R=1186.28'
D=5°10'01"
CB=N69°55'34"E
CH=106.94'

L=137.80
R=484.30'
D=16°58'46"
CB=N45°19'19"E
CH=137.35'

L=34.84
R=259.50'
D=7°41'32"
CB=N28°49'40"E
CH=34.81'

N32°56'32"E 170.53'

L=155.99
R=1540.50'
D=5°48'06"
CB=N27°50'57"E
CH=155.92'

N32°43'00"E 58.08'

N59°15'00"W 200.00'

L=165.32
R=1121.06'
D=8°26'59"
CB=N63°28'29"W
CH=165.17'

N67°42'00"W 167.11'

N82°07'06"W 36.14'

FOUND NAIL & SHINER

GCSC PHASE III-C
CONSTRUCTION LIMITS

GCSC PHASE III-B
CONSTRUCTION LIMITS

BRICK & STUCCO BUILDING
(AMELIA E. TAPPER CENTER
FOR THE ARTS)

BRICK & STUCCO BUILDING
(THEATRE LAB)

STUCCO BUILDING

WATER BLADDER
WATER WELL

BRICK BUILDING
(GCSC HUMAN RESOURCES)

VAULT

State Road 30
U.S. Highway 98

FOUND NAIL & SHINER

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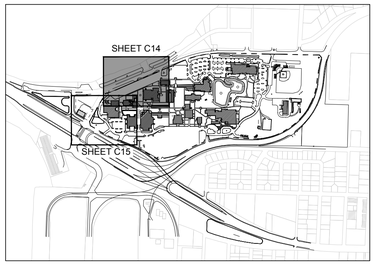


KEY MAP
N.T.S.

0' 15' 30' 60'
SCALE: 1" = 30'

LEGEND:

- EXISTING ASPHALT - NO OVERLAY
- PROPOSED ASPHALT, BASE AND SUBBASE
- PROPOSED ASPHALT OVERLAY
- PROPOSED PAVERS (SEE ARCHITECTURAL PLANS)
- PROPOSED SIDEWALK
- PROPOSED LIGHT POLE (SEE LIGHTING PLAN)

Collegiate Drive

COLLEGIATE DRIVE

MATCHLINE

MATCHLINE

MATCHLINE

MATCHLINE

BEGIN MODIFIED TYPE F CURB, SEE DETAIL, TYP. MATCH TO EXISTING CURB

MATCH EXISTING

CONSTRUCT HANDICAP RAMP PER FDOT INDEX #304 (CR F)

CONSTRUCT HANDICAP RAMP PER FDOT INDEX #304 (CR C)

CONSTRUCT BRICK PAVER SIDEWALK AS SHOWN SEE ARCHITECTURAL PLANS

MODIFIED TYPE F CURB

TYPE D CURB

MODIFIED F CURB

N66° 45' 48"E 342.40'

N67° 14' 12"W 30.00' (R/W)

S66° 45' 45"W 307.76'

N23° 17' 55"W 23.37'

N23° 17' 55"W 64.00'

S66° 40' 25"W 374.27'

N66° 40' 25"E 352.25'

N47° 09' 34"E 89.76'

S51° 04' 33"E 53.94'

PROPERTY BOUNDARY

L=106.98
R=1186.28'
D=5°10'01"
CB=N69°55'34"E
CH=106.94'

L=27.10
R=200.00
T=13.572
CH=27.08
Δ=7.76

L=41.01
R=200.00'
T=20.578
CH=40.94
Δ=11.75

L=29.33
R=27.00
T=16.304
CH=27.91
Δ=62.25

PROPOSED LIGHT POLE, TYP.

WHEEL STOP, TYP.

CONSTRUCT 18" WIDE CONCRETE ISLAND FLUME PER DETAIL, TYP.

CONSTRUCT 5' WIDE CONCRETE SIDEWALK

CHAMFER ALL SIDEWALK CONNECTIONS, TYP.

CONSTRUCT PAVER AREA AS SHOWN SEE ARCHITECTURAL PLANS

VAULT

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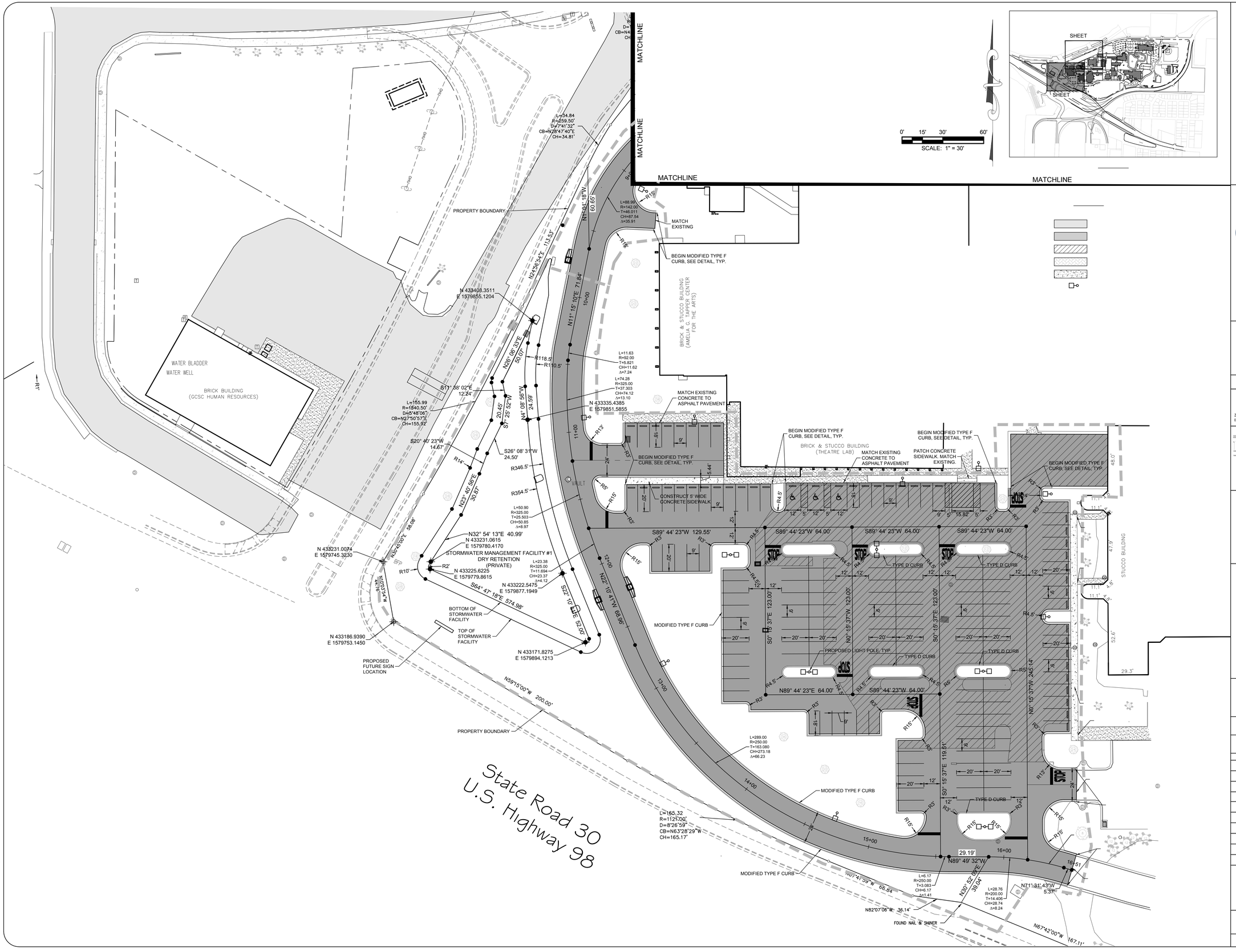


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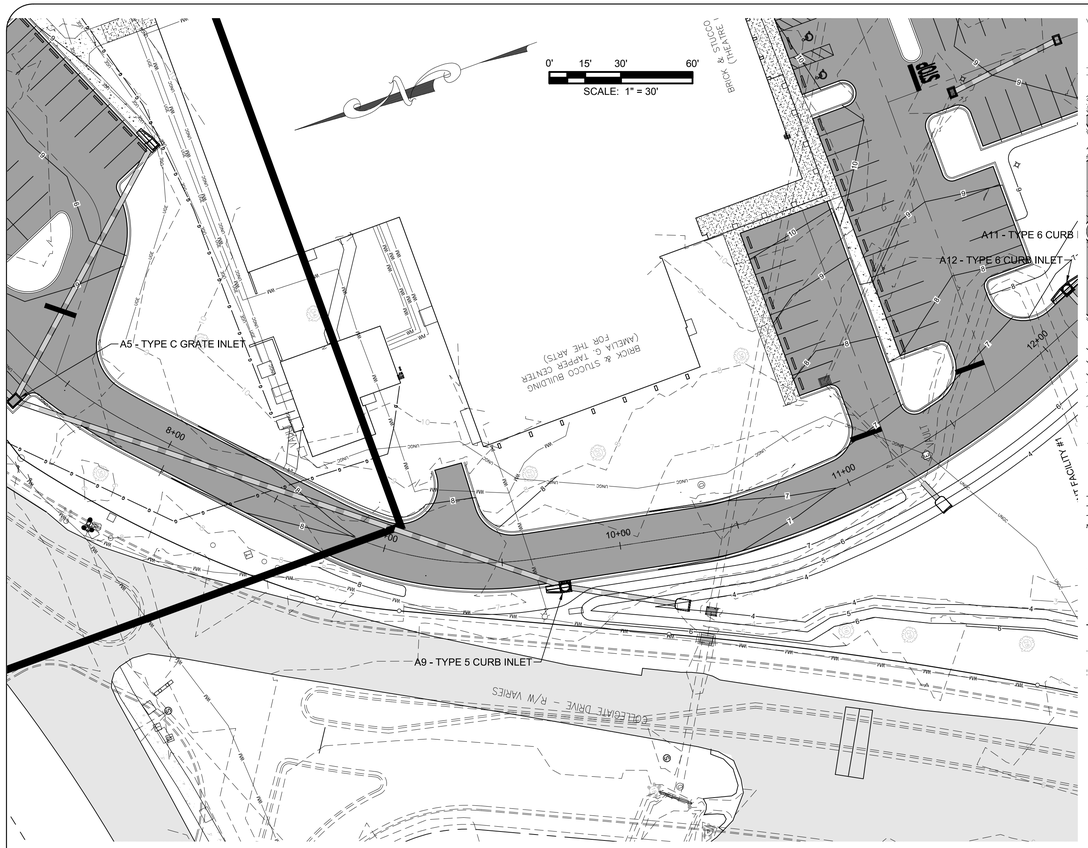
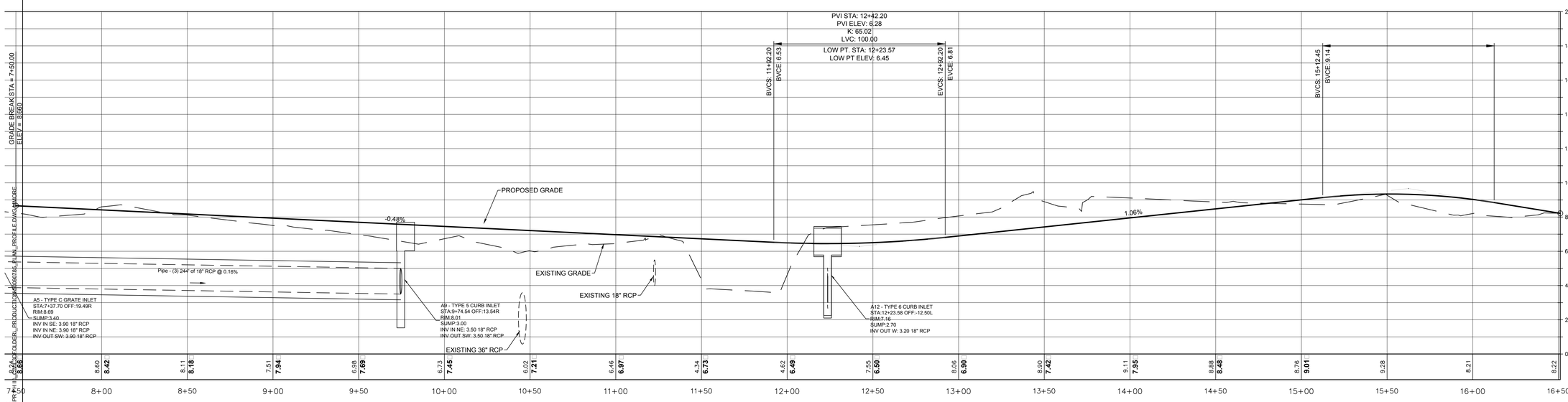


State Road 30
U.S. Highway 98

MAIN ROAD – WEST PROFILE

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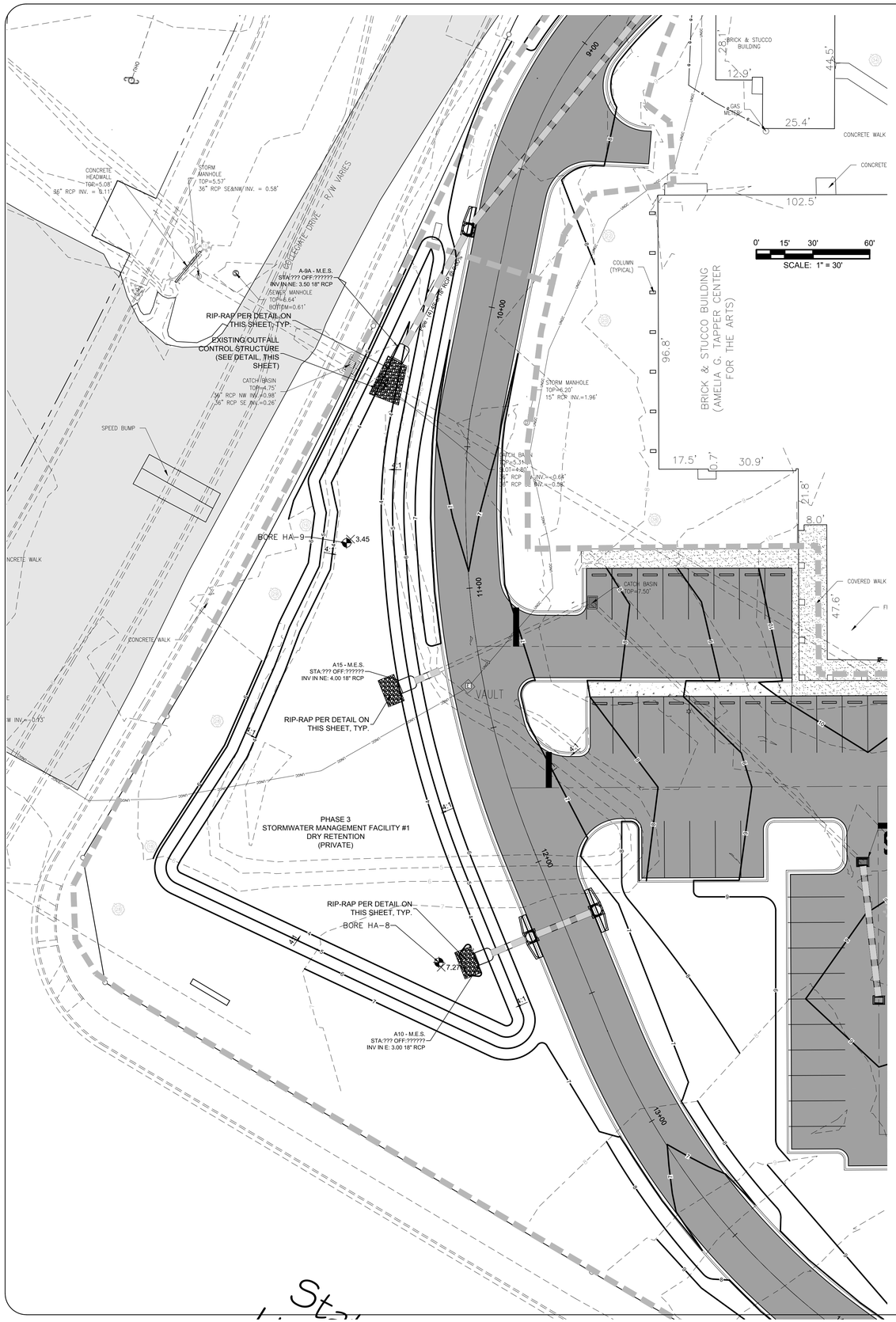
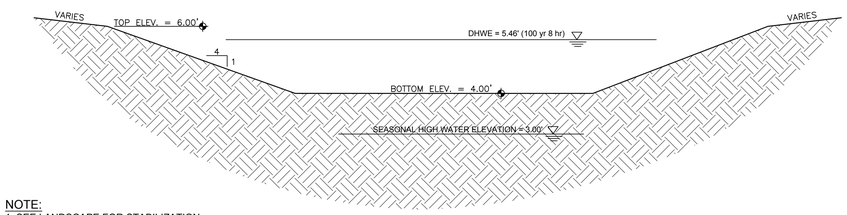
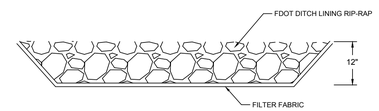


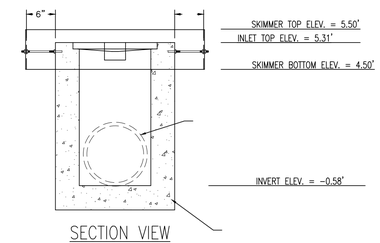




NOTE:
1. SEE LANDSCAPE FOR STABILIZATION.

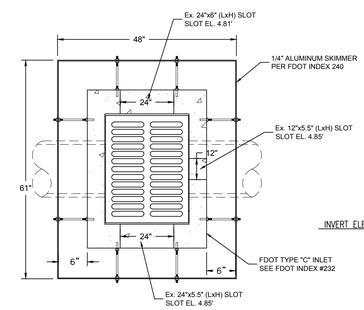
## SECTION
SCALE: N.T.S. TYPICAL POND SECTION



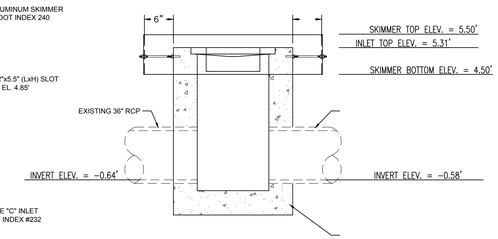

## DETAIL
SCALE: N.T.S. RIP-RAP DETAIL




SECTION VIEW




PLAN VIEW




SECTION VIEW

## DETAIL CONCRETE OUTFALL CONTROL STRUCTURE (TYPE C)
SCALE: N.T.S.

STORMWATER OPERATION/MAINTENANCE PLAN
OPERATION AND MAINTENANCE ENTITY IS GULF COAST STATE COLEGE.

AFTER EACH RAINFALL EVENT

1. PAVEMENT AREAS – CLEAN/SWEEP DEBRIS AND DIRT FROM PAVEMENT AREAS.
2. SEDIMENTS IN RETENTION/DETENTION AREAS – REMOVED IMMEDIATELY.
3. DEBRIS IN RETENTION/DETENTION AREAS – ALL DEBRIS AND FOREIGN MATERIAL SHALL BE REMOVED IMMEDIATELY.
4. YARD INLETS, CATCH BASINS, ETC. – ALL DEBRIS AND FOREIGN MATERIALS SHALL BE REMOVED IMMEDIATELY.

PERIODIC POND/SYSTEM MAINTENANCE

1. CLEANING/SWEEPING OF PAVEMENT AREAS SHALL BE ACCOMPLISHED WEEKLY OR AS REQUIRED.
2. INSPECT POND PERIODICALLY FOR ACCUMULATION OF TRASH AND DEBRIS AND REMOVE IT UPON DISCOVERY.
3. MOWING AND LANDSCAPING MAINTENANCE SHOULD BE DONE ON A MONTHLY BASIS DURING THE ACTIVE GROWING SEASON FOR THE AREA. INSPECT AND MAINTAIN AS REQUIRED DURING THE GROWING SEASON.
4. WEEDS OR UNDESIRABLE GROWTH SHALL BE REMOVED UPON DISCOVERY.
5. CATCH BASINS SHALL BE FLUSHED AS NECESSARY (IF ANY).
6. THE OWNER SHALL RE-GRADE AND RE-STABILIZE SWALE/RETENTION/DETENTION AREAS AS REQUIRED TO MAINTAIN THE APPROVED DESIGN, CROSS-SECTION, LINE, AND GRADE.
7. REMOVE SEDIMENT FROM POND WHEN ACCUMULATION REACHES FOUR (4) INCHES. MEASURE ACCUMULATION ONCE A YEAR.

INSPECTIONS

1. A MAINTENANCE INSPECTION MUST BE PERFORMED EVERY THIRD YEAR BY A REGISTERED PROFESSIONAL.
2. THE MAINTENANCE INSPECTION MUST BE DOCUMENTED ON THE FDEP AND/OR NWFWMD STANDARD INSPECTION FORM 62-330.311(1).
3. THE INSPECTION MUST BE SIGNED, SEALED, AND DATED BY THE REGISTERED PROFESSIONAL AND RECORDS MUST BE MADE AVAILABLE UPON REQUEST OF FDEP AND/OR NWFWMD.
4. THE INSPECTION MUST BE CONDUCTED USING THE PLANS, CALCULATIONS AND SPECIFICATIONS APPROVED BY THE FDEP AND/OR NWFWMD.

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KEY MAP
N.T.S.

0' 15' 30' 60'
SCALE: 1" = 30'

DIRECTION OF PROPOSED SURFACE FLOW

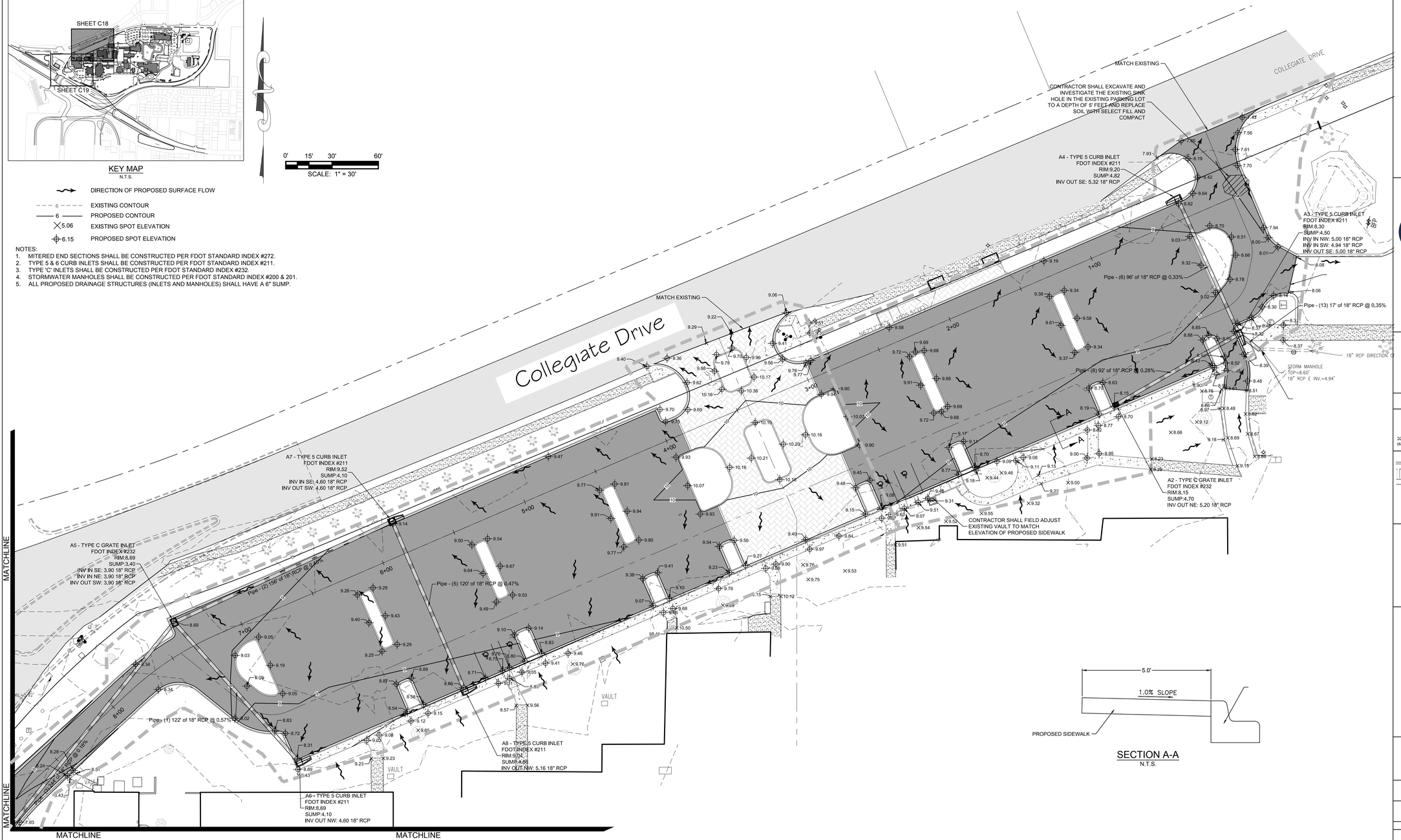
6 EXISTING CONTOUR

6 PROPOSED CONTOUR

5.06 EXISTING SPOT ELEVATION

6.15 PROPOSED SPOT ELEVATION

NOTES:
1. MITERED END SECTIONS SHALL BE CONSTRUCTED PER FDOT STANDARD INDEX #272.
2. TYPE 5 & 6 CURB INLETS SHALL BE CONSTRUCTED PER FDOT STANDARD INDEX #211.
3. TYPE 'C' INLETS SHALL BE CONSTRUCTED PER FDOT STANDARD INDEX #232.
4. STORMWATER MANHOLES SHALL BE CONSTRUCTED PER FDOT STANDARD INDEX #200 & 201.
5. ALL PROPOSED DRAINAGE STRUCTURES (INLETS AND MANHOLES) SHALL HAVE A 6" SUMP.







SECTION A-A
N.T.S.

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DIRECTION OF PROPOSED SURFACE FLOW

EXISTING CONTOUR

PROPOSED CONTOUR

5.06 EXISTING SPOT ELEVATION

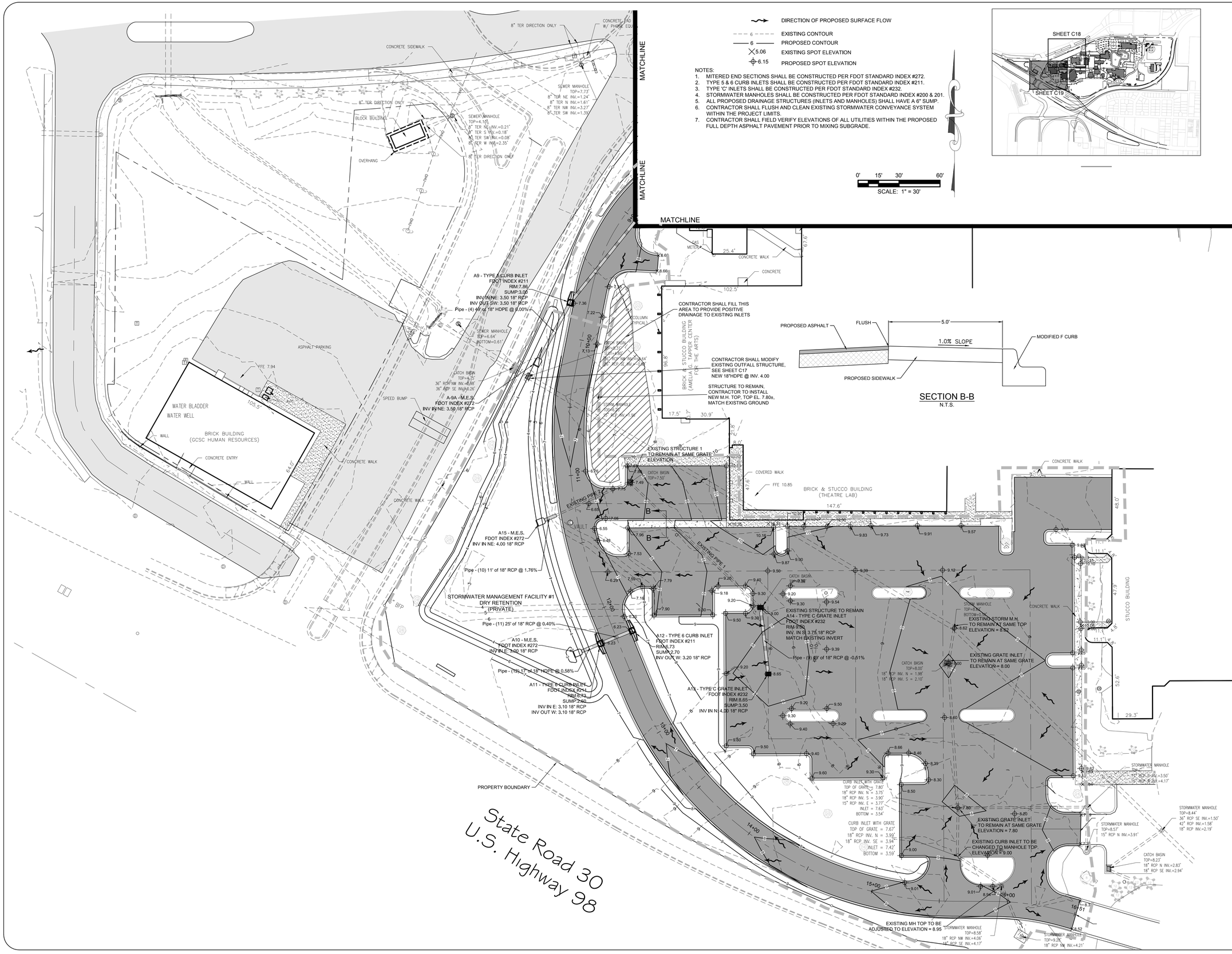
6.15 PROPOSED SPOT ELEVATION

NOTES:

1. MITERED END SECTIONS SHALL BE CONSTRUCTED PER FDOT STANDARD INDEX #272.
2. TYPE 5 & 6 CURB INLETS SHALL BE CONSTRUCTED PER FDOT STANDARD INDEX #211.
3. TYPE 'C' INLETS SHALL BE CONSTRUCTED PER FDOT STANDARD INDEX #232.
4. STORMWATER MANHOLES SHALL BE CONSTRUCTED PER FDOT STANDARD INDEX #200 & 201.
5. ALL PROPOSED DRAINAGE STRUCTURES (INLETS AND MANHOLES) SHALL HAVE A 6" SUMP.
6. CONTRACTOR SHALL FLUSH AND CLEAN EXISTING STORMWATER CONVEYANCE SYSTEM WITHIN THE PROJECT LIMITS.
7. CONTRACTOR SHALL FIELD VERIFY ELEVATIONS OF ALL UTILITIES WITHIN THE PROPOSED FULL DEPTH ASPHALT PAVEMENT PRIOR TO MIXING SUBGRADE.

0' 15' 30' 60'

SCALE: 1" = 30'







SECTION B-B

N.T.S.




FLA

FLORIDA ARCHITECTS

LICENSE #AA0002730

GULF COAST STATE COLLEGE

SINCE 1957

Dewberry PREBLE-RISH

203 ABERDEEN PKWY, PANAMA CITY, FL 32405

(850) 522-0644

LAWNSCAPES, INC.

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January 19, 2018 (09:02:42 EST)
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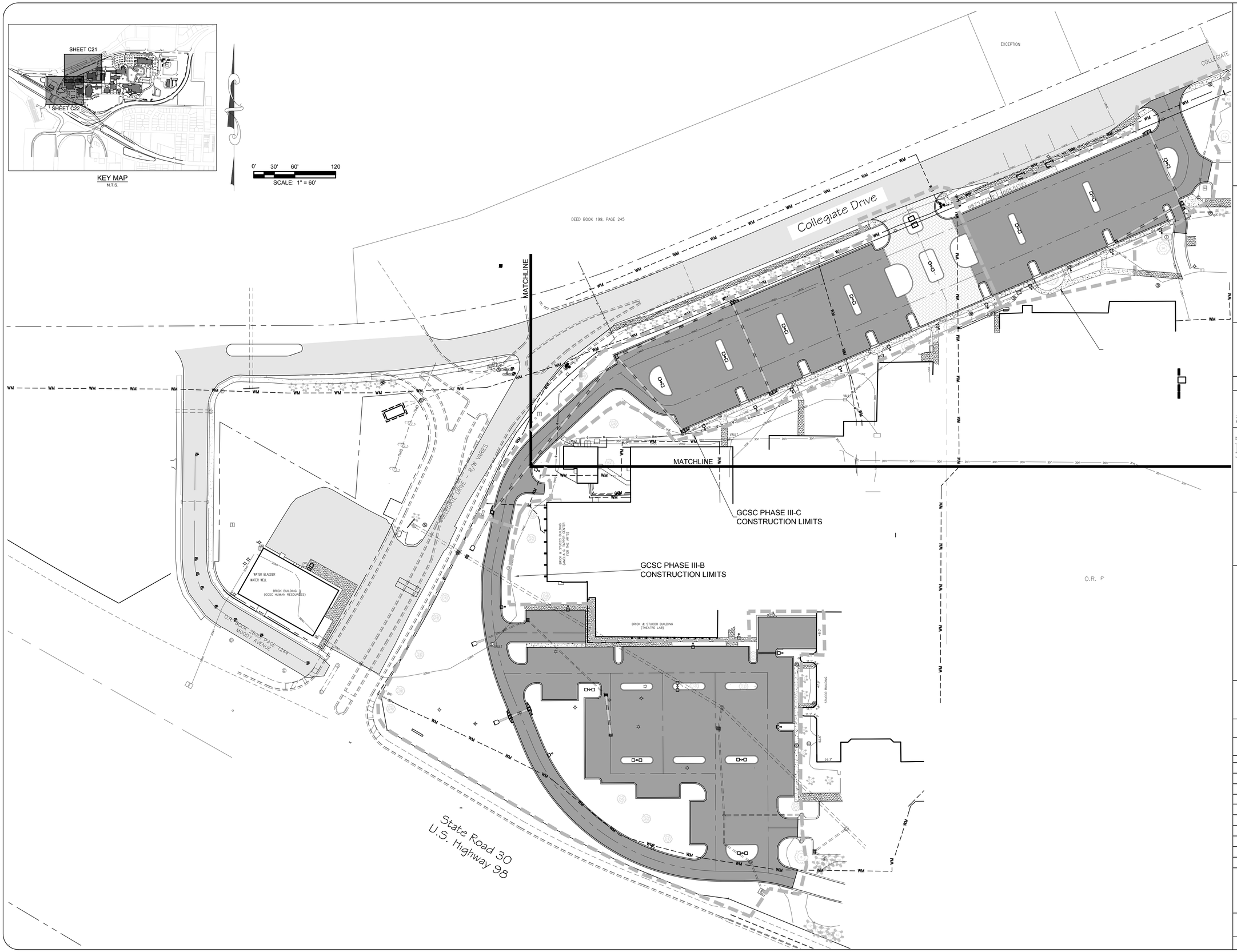


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LICENSE #AA0002730

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SINCE 1957

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PREBLE-RISH
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January 29, 2018 (11:45:13 EST)
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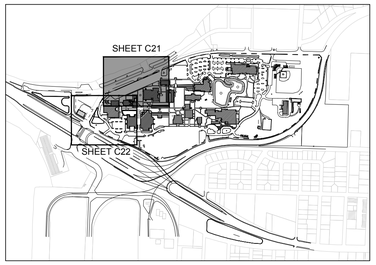



KEY MAP
N.T.S.

0' 15' 30' 60'
SCALE: 1" = 30'

NOTE:
POTABLE WATER MAINS SHALL BE PVC C900 DR18 AND COLOR BLUE.

Collegiate Drive

RELOCATE EXISTING BACKFLOW PREVENTOR AND RECONNECT WATER MAIN (2) 6" SLEEVES

6" BACK FLOW PREVENTER

GLASS BUS STOP

GLASS BUS STOP

BENCH

SEWER MANHOLE
TOP=7.30'
10" TER NE&SW INV.=0.34'

10" TER DIRECTION ONLY

ELECTRIC TRANSFORMER

ELECTRIC MANHOLE

18" RCP DIRECTION O

STORM MANHOLE
TOP=8.60'
18" RCP E INV.=4.94'

CAUTION WATER

CAUTION WATER

CONCRETE WALK

CAUTION WATER

CAUTION COMMUNICATION

CAUTION COMMUNICATION

INSTALL 6" MJ DI TEE IN BETWEEN THE 2 TEE'S ON EXISTING LINE

FO VAULT WITH (2) 4" CONDUITS ON TOP

CAUTION SEWER

SEWER MANHOLE
TOP=9.23'
8" PVC NE INV.=2.62'
8" PVC SW INV.=2.62'
RAISE SEWER MH TOP TO PROPOSED GRADE
TOP EL. 9.50±

SEWER MANHOLE
TOP=9.37'
8" PVC NE INV.=2.94'
8" PVC S INV.=2.94'
RAISE SEWER MH TOP TO PROPOSED GRADE
TOP EL. 9.84±

RELOCATED 6" BACKFLOW PREVENTOR

CONSTRUCT 60 LF 6" PVC WATER MAIN

CONSTRUCT 60 LF 6" PVC WATER MAIN

INSTALL (2) 6" MJ DI TEE's ON EXISTING 6" WATER MAIN AND CONNECT TO EXISTING WATER MAIN
6" SLEEVE
(2) 6" MJ DI TEE

CAUTION ELECTRIC

CAUTION ELECTRIC

FIBER OPTIC VAULT

F.O. MANHOLE

VAULT

VAULT

CAUTION GAS

VAULT

ELECTRIC TRANSFORMER

12.9'

29.1'

BRICK & STUCCO BUILDING

CONCRETE

CAUTION ELECTRIC

CAUTION GAS

CAUTION GAS

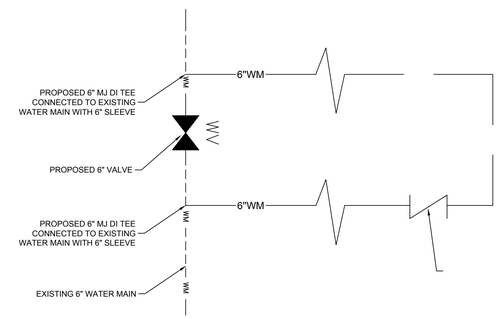
MATCHLINE

MATCHLINE

MATCHLINE

MATCHLINE

NOTE:
CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND DEPTHS OF UTILITIES BEHIND SIDEWALK PRIOR TO CONSTRUCTION. COLLEGE UTILITY MAPS SHOW STEAM AND CHILLED WATER LINES RUNNING BEHIND SIDEWALK.




BACKFLOW PREVENTOR DETAIL
N.T.S.

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SINCE 1957

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PREBLE-RISH
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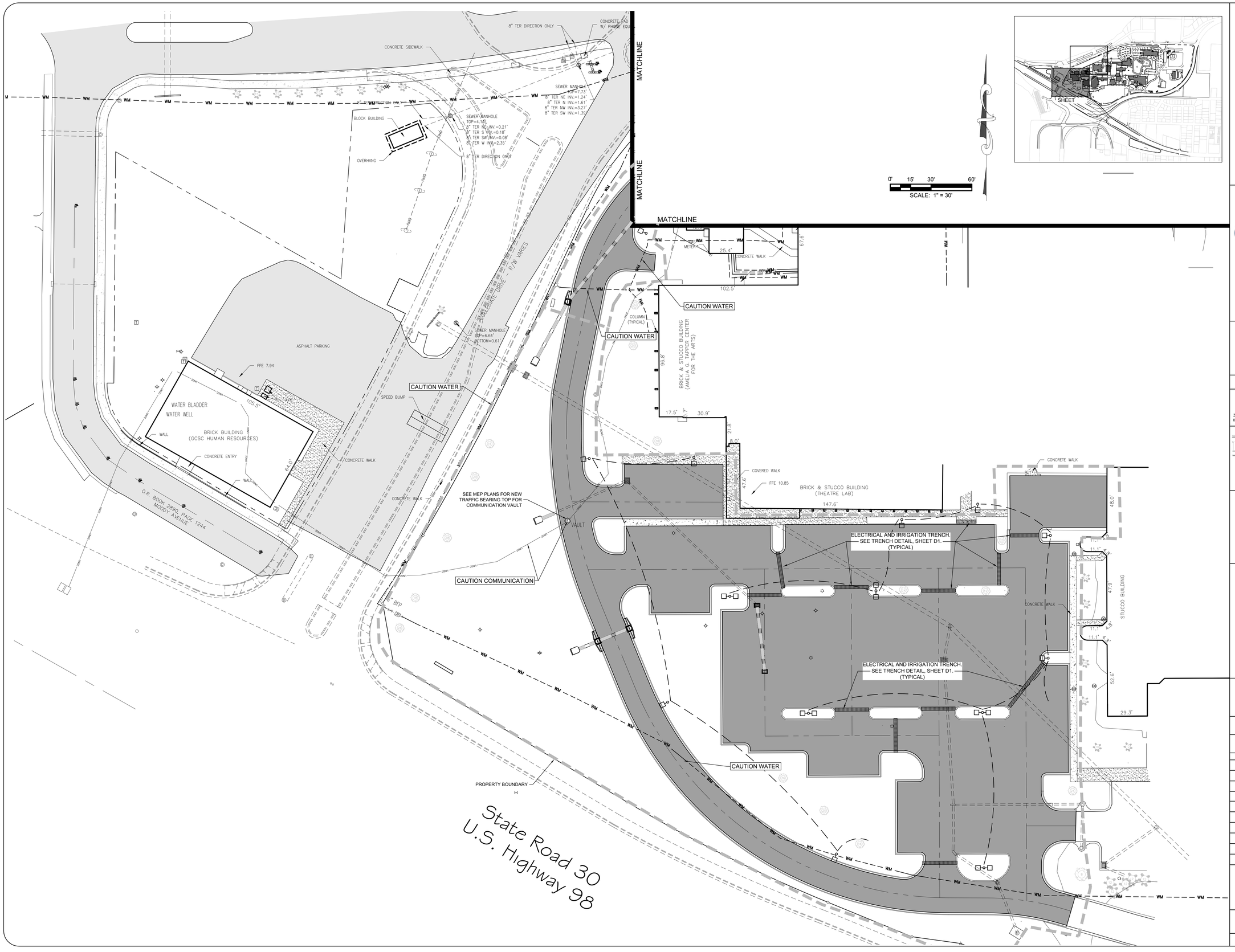


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January 26, 2018 (11:45:13 EST)
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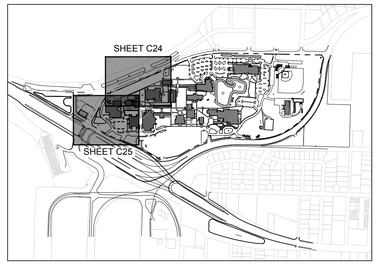


KEY MAP
N.T.S.

0' 25' 50' 100'
SCALE: 1" = 50'

NOTE:
ALL STRIPING SHALL BE THERMOPLASTIC

Collegiate Drive

MATCHLINE

MATCHLINE

GCSC PHASE III-C
CONSTRUCTION LIMITS

GCSC PHASE III-B
CONSTRUCTION LIMITS

State Road 30
U.S. Highway 98

WATER BLADDER
WATER WELL

BRICK BUILDING
(GCSC HUMAN RESOURCES)

BRICK & STUCCO BUILDING
(AMULA & TAPER CENTER
VPK, PE, ART)

BRICK & STUCCO BUILDING
(THEATRE LAB)

STUCCO BUILDING

Pipe: (3) 244' of 18" RCP @ 0.16%

Pipe: (1) 18' of 18" RCP @ 0.44%

Pipe: (1) 18' of 18" RCP @ 0.44%

Pipe: (1) 18' of 18" RCP @ 0.44%

Pipe: (1) 18' of 18" Steel

2+00
3+00
4+00
5+00
6+00
7+00
8+00
10+00
11+00
12+00
13+00
14+00
15+00
16+00
16+51

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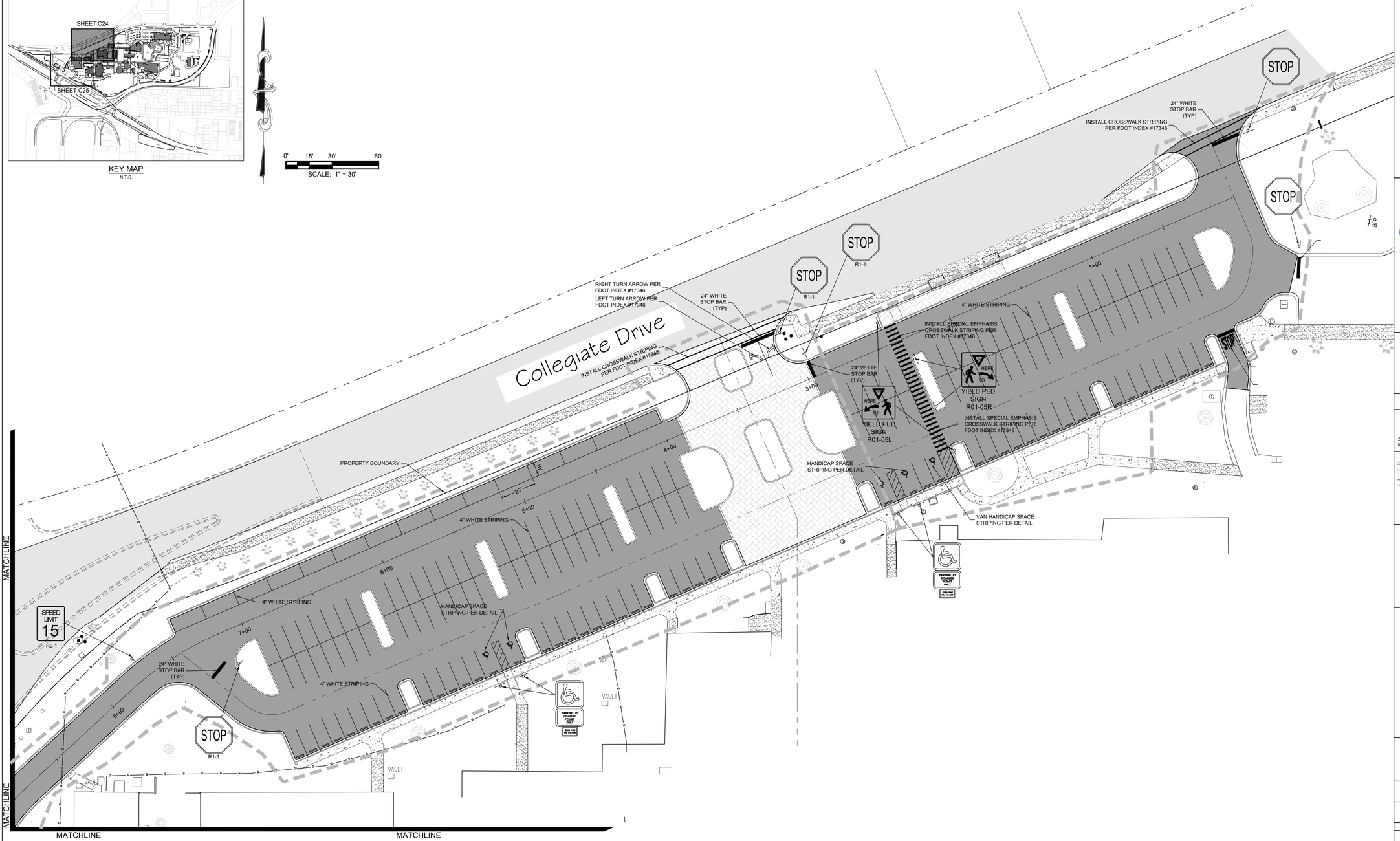
K:\50050785 GCSC PARKING IMPR PH III_CIVIL\3DFOLDER_PRODUCTION\50050785_SIGNAGE.DWG MMOORE

KEY MAP
N.T.S.

0' 15' 30' 60'
SCALE: 1" = 30'

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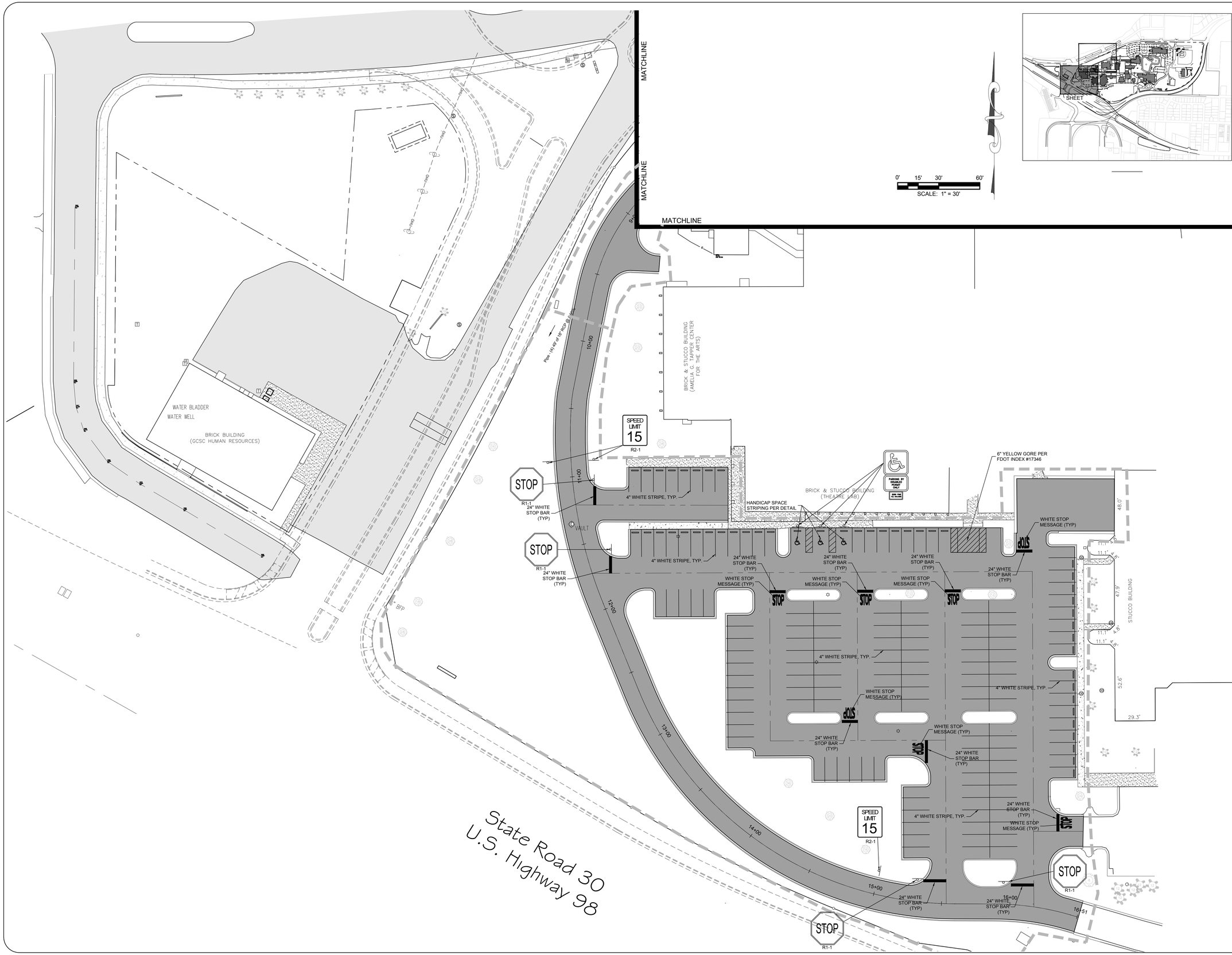


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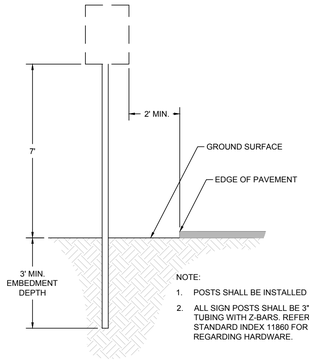
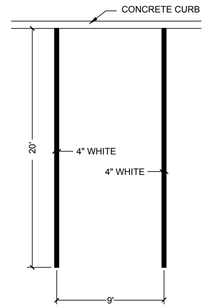



NOTE:

1. POSTS SHALL BE INSTALLED PLUMB.
2. ALL SIGN POSTS SHALL BE 3"Ø ALUMINUM TUBING WITH Z-BARS. REFER TO FDOT STANDARD INDEX 11860 FOR DETAILS REGARDING HARDWARE.

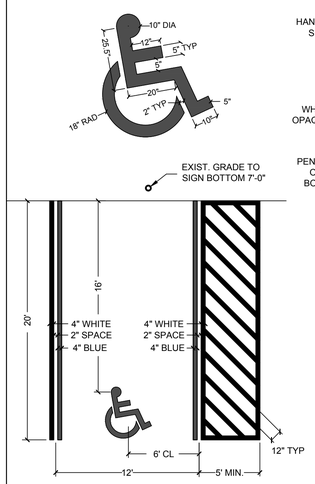
## DETAIL SIGNS (TYPICAL)

SCALE: N.T.S.

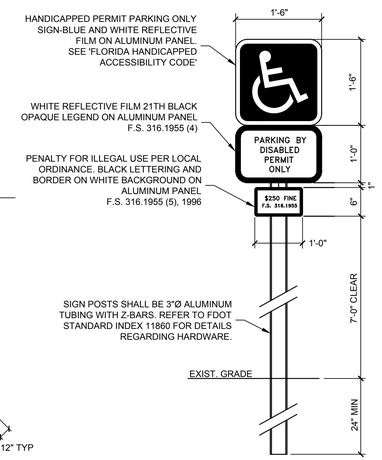



## DETAIL TYPICAL PARKING SPACE STRIPING

SCALE: N.T.S.




## HANDICAP PARKING STRIPING



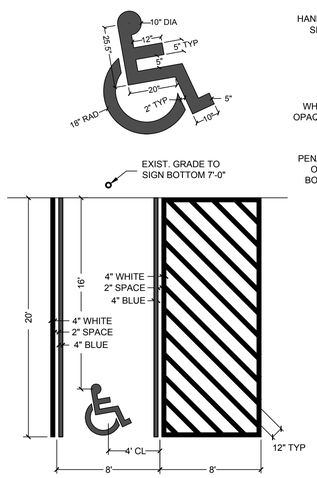

## HANDICAP PARKING SIGN

NOTES:

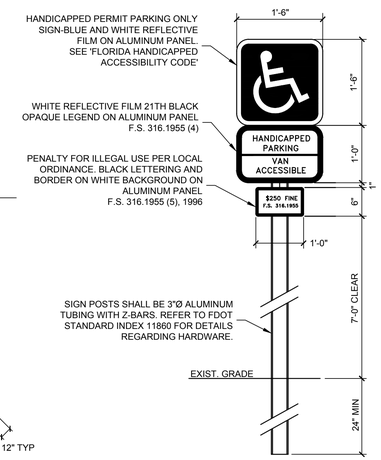
1. * COLOR CONTRAST
   CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND - EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.
2. EACH PARKING SPACE SHALL BE CONSPICUOUSLY OUTLINED IN BLUE PAINT, AND SHALL BE POSTED AND MAINTAINED WITH A PERMANENT, ABOVE-GRADE SIGN BEARING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY OR THE CAPTION "PARKING BY DISABLED PERMIT ONLY," OR BEARING BOTH SUCH SYMBOL AND CAPTION. SUCH SIGNS SHALL NOT BE OBSCURED BY A VEHICLE PARKED IN THE SPACE. ALL HANDICAPPED PARKING SPACES MUST BE SIGNED AND MARKED IN ACCORDANCE WITH THE STANDARDS ADOPTED BY THE DEPARTMENT OF TRANSPORTATION.

## DETAIL HANDICAP PARKING DETAILS

SCALE: N.T.S.




## VAN ACCESSIBLE HANDICAP PARKING STRIPING




## HANDICAP PARKING SIGN

NOTES:

1. * COLOR CONTRAST
   CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND - EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.
2. EACH PARKING SPACE SHALL BE CONSPICUOUSLY OUTLINED IN BLUE PAINT, AND SHALL BE POSTED AND MAINTAINED WITH A PERMANENT, ABOVE-GRADE SIGN BEARING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY OR THE CAPTION "PARKING BY DISABLED PERMIT ONLY," OR BEARING BOTH SUCH SYMBOL AND CAPTION. SUCH SIGNS SHALL NOT BE OBSCURED BY A VEHICLE PARKED IN THE SPACE. ALL HANDICAPPED PARKING SPACES MUST BE SIGNED AND MARKED IN ACCORDANCE WITH THE STANDARDS ADOPTED BY THE DEPARTMENT OF TRANSPORTATION.

## DETAIL VAN ACCESSIBLE HANDICAP PARKING DETAILS

SCALE: N.T.S.

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SINCE 1957

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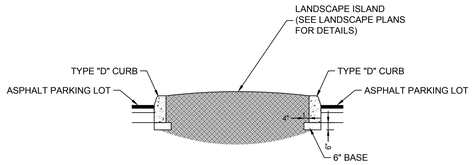
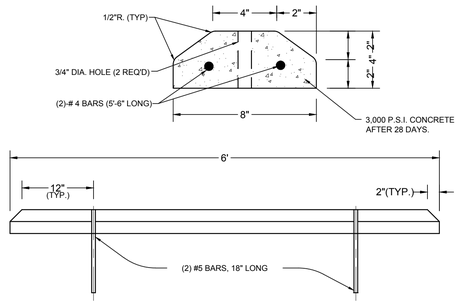


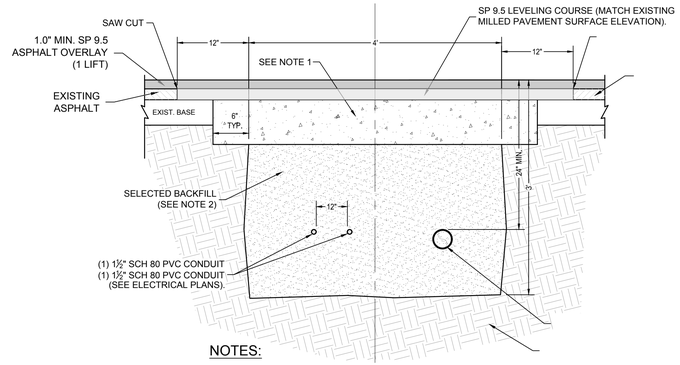

## TYPICAL SECTION LANDSCAPE ISLAND

SCALE: N.T.S.




## DETAIL TYPICAL PRECAST CONCRETE WHEEL STOP

SCALE: N.T.S.

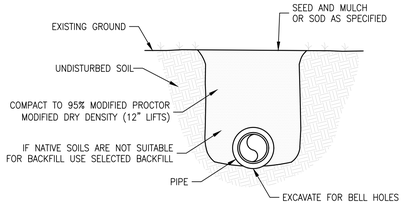



NOTES:

1. BASE SHALL BE 8" MINIMUM THICKNESS LIMEROCK (LBR 100) OR EQUIVALENT CRUSHED CONCRETE (LBR 150).
2. BACKFILL AASHTO M-145 SHALL BE PLACED IN LAYERS NOT TO EXCEED 6 INCHES, EACH LAYER SHALL BE THOROUGHLY TAMPED AND/OR ROLLED TO 98% AASHTO T-180 DENSITY.

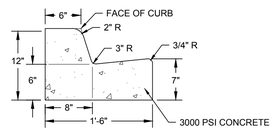
## DETAIL IRRIGATION / ELECTRICAL TRENCH REMOVAL AND REPLACEMENT OF ASPHALT PAVING

SCALE: N.T.S.



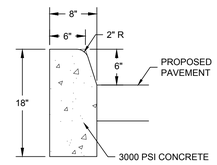

## DETAIL STANDARD BEDDING

SCALE: N.T.S.



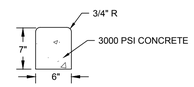

## DETAIL MODIFIED TYPE "F" CURB

SCALE: N.T.S.



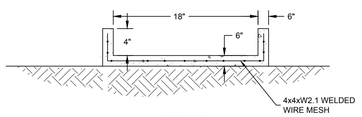

## DETAIL TYPE "D" CURB

SCALE: N.T.S.

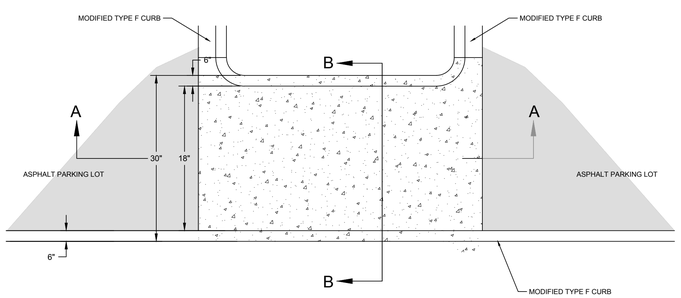



## DETAIL CONCRETE RIBBON CURB

SCALE: N.T.S.



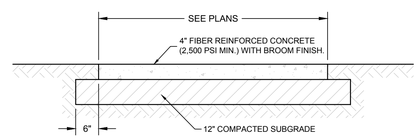

VIEW B



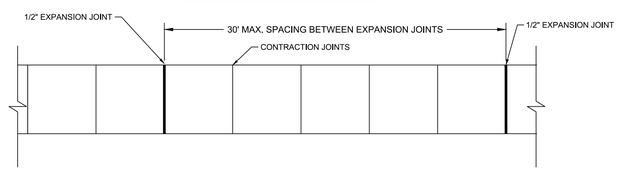

PLAN VIEW

## DETAIL CONCRETE FLUME

SCALE: N.T.S.




SIDEWALK CROSS SECTION

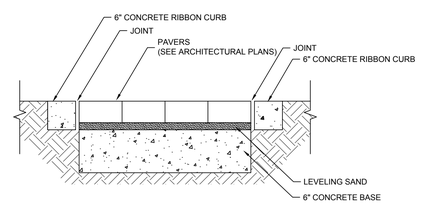



NOTE:

1. ALL SIDEWALKS SHALL BE 4" THICK WITH BROOM FINISH.
2. FOR WALKS 8' AND NARROWER, SPACE TRANSVERSE CONTRACTION JOINTS AT INTERVAL EQUAL TO WIDTH OF WALK OR AS NOTED.
3. CONTRACTION JOINTS TO BE 1" DEEP SCORED. SAW-CUT, OR FORMED WITH INSERT AT CONTRACTORS OPTION UNLESS NOTED OTHERWISE. SCORED JOINTS TO USE AN APPROVED TOOL. INSERTS TO BE GREENSTREAK ZIPCAP #855 OR EQUAL. SCORED JOINTS TO BE EDGED WITH 1/8" RADIUS.
4. EXPANSION JOINT REQUIRED WHERE SHOWN. EXPANSION JOINT TO CONSIST OF 1/2" FIBER BOARD AND GREENSTREAK CAP SEAL #624 OR EQUAL.
5. ALL SIDEWALKS SHALL HAVE A MINIMUM 2% CROSS SLOPE.

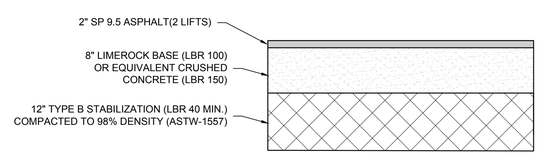
## DETAIL SIDEWALK

SCALE: N.T.S.



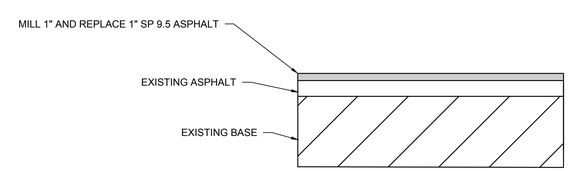

## DETAIL VEHICULAR TRAFFIC PAVER

SCALE: N.T.S.




## TYPICAL SECTION FULL DEPTH ASPHALT PAVING

SCALE: N.T.S.




## TYPICAL SECTION

SCALE: N.T.S.

FLA
FLORIDA ARCHITECTS
LICENSE #AA0002730

GULF COAST STATE COLLEGE
SINCE 1957

Dewberry PREBLE-RISH
203 ABERDEEN PKWY, PANAMA CITY, FL 32405
(850) 522-0644

LAWNSCAPES, INC.

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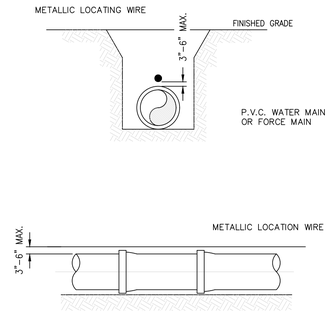
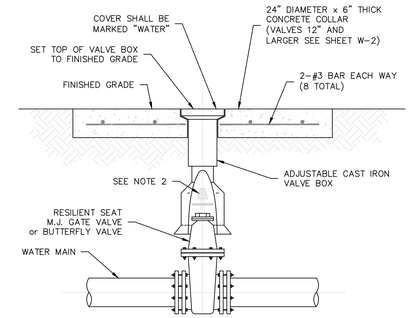
January 26, 2018 (11:54:11 EST)
K:\50090785 GCSC PARKING IMPR PH III_CIVIL\3DFOLDER_PRODUCTION\50090785_SWPPP.DWG RDODD




NOTES:
1. PVC PIPE SHALL REQUIRE INSULATED METALLIC LOCATING WIRE (10 GAUGE COPPER) CAPABLE OF DETECTION BY A CABLE LOCATOR AND SHALL BE BURIED DIRECTLY ABOVE THE CENTERLINE OF THE PIPE.
2. LOCATING WIRE SHALL TERMINATE AT THE TOP OF EACH VALVE BOX AND BE CAPABLE OF EXTENDING 24" ABOVE TOP OF BOX IN SUCH A MANNER SO AS NOT TO INTERFERE WITH VALVE OPERATION.
3. ALL SPLICES SHALL BE MADE USING A WATER-TIGHT SEALING METHOD APPROVED BY THE CITY.

| | | | |
|---|---|---|---|
| CITY OF PANAMA CITY ENGINEERING DEPARTMENT | PVC PIPE LOCATING WIRE DETAIL | | M-7 |




NOTES:
1. PVC EXTENSIONS SHALL NOT BE USED ON VALVE BOX INSTALLATION.
2. THE ACTUATING NUT FOR DEEPER VALVES SHALL BE EXTENDED TO COME UP TO 2 FOOT DEPTH BELOW FINISHED GRADE.
3. VALVES ARE TO BE MJ RESTRAINTS (MEGALUG OR EQUAL)

| | | | |
|---|---|---|---|
| CITY OF PANAMA CITY ENGINEERING DEPARTMENT | POTABLE WATER GATE VALVE & VALVE BOX | | W-1 |

FLA
FLORIDA ARCHITECTS
LICENSE #AA0002730

GULF COAST STATE COLLEGE
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PREBLE-RISH
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(850) 522-0644

LAWNSCAPES, INC.

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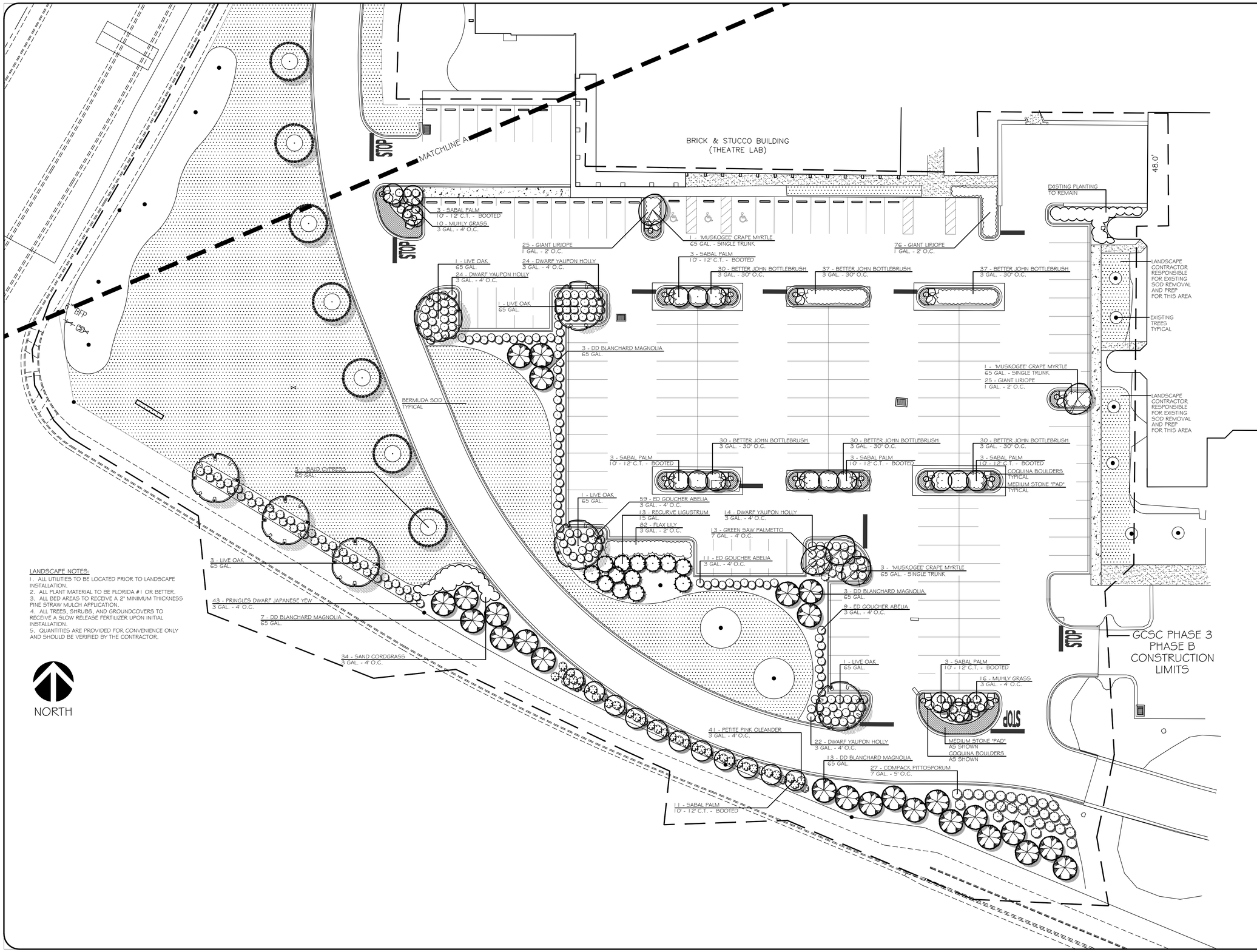
January 26, 2018 (11:54:11 EST)
K:\50090785 GCSC PARKING IMPR PH III_CIVIL3D\FOLDER_PRODUCTION\50090785_SWPPP.DWG IMMORE




LANDSCAPE NOTES:

1. ALL UTILITIES TO BE LOCATED PRIOR TO LANDSCAPE INSTALLATION.
2. ALL PLANT MATERIAL TO BE FLORIDA #1 OR BETTER.
3. ALL BED AREAS TO RECEIVE A 2" MINIMUM THICKNESS PINE STRAW MULCH APPLICATION.
4. ALL TREES, SHRUBS, AND GROUNDCOVERS TO RECEIVE A SLOW RELEASE FERTILIZER UPON INITIAL INSTALLATION.
5. QUANTITIES ARE PROVIDED FOR CONVENIENCE ONLY AND SHOULD BE VERIFIED BY THE CONTRACTOR.


FLA
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LICENSE #AA0002730
648 FLORIDA AVENUE
PANAMA CITY, FL 32401
850.257.5400


CLIENT:

GULF COAST STATE COLLEGE
SINCE 1957
5230 US-98
PANAMA CITY, FL 32401
850.169.1551

PROJECT:

GCSC PHASE 3
CAMPUS IMPROVEMENTS
ITB # 8 - 2016/2017

CONSULTANTS:


Dewberry | PREBLE-RISH
203 ABERDEEN PKWY, PANAMA CITY, FL 32405
(850) 522-0644

LAWNSCAPES, INC.
3209 HIGHWAY 231
PANAMA CITY, FL 32404
850.763.2975

BAGWELL ENGINEERING, INC.
216 E GOVERNMENT STREET
PENSACOLA, FL 32502
850.462.8040


REGISTERED LANDSCAPE ARCHITECT
STEVEN P. DOWELL
LICENSE NUMBER 666
STATE OF FLORIDA
01/18/18

CONSTRUCTION DOCUMENTS

| SCALE: | DATE: |
|---|---|
| 1" = 20' | 1/18/18 |
| DRAWN: J.J. | CHECKED: S.D. |

| NO. | REVISION | DATE |
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SHEET TITLE:

LANDSCAPE PLAN

| PROJECT NO. | SHEET |
|---|---|
| 4166-15 | L1 OF 6 |


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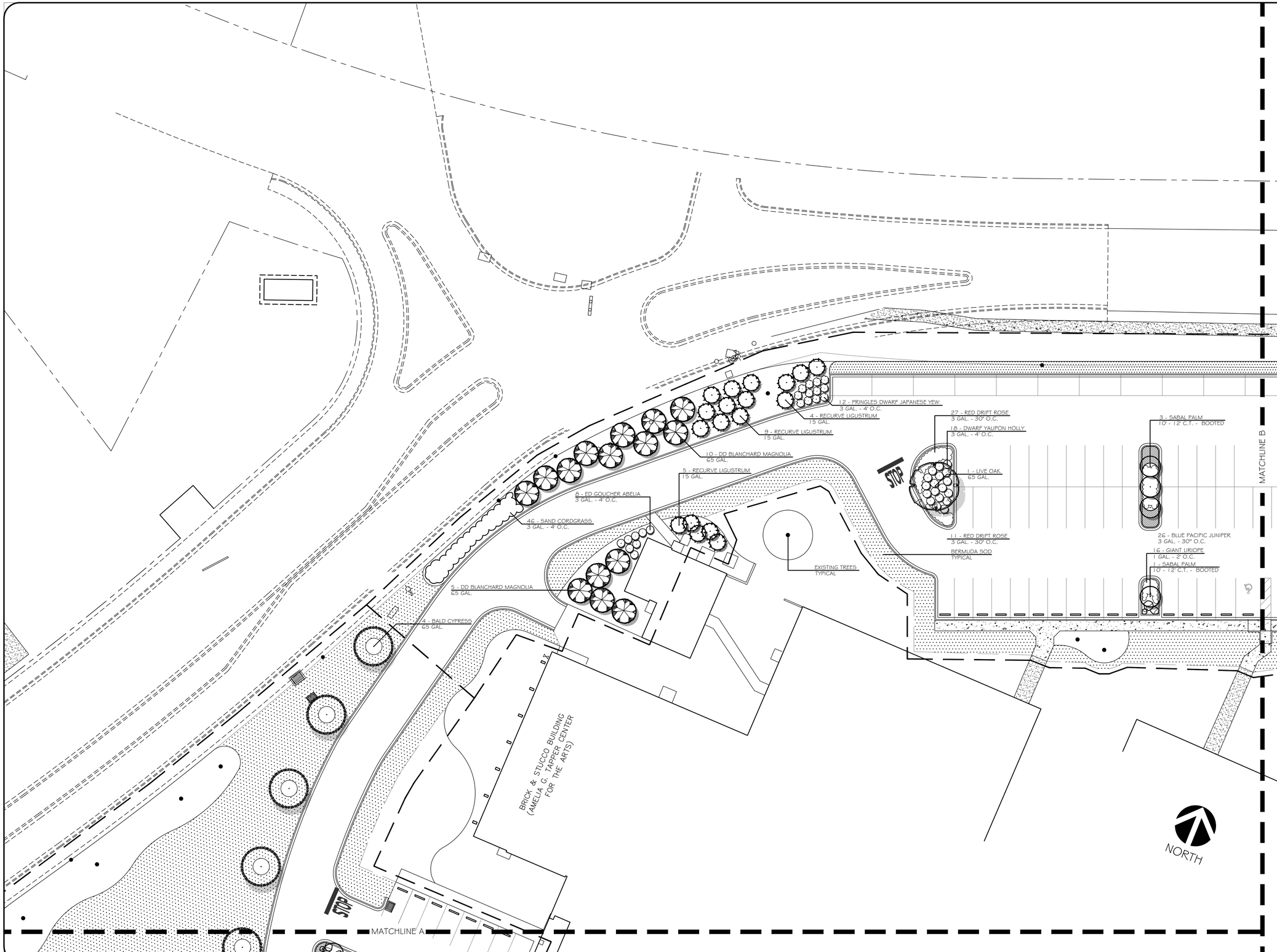


FLA
FLORIDA ARCHITECTS
LICENSE #AA0002730

648 FLORIDA AVENUE
PANAMA CITY, FL 32401
850.257.5400

CLIENT:

GULF COAST STATE COLLEGE
SINCE 1957

5230 US-98
PANAMA CITY, FL 32401
850.169.1551

PROJECT:

GCSC PHASE 3
CAMPUS IMPROVEMENTS

ITB # 8 - 2016/2017

CONSULTANTS:

Dewberry | PREBLE-RISH

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| 4166-15 | L2 OF 6 |

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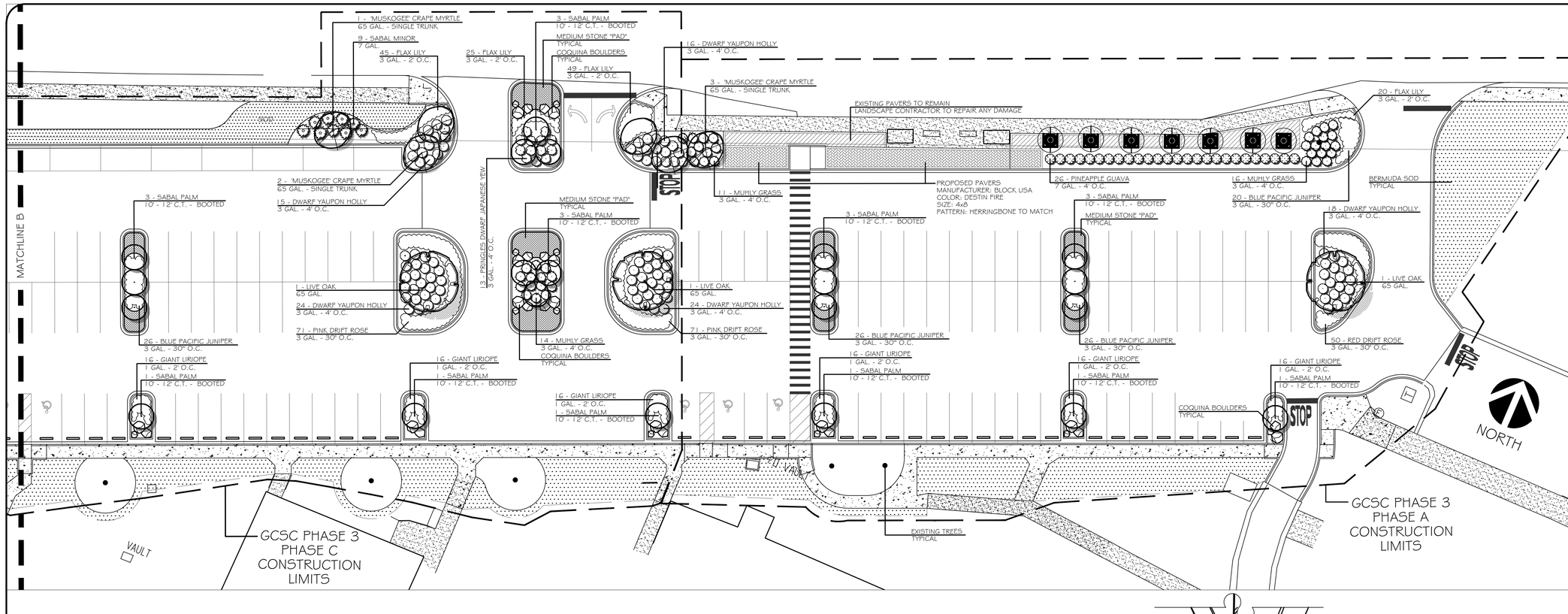
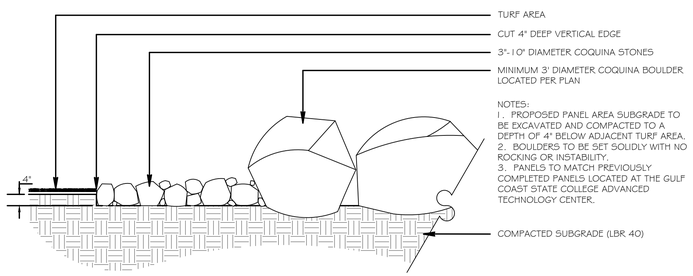
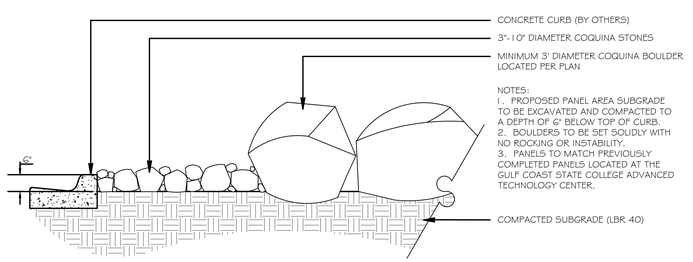


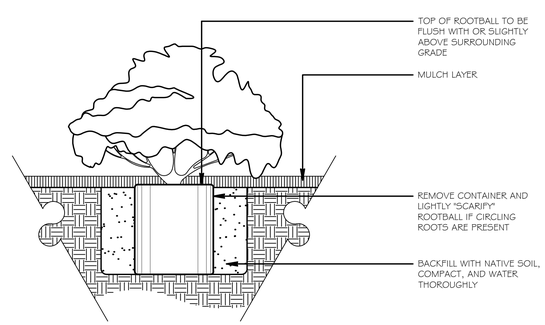




PANEL ABUTTING TURF AREA

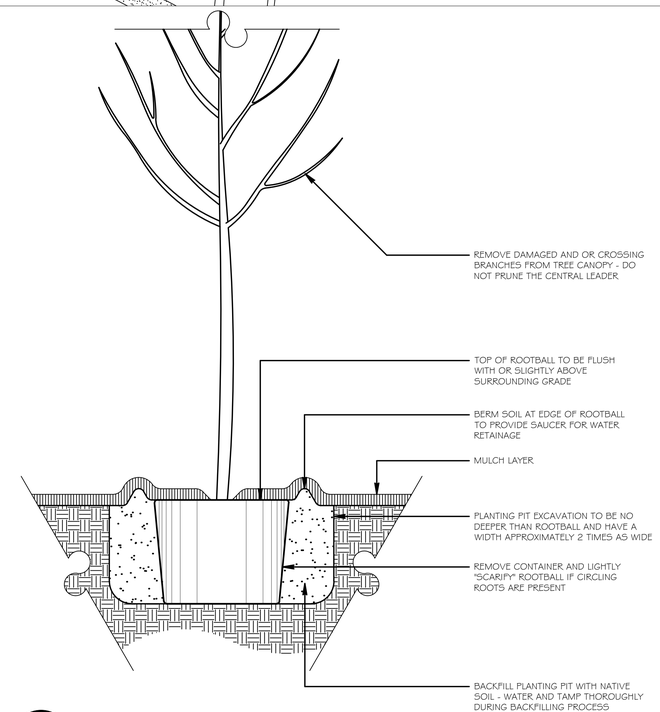



PANEL ABUTTING CURB

1 / L3 MEDIUM STONE PANEL DETAILS
NOT TO SCALE




2 / L3 CONTAINER SHRUB PLANTING
NOT TO SCALE




3 / L3 TREE PLANTING DETAIL
NOT TO SCALE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SINCE 1957
5230 US-98
PANAMA CITY, FL 32401
850.169.1551

PROJECT:

GCSC PHASE 3
CAMPUS IMPROVEMENTS
ITB # 8 - 2016/2017

CONSULTANTS:


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BAGWELL ENGINEERING, INC.
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PENSACOLA, FL 32502
850.462.8040


LANDSCAPE ARCHITECT
STEPHEN DALE
BAGWELL
LICENSE NO. 6666
STATE OF FLORIDA
01/18/18

CONSTRUCTION DOCUMENTS

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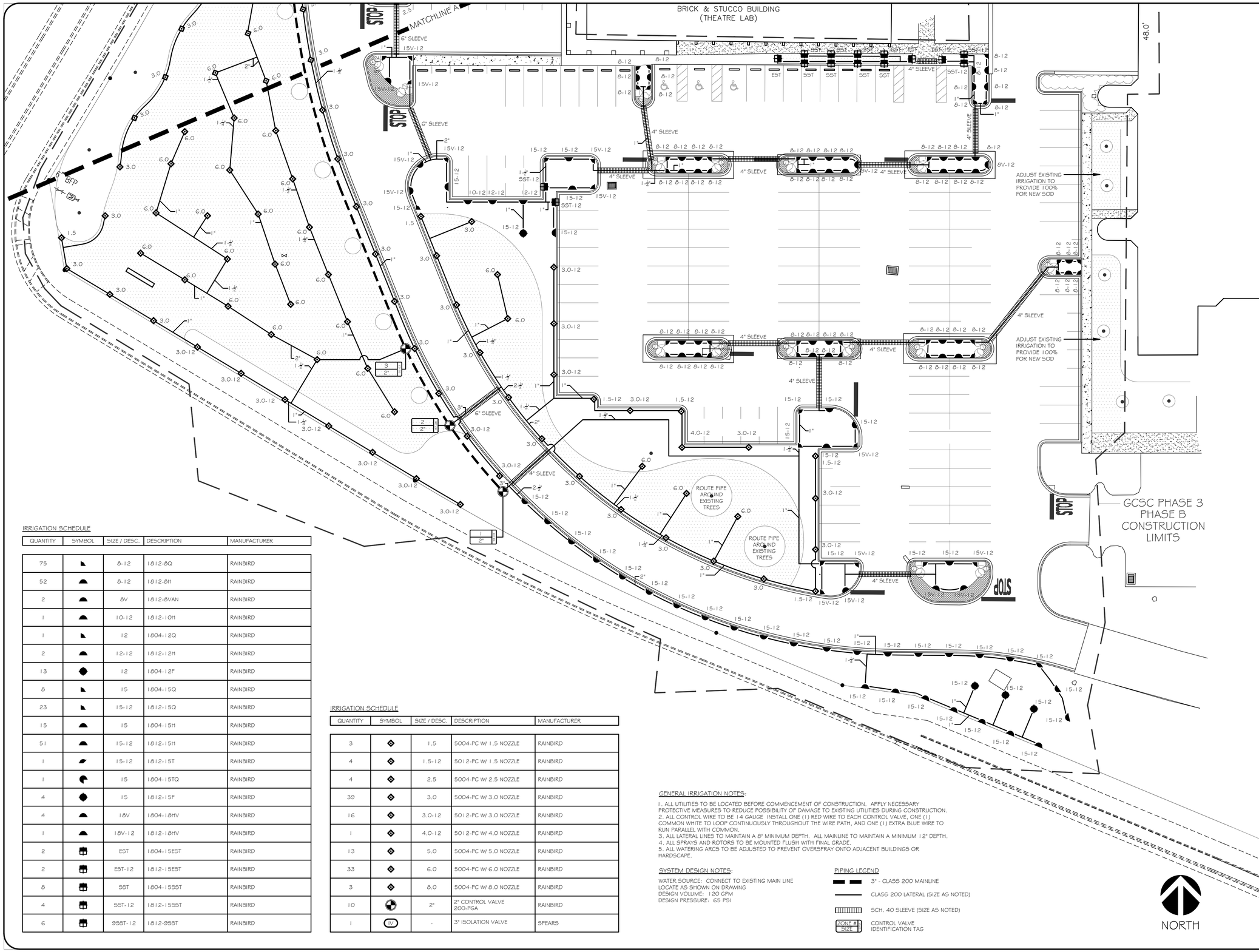
LANDSCAPE PLAN

| PROJECT NO. | SHEET |
|---|---|
| 4166-15 | L3 OF 6 |




IRRIGATION SCHEDULE

| QUANTITY | SYMBOL | SIZE / DESC. | DESCRIPTION | MANUFACTURER |
|---|---|---|---|---|
| 75 | | 8-12 | 1812-8Q | RAINBIRD |
| 52 | | 8-12 | 1812-8H | RAINBIRD |
| 2 | | 8V | 1812-8VAN | RAINBIRD |
| 1 | | 10-12 | 1812-10H | RAINBIRD |
| 1 | | 12 | 1804-12Q | RAINBIRD |
| 2 | | 12-12 | 1812-12H | RAINBIRD |
| 13 | | 12 | 1804-12F | RAINBIRD |
| 8 | | 15 | 1804-15Q | RAINBIRD |
| 23 | | 15-12 | 1812-15Q | RAINBIRD |
| 15 | | 15 | 1804-15H | RAINBIRD |
| 51 | | 15-12 | 1812-15H | RAINBIRD |
| 1 | | 15-12 | 1812-15T | RAINBIRD |
| 1 | | 15 | 1804-15TQ | RAINBIRD |
| 4 | | 15 | 1812-15F | RAINBIRD |
| 4 | | 18V | 1804-18HV | RAINBIRD |
| 1 | | 18V-12 | 1812-18HV | RAINBIRD |
| 2 | | E5T | 1804-15E5T | RAINBIRD |
| 2 | | E5T-12 | 1812-15E5T | RAINBIRD |
| 8 | | S5T | 1804-15S5T | RAINBIRD |
| 4 | | S5T-12 | 1812-15S5T | RAINBIRD |
| 6 | | 9S5T-12 | 1812-9S5T | RAINBIRD |

IRRIGATION SCHEDULE

| QUANTITY | SYMBOL | SIZE / DESC. | DESCRIPTION | MANUFACTURER |
|---|---|---|---|---|
| 3 | | 1.5 | 5004-PC W/ 1.5 NOZZLE | RAINBIRD |
| 4 | | 1.5-12 | 5012-PC W/ 1.5 NOZZLE | RAINBIRD |
| 4 | | 2.5 | 5004-PC W/ 2.5 NOZZLE | RAINBIRD |
| 39 | | 3.0 | 5004-PC W/ 3.0 NOZZLE | RAINBIRD |
| 16 | | 3.0-12 | 5012-PC W/ 3.0 NOZZLE | RAINBIRD |
| 1 | | 4.0-12 | 5012-PC W/ 4.0 NOZZLE | RAINBIRD |
| 13 | | 5.0 | 5004-PC W/ 5.0 NOZZLE | RAINBIRD |
| 33 | | 6.0 | 5004-PC W/ 6.0 NOZZLE | RAINBIRD |
| 3 | | 8.0 | 5004-PC W/ 8.0 NOZZLE | RAINBIRD |
| 10 | | 2" | 2" CONTROL VALVE 200-PGA | RAINBIRD |
| 1 | IV | - | 3" ISOLATION VALVE | SPEARS |

GENERAL IRRIGATION NOTES:

1. ALL UTILITIES TO BE LOCATED BEFORE COMMENCEMENT OF CONSTRUCTION. APPLY NECESSARY PROTECTIVE MEASURES TO REDUCE POSSIBILITY OF DAMAGE TO EXISTING UTILITIES DURING CONSTRUCTION.
2. ALL CONTROL WIRE TO BE 14 GAUGE INSTALL ONE (1) RED WIRE TO EACH CONTROL VALVE, ONE (1) COMMON WHITE TO LOOP CONTINUOUSLY THROUGHOUT THE WIRE PATH, AND ONE (1) EXTRA BLUE WIRE TO RUN PARALLEL WITH COMMON.
3. ALL LATERAL LINES TO MAINTAIN A 8" MINIMUM DEPTH. ALL MAINLINE TO MAINTAIN A MINIMUM 12" DEPTH.
4. ALL SPRAYS AND ROTORS TO BE MOUNTED FLUSH WITH FINAL GRADE.
5. ALL WATERING ARCS TO BE ADJUSTED TO PREVENT OVERSPRAY ONTO ADJACENT BUILDINGS OR HARDSCAPE.

SYSTEM DESIGN NOTES:

WATER SOURCE: CONNECT TO EXISTING MAIN LINE
LOCATE AS SHOWN ON DRAWING
DESIGN VOLUME: 120 GPM
DESIGN PRESSURE: 65 PSI

PIPING LEGEND

- 3" - CLASS 200 MAINLINE
- CLASS 200 LATERAL (SIZE AS NOTED)
- SCH. 40 SLEEVE (SIZE AS NOTED)
- ZONE # / SIZE — CONTROL VALVE IDENTIFICATION TAG


FLA
FLORIDA ARCHITECTS
LICENSE #AA0002730
648 FLORIDA AVENUE
PANAMA CITY, FL 32401
850.257.5400


CLIENT:

GULF COAST STATE COLLEGE
SINCE 1957
5230 US-98
PANAMA CITY, FL 32401
850.169.1551

PROJECT:

GCSC PHASE 3
CAMPUS IMPROVEMENTS
ITB # 8 - 2016/2017

CONSULTANTS:


Dewberry | PREBLE-RISH
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850.763.2975

BAGWELL ENGINEERING, INC.
216 E GOVERNMENT STREET
PENSACOLA, FL 32502
850.462.8040


01/18/18

CONSTRUCTION DOCUMENTS

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IRRIGATION PLAN

| PROJECT NO. | SHEET |
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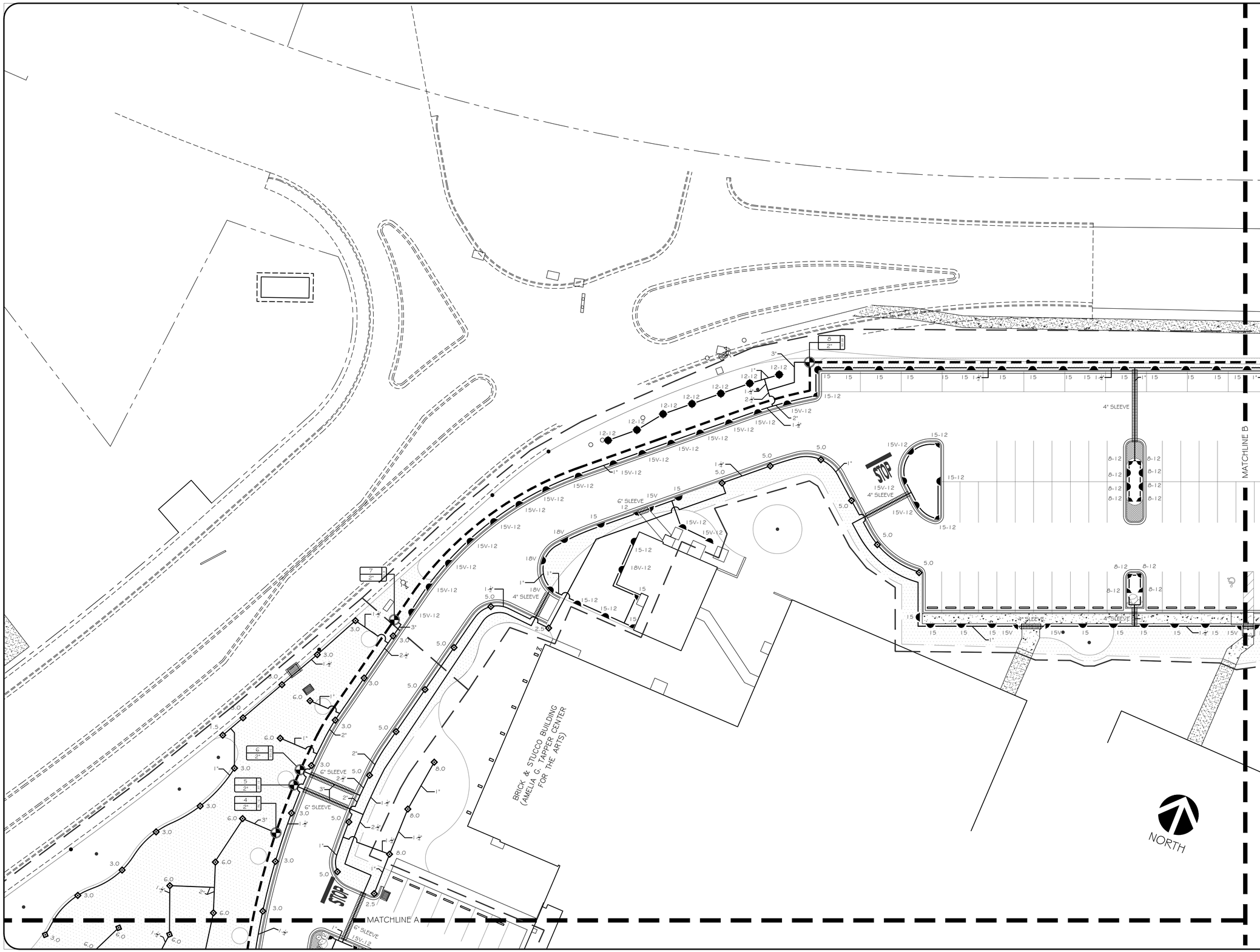
| 4166-15 | L4 OF 6 |

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850.257.5400

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GCSC PHASE 3
CAMPUS IMPROVEMENTS

ITB # 8 - 2016/2017

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BAGWELL ENGINEERING, INC.
216 E GOVERNMENT STREET
PENSACOLA, FL 32502
850.462.8040

01/18/18
LICENSED PROFESSIONAL ENGINEER
STATE OF FLORIDA

CONSTRUCTION DOCUMENTS

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| 4166-15 | L5 OF 6 |

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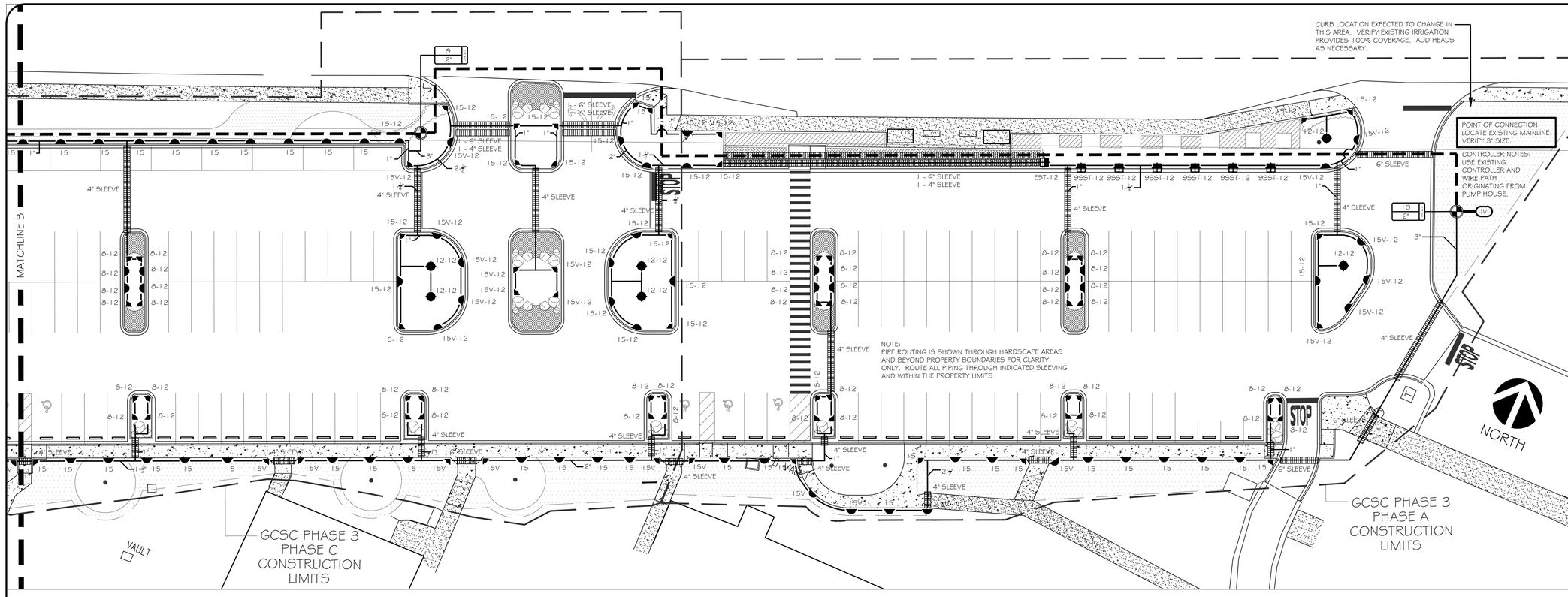
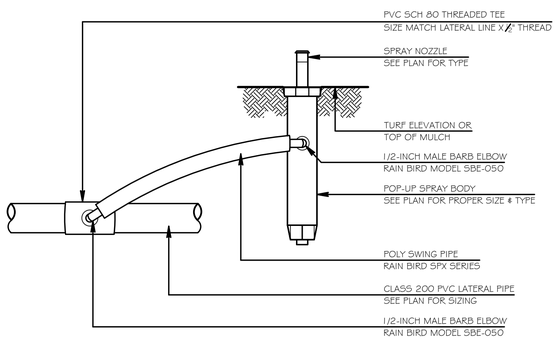
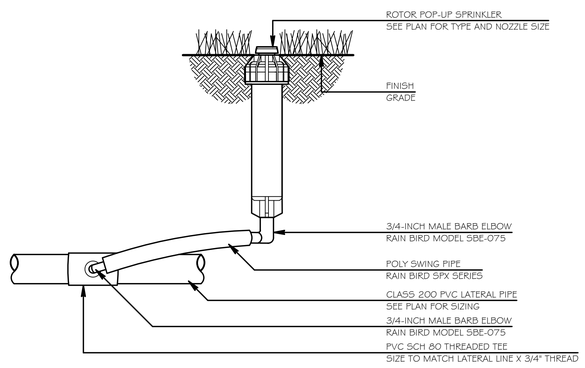



1 L6 SPRAYHEAD INSTALLATION
NOT TO SCALE




2 L6 POP-UP ROTOR INSTALLATION
NOT TO SCALE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LICENSE #AA0002730
648 FLORIDA AVENUE
PANAMA CITY, FL 32401
850.257.5400


CLIENT:
GULF COAST STATE COLLEGE
SINCE 1957
5230 US-98
PANAMA CITY, FL 32401
850.169.1551

PROJECT:
GCSC PHASE 3
CAMPUS IMPROVEMENTS
ITB # 8 - 2016/2017

CONSULTANTS:


Dewberry | PREBLE-RISH
203 ABERDEEN PKWY, PANAMA CITY, FL 32405
(850) 522-0644

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850.763.2975

BAGWELL ENGINEERING, INC.
216 E GOVERNMENT STREET
PENSACOLA, FL 32502
850.462.8040


LICENSED LANDSCAPE ARCHITECT
BENTLEY D. LEE
LA0001022
STATE OF FLORIDA
01/18/18

CONSTRUCTION DOCUMENTS

| SCALE: 1" = 20' | DATE: 1/18/18 |
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| DRAWN: J.J. | CHECKED: S.D. |

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# ELECTRICAL LEGEND

LIGHTING

NEW SINGLE LED FIXTURE (1 LED FIXTURE) WITH 30' POLE AND ROUND BASE; INSTALL A TWIST LOCK LIGHTING CONTROLLER IN A PHOTOCELL RECEPTACLE AT THE TOP OF THE FIXTURE. REFER TO REQUIREMENTS IN THE LIGHTING FIXTURE SCHEDULE. INSTALL CONTROLLER PER THE MANUFACTURERS RECOMMENDATIONS.

NEW DOUBLE LED FIXTURE (TWO LED FIXTURES) WITH 30' POLE AND ROUND BASE; INSTALL A TWIST LOCK LIGHTING CONTROLLER IN A PHOTOCELL RECEPTACLE AT THE TOP OF EACH FIXTURE. REFER TO REQUIREMENTS IN THE LIGHTING FIXTURE SCHEDULE. INSTALL CONTROLLER PER THE MANUFACTURERS RECOMMENDATIONS.

BRANCH CIRCUITING

RUN CONCEALED UNDER FLOOR OR IN GRADE

RUN CONCEALED ABOVE CEILING

LA-1 HOMERUN TO PANEL. LETTERS AND NUMERALS INDICATED PANEL AND CIRCUIT NUMBER.

PANELS AND POWER

ELECTRICAL PANELBOARD

NON-FUSIBLE DISCONNECT SWITCH; XX/YY/ZZ WHERE X INDICATES AMPERAGE, Y INDICATES # OF POLES, AND Z INDICATES NEMA RATING

MISCELLANEOUS

| | | | |
|---|---|---|---|
| A.F.F. | ABOVE FINISHED FLOOR | C/L | CENTERLINE |
| ATS | AUTOMATIC TRANSFER SWITCH | C | CONDUIT |
| WP | WEATHERPROOF | GND | GROUND |
| GFCI | GROUND FAULT CIRCUIT INTERRUPTER | MT | MOUNT |
| GCSC | GULF COAST STATE COLLEGE | | |

# ELECTRICAL GENERAL NOTES

1. ENTIRE ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST ACCEPTED EDITION OF THE NATIONAL ELECTRICAL CODE AND ALL LOCAL CODES.
2. ALL ELECTRICAL WORK AND MATERIALS USED IN THIS PROJECT SHALL BE NEW, UNDERWRITERS' LABORITORIES (UL) LISTED AND LABELED, AND SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS NOTED OTHERWISE.
3. WHERE CONFLICTS OCCUR ON ELECTRICAL DRAWINGS BETWEEN DRAWINGS, SPECIFICATIONS AND CODES, THE MOST STRINGENT REQUIREMENT THAT APPLIES SHALL BE ADHERED TO.
4. NEW POLE SHALL BE FURNISHED WITH A SURGE PROTECTION DEVICE INSTALLED IN THE HANDHOLE NEAR THE BASE OF THE POLE.
5. ALL WIRING SHALL BE COPPER AND INSTALLED IN CONDUIT.
6. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL WORK WITH THE CIVIL AND LANDSCAPE DRAWINGS. UTILIZE COMMON TRENCHES FOR INSTALLATION OF CONDUITS WHERE POSSIBLE. PRIOR TO INSTALLATION OF CONDUIT, THE ELECTRICAL CONTRACTOR WILL BE REQUIRED TO PLAN ALL CONDUIT ROUTING WITH THE OTHER CONTRACTORS PERFORMING SITE WORK. SUBMIT A RECORD OF THIS COORDINATION TO THE ARCHITECT PRIOR TO STARTING SITE WORK. IF ONE CONTRACTOR IS PERFORMING ALL CONDUIT SITE WORK, THEN A QUALIFIED ELECTRICIAN WILL BE REQUIRED TO BE ON SITE APPROVING THE CONDUIT INSTALLATION/ROUTING PRIOR TO COVERING THE CONDUITS.

**ALL CONDUIT UNDERGROUND WORK SHALL COMPLY WITH THE GENERAL CONDITIONS BELOW:**

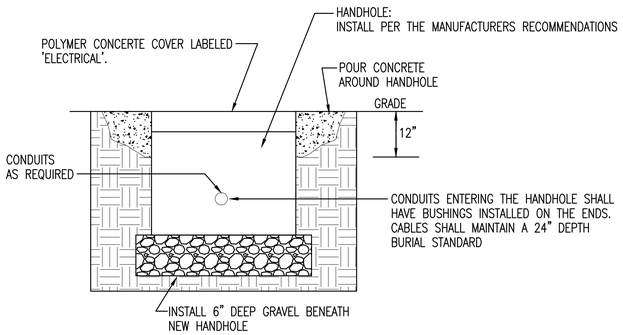
COMPOSITION – THE CONDUITS SHALL BE CORROSION RESISTANT AND SHALL BE MADE OF EPC-80-PVC (SCHEDULE 80) IAW NEMA TC-2. THE CONDUITS SHALL BE APPROPRIATELY LABELED INDICATING THE COMPOSITION MATERIAL. CONDUITS SHALL HAVE A SLEEVE OR BELL END TYPE COUPLING AND SHALL BE WATERTIGHT WHEN ASSEMBLED.
INSTALLATION – INSTALLATION OF UNDERGROUND CONDUITS SHALL BE A MINIMUM OF 24" BELOW GRADE. INSTALL IN COMMONS TRENCH WHERE SHOWN ON THE CIVIL PLANS. IN MAINTENANCE HOLES WITH KNOCKOUTS, CONDUITS SHALL START AT THE BOTTOM KNOCKOUT, ALLOWING FOR UPWARD EXPANSION IN THE MAINTENANCE HOLES. THE CONTRACTOR SHALL PROVIDE OTHER PROTECTIVE MEASURES, CONCRETE CAP, ETC., IN THOSE AREAS WHERE THE MINIMUM GROUND COVER CANNOT BE ACHIEVED.

**BENDS AND SEALING.**
THE SUM OF BENDS IN ALL DIRECTIONS SHALL NOT EXCEED A TOTAL OF 180 DEGREES. CONDUITS SHALL HAVE BELL ENDS AND ENTER A MAINTENANCE HOLES PERPENDICULAR TO THE SURFACE OF THE WALL THROUGH WHICH IT IS ENTERING. ALL CONDUITS ENTERING MAINTENANCE HOLES MUST BE SEALED. UNIVERSAL CONDUIT PLUGS OR REMOVABLE PUTTY SEALANTS MAY BE USED. UPON COMPLETION OF CONDUIT SECTIONS, A TEST MANDREL ¼" (6.4MM) SMALLER THAN THE INSIDE DIAMETER OF THE CONDUIT SHALL BE PULLED THROUGH TWO DIAGONALLY OPPOSITE CONDUITS TO ENSURE PROPER ALIGNMENT. IN ADDITION, ALL CONDUITS SHALL BE CLEARED OF LOOSE MATERIALS SUCH AS CONCRETE, MUD, DIRT, STONES, ETC.

**PULL ROPE**
ALL VACANT CONDUITS SHALL BE PROVIDED WITH A WATERPROOF CORROSION RESISTANT MULE TAPE FOR FUTURE CABLE INSTALLATION. THE PULL ROPE /MULE TAPE SHALL EXTEND INTO THE MAINTENANCE HOLE AND BE SECURED TO THE CABLE RACK OR PULLING IRON, ETC.

**SPACERS AND TRACER WIRE**
ALONG THE LENGTH OF THE CONDUIT RUN, IF THE CONDUITS ARE INSTALLED BY TRENCHING, SPACERS SHALL BE PLACED AT AN INTERVAL OF FOUR (4) SPACERS PER 20 FEET AND CABLE WARNING TAPE SHALL BE BURIED ONE (1) FOOT BELOW THE SURFACE AND SHALL FOLLOW THE DUCT ROUTE. THE TAPE SHALL BE A MINIMUM OF THREE INCHES WIDE AND ORANGE IN COLOR WITH THE APPROPRIATE WARNING MESSAGE. AT LEAST ONE CONDUIT SHALL HAVE TRACER WIRE OR BE OTHERWISE LOCATABLE FROM THE SURFACE.

**UTILITY SEPARATION**
COMMUNICATIONS CONDUITS AND CABLE SHALL MAINTAIN A MINIMUM SEPARATION OF 12 INCHES FROM ALL TRADES.




## ELECTRICAL MAINTENANCE/HANDHOLE DETAIL

NOT TO SCALE

## LIGHTING FIXTURE SCHEDULE

| MARK | MANUFACTURER AND CATALOG No. | LAMPS No. | LAMPS TYPE | MOUNTING | REMARKS |
|---|---|---|---|---|---|
| PL2 | GARDCO #ECF-1-2-215LA-641A-NW-UNV (FINISH) POLE: VALMONT #R290860106-D1 | | LED | POLE ARM MOUNT 33' ABOVE GRADE | SINGLE-PIECE DIE-CAST ALUMINUM HOUSING, POWDER COAT FINISH, 4000K, UNIVERSAL VOLTAGE, PROVIDE WITH WATTSTOPPER NWTL-111, ROUND TAPERED ALUMINUM POLE |
| PL3S | GARDCO ECF-1-3-75LA-4853-NW-UNV POLE: VALMONT 1108-30-40-4-T-E-D1-DDB | | LED | POLE ARM MOUNT 12' ABOVE GRADE | SINGLE-PIECE DIE-CAST ALUMINUM HOUSING, POWDER COAT FINISH, 4000K, UNIVERSAL VOLTAGE, ROUND TAPERED EMBEDDED DIRECT BURIED ALUMINUM POLE, PROVIDE WITH WATTSTOPPER NWTL-111 |
| PL4 | GARDCO #ECF-1-4-215LA-641A-NW-UNV (FINISH) POLE: VALMONT #R290860106-D1 | | LED | POLE ARM MOUNT 33' ABOVE GRADE | SINGLE-PIECE DIE-CAST ALUMINUM HOUSING, POWDER COAT FINISH, 4000K, UNIVERSAL VOLTAGE, PROVIDE WITH WATTSTOPPER NWTL-111, ROUND TAPERED ALUMINUM POLE |
| 2PL4 | GARDCO #ECF-2-4-215LA-641A-NW-UNV (FINISH) POLE: VALMONT #R290860106-D2 | | LED | POLE ARM MOUNT 33' ABOVE GRADE | SINGLE-PIECE DIE-CAST ALUMINUM HOUSING, POWDER COAT FINISH, 4000K, UNIVERSAL VOLTAGE, PROVIDE TWO FIXTURES MOUNTED AT 180°, PROVIDE WITH WATTSTOPPER NWTL-111, ROUND TAPERED ALUMINUM POLE. |

* ALL FINISHES AND FIXTURE COLOR TEMPERATURE SHALL BE DIRECTED BY ARCHITECT/OWNER PRIOR TO ORDERING FIXTURES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PROJECT:
GCSC PHASE 3
CAMPUS IMPROVEMENTS
ITB # 8 - 2016/2017

CONSULTANTS:


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|---|---|---|
| | | |

SHEET TITLE:
ELECTRICAL ELGEND, FIXTURE SCHEDULE AND GENERAL NOTES

| PROJECT NO. | SHEET |
|---|---|
| 4166-15 | E1 |


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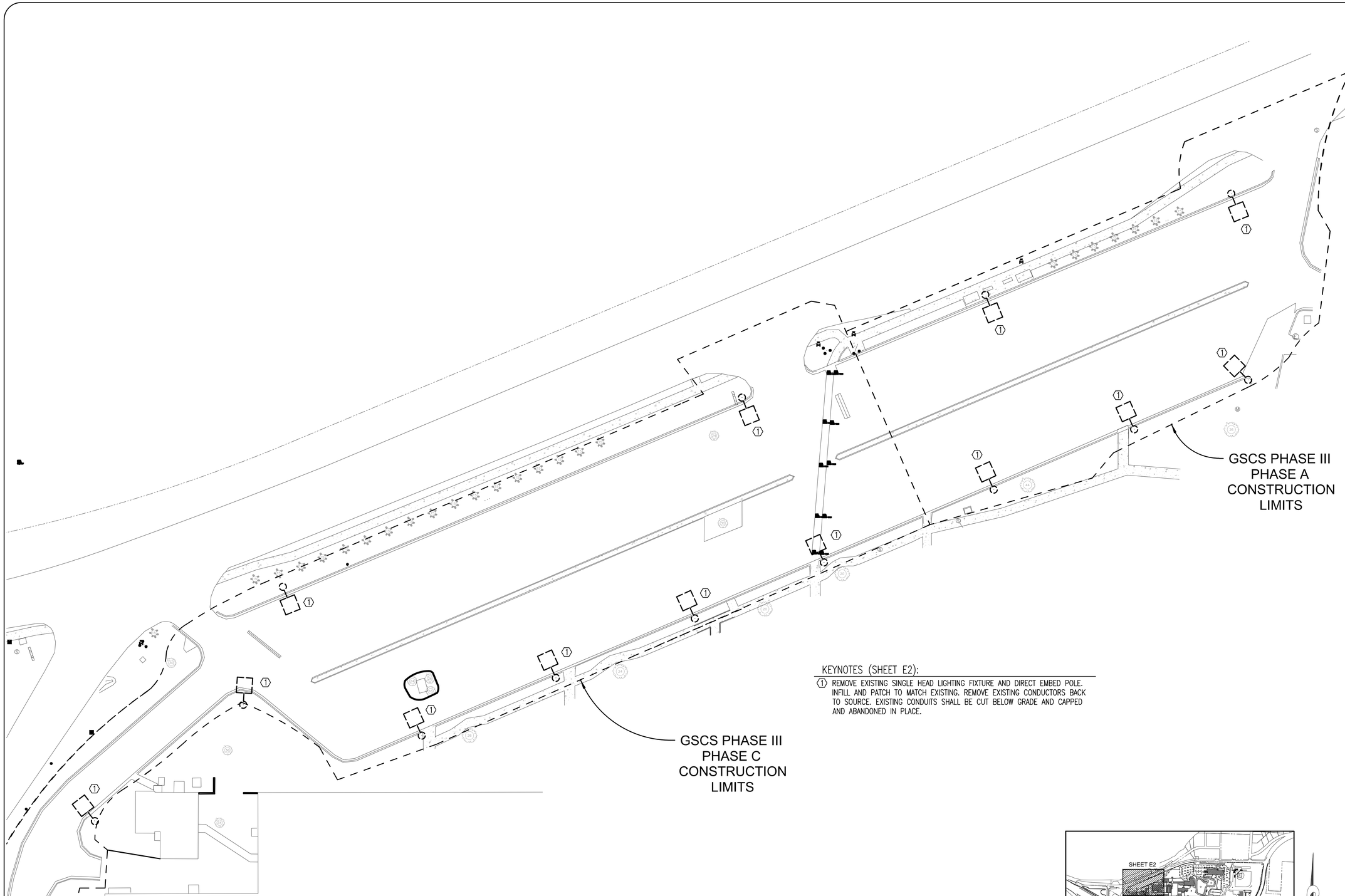



KEYNOTES (SHEET E2):

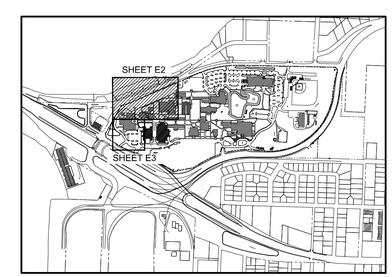
1. REMOVE EXISTING SINGLE HEAD LIGHTING FIXTURE AND DIRECT EMBED POLE. INFILL AND PATCH TO MATCH EXISTING. REMOVE EXISTING CONDUCTORS BACK TO SOURCE. EXISTING CONDUITS SHALL BE CUT BELOW GRADE AND CAPPED AND ABANDONED IN PLACE.

## DEMOLITION PLAN AREA 'A'

SCALE: 1" = 30'

0' 15' 30' 60'

SCALE: 1" = 30'




KEY MAP
N.T.S.

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CAMPUS IMPROVEMENTS

ITB # 8 - 2016/2017

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SHEET TITLE:
ELECTRICAL DEMOLITION PLAN AREA A

| PROJECT NO. | SHEET |
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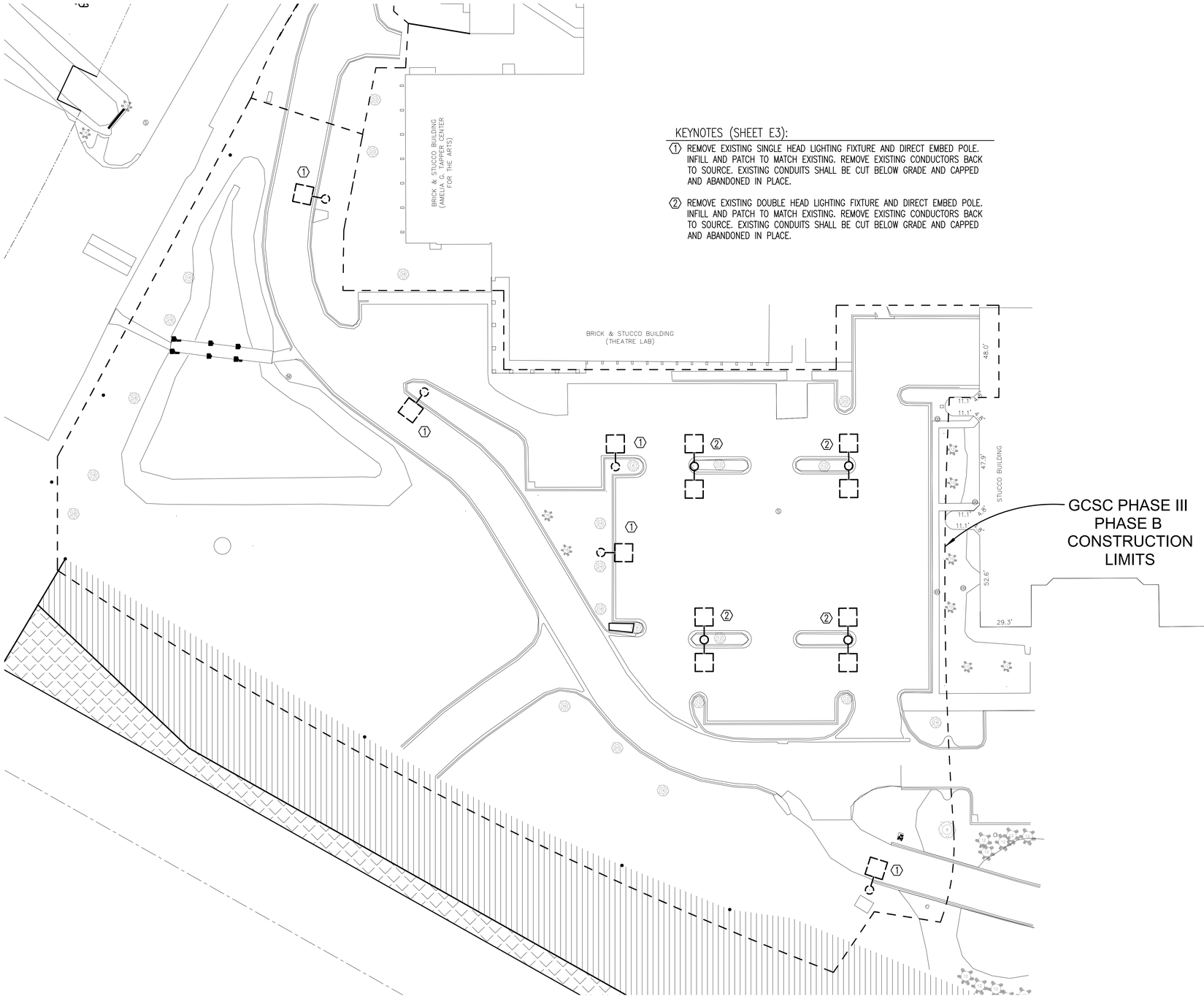
KEYNOTES (SHEET E3):

1. REMOVE EXISTING SINGLE HEAD LIGHTING FIXTURE AND DIRECT EMBED POLE. INFILL AND PATCH TO MATCH EXISTING. REMOVE EXISTING CONDUCTORS BACK TO SOURCE. EXISTING CONDUITS SHALL BE CUT BELOW GRADE AND CAPPED AND ABANDONED IN PLACE.
2. REMOVE EXISTING DOUBLE HEAD LIGHTING FIXTURE AND DIRECT EMBED POLE. INFILL AND PATCH TO MATCH EXISTING. REMOVE EXISTING CONDUCTORS BACK TO SOURCE. EXISTING CONDUITS SHALL BE CUT BELOW GRADE AND CAPPED AND ABANDONED IN PLACE.

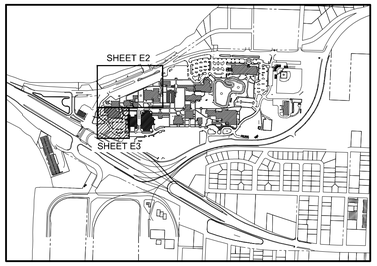



## DEMOLITION PLAN AREA 'B'

SCALE: 1" = 30'

0' 15' 30' 60'

SCALE: 1" = 30'




KEY MAP
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PROJECT:

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CAMPUS IMPROVEMENTS
ITB # 8 - 2016/2017

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ELECTRICAL DEMOLITION PLAN AREA B

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FIXTURE INSTALLATION NOTE:

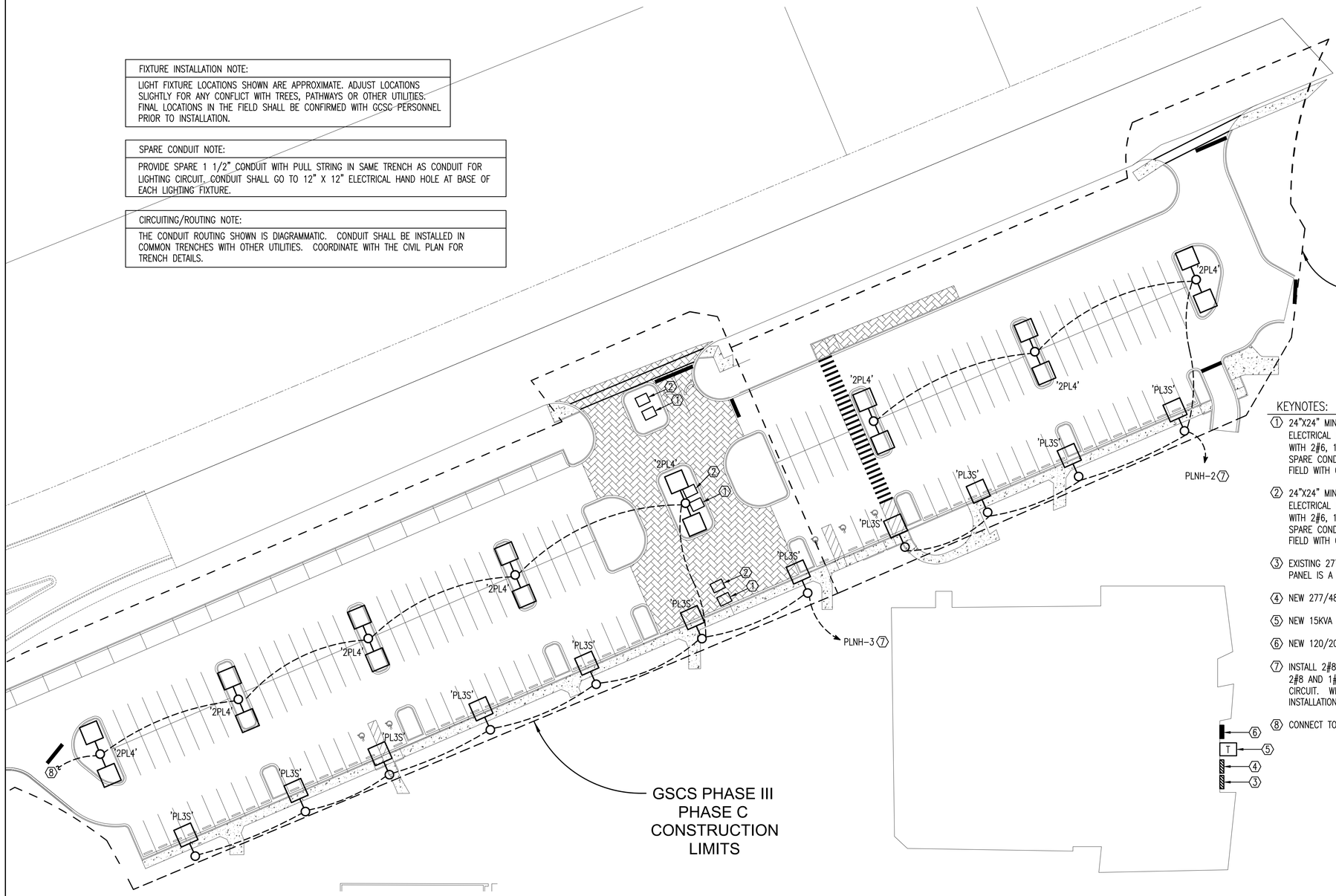
LIGHT FIXTURE LOCATIONS SHOWN ARE APPROXIMATE. ADJUST LOCATIONS SLIGHTLY FOR ANY CONFLICT WITH TREES, PATHWAYS OR OTHER UTILITIES. FINAL LOCATIONS IN THE FIELD SHALL BE CONFIRMED WITH GCSC PERSONNEL PRIOR TO INSTALLATION.

SPARE CONDUIT NOTE:

PROVIDE SPARE 1 1/2" CONDUIT WITH PULL STRING IN SAME TRENCH AS CONDUIT FOR LIGHTING CIRCUIT. CONDUIT SHALL GO TO 12" X 12" ELECTRICAL HAND HOLE AT BASE OF EACH LIGHTING FIXTURE.

CIRCUITING/ROUTING NOTE:

THE CONDUIT ROUTING SHOWN IS DIAGRAMMATIC. CONDUIT SHALL BE INSTALLED IN COMMON TRENCHES WITH OTHER UTILITIES. COORDINATE WITH THE CIVIL PLAN FOR TRENCH DETAILS.



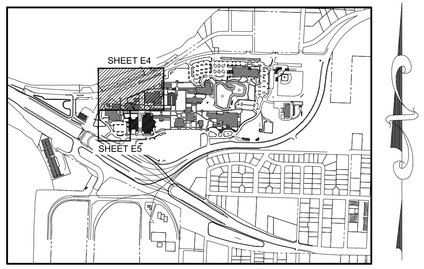

KEYNOTES:

1. 24"X24" MINIMUM ELECTRICAL HANDHOLE FOR 120 VOLT POWER; SEE ELECTRICAL MAINTENANCE/HANDHOLE DETAIL SHEET E1. INSTALL 1" CONDUIT WITH 2#6, 1#6 FROM THE HANDHOLE TO PANEL PLNL. PROVIDE 10' OF SPARE CONDUCTOR IN HANDHOLE. COORDINATE EXACT HANDHOLE LOCATION IN FIELD WITH GCSC REPRESENTATIVES AND ARCHITECT PRIOR TO INSTALLATION.
2. 24"X24" MINIMUM ELECTRICAL HANDHOLE FOR 277 VOLT POWER; SEE ELECTRICAL MAINTENANCE/HANDHOLE DETAIL SHEET E1. INSTALL 1" CONDUIT WITH 2#6, 1#6 FROM THE HANDHOLE TO PANEL PLNH. PROVIDE 10' OF SPARE CONDUCTOR IN HANDHOLE. COORDINATE EXACT HANDHOLE LOCATION IN FIELD WITH GCSC REPRESENTATIVES AND ARCHITECT PRIOR TO INSTALLATION.
3. EXISTING 277/480V, 3Ø, 4W 225A MAIN BREAKER PANEL 'MCLP' TO REMAIN. PANEL IS A FEDERAL PACIFIC LDP PANELBOARD.
4. NEW 277/480V, 3Ø, 4W 100 AMP PANEL 'PLNH'
5. NEW 15KVA DRY TYPE TRANSFORMER IN NEMA 3R ENCLOSURE.
6. NEW 120/208V, 3Ø, 4W 60 AMP PANEL 'PLNL'
7. INSTALL 2#8 AND 1#8 GROUND IN 1" CONDUIT TO PANEL 'PL'. CONTINUE 2#8 AND 1#8 GROUND IN 1" CONDUIT THROUGH THE END DEVICE OF THE CIRCUIT. WHERE POSSIBLE UTILIZE THE COMMON UTILITY TRENCH FOR ALL INSTALLATIONS THROUGH THE EXISTING PARKING AREA.
8. CONNECT TO FIXTURE 'PL2' ALONG ROADWAY. SEE SHEET E5.

## NEW WORK PLAN AREA 'A'

SCALE: 1" = 30'

0' 15' 30' 60'
SCALE: 1" = 30'





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GCSC PHASE 3
CAMPUS IMPROVEMENTS
ITB # 8 - 2016/2017

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1/8/18

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SHEET TITLE:
NEW WORK PLAN
AREA 'A'

| PROJECT NO. | SHEET |
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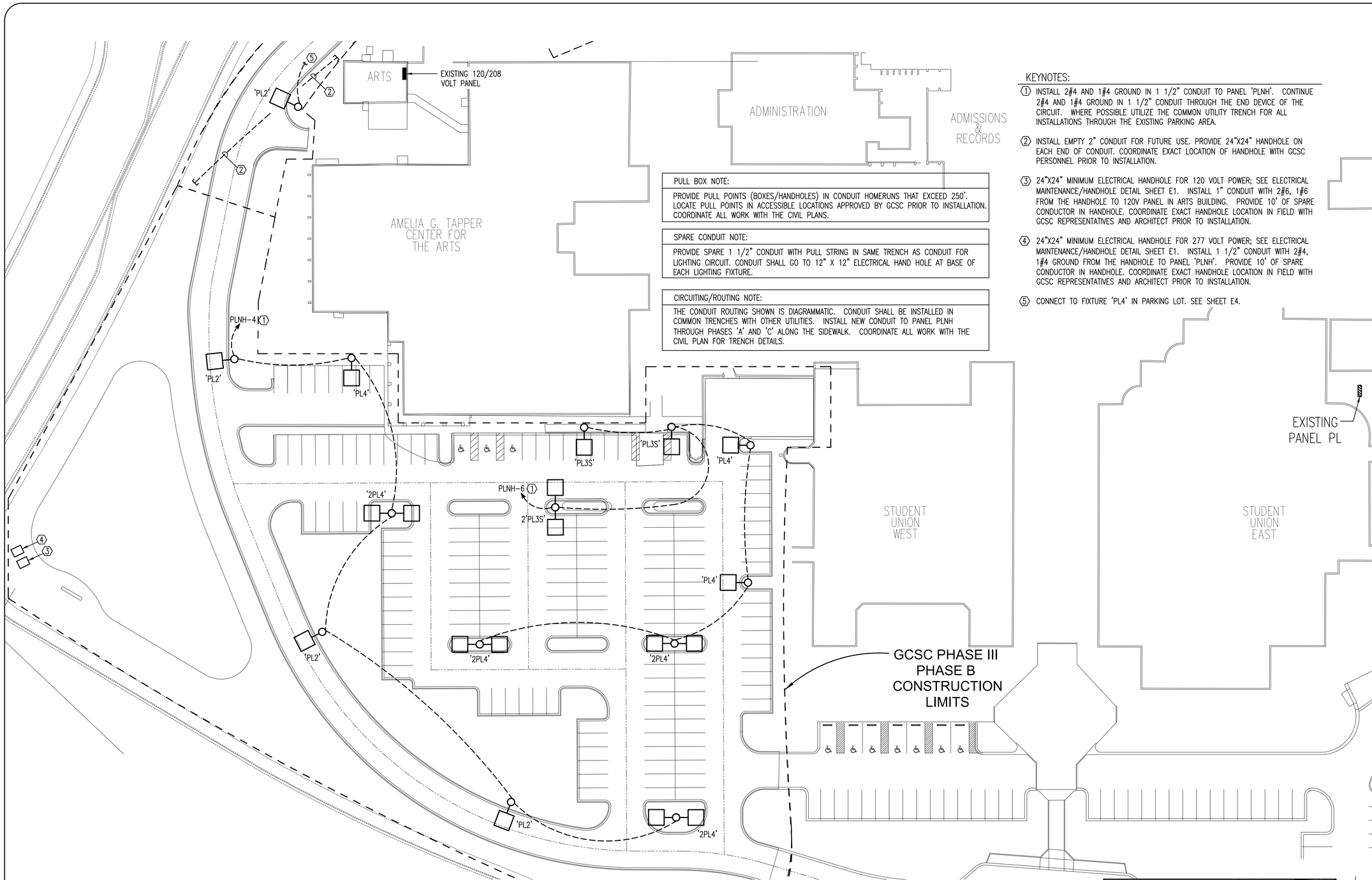



PULL BOX NOTE:

PROVIDE PULL POINTS (BOXES/HANDHOLES) IN CONDUIT HOMERUNS THAT EXCEED 250'. LOCATE PULL POINTS IN ACCESSIBLE LOCATIONS APPROVED BY GCSC PRIOR TO INSTALLATION. COORDINATE ALL WORK WITH THE CIVIL PLANS.

SPARE CONDUIT NOTE:

PROVIDE SPARE 1 1/2" CONDUIT WITH PULL STRING IN SAME TRENCH AS CONDUIT FOR LIGHTING CIRCUIT. CONDUIT SHALL GO TO 12" X 12" ELECTRICAL HAND HOLE AT BASE OF EACH LIGHTING FIXTURE.

CIRCUITING/ROUTING NOTE:

THE CONDUIT ROUTING SHOWN IS DIAGRAMMATIC. CONDUIT SHALL BE INSTALLED IN COMMON TRENCHES WITH OTHER UTILITIES. INSTALL NEW CONDUIT TO PANEL PLNH THROUGH PHASES 'A' AND 'C' ALONG THE SIDEWALK. COORDINATE ALL WORK WITH THE CIVIL PLAN FOR TRENCH DETAILS.

KEYNOTES:

1. INSTALL 2#4 AND 1#4 GROUND IN 1 1/2" CONDUIT TO PANEL 'PLNH'. CONTINUE 2#4 AND 1#4 GROUND IN 1 1/2" CONDUIT THROUGH THE END DEVICE OF THE CIRCUIT. WHERE POSSIBLE UTILIZE THE COMMON UTILITY TRENCH FOR ALL INSTALLATIONS THROUGH THE EXISTING PARKING AREA.
2. INSTALL EMPTY 2" CONDUIT FOR FUTURE USE. PROVIDE 24"X24" HANDHOLE ON EACH END OF CONDUIT. COORDINATE EXACT LOCATION OF HANDHOLE WITH GCSC PERSONNEL PRIOR TO INSTALLATION.
3. 24"X24" MINIMUM ELECTRICAL HANDHOLE FOR 120 VOLT POWER; SEE ELECTRICAL MAINTENANCE/HANDHOLE DETAIL SHEET E1. INSTALL 1" CONDUIT WITH 2#6, 1#6 FROM THE HANDHOLE TO 120V PANEL IN ARTS BUILDING. PROVIDE 10' OF SPARE CONDUCTOR IN HANDHOLE. COORDINATE EXACT HANDHOLE LOCATION IN FIELD WITH GCSC REPRESENTATIVES AND ARCHITECT PRIOR TO INSTALLATION.
4. 24"X24" MINIMUM ELECTRICAL HANDHOLE FOR 277 VOLT POWER; SEE ELECTRICAL MAINTENANCE/HANDHOLE DETAIL SHEET E1. INSTALL 1 1/2" CONDUIT WITH 2#4, 1#4 GROUND FROM THE HANDHOLE TO PANEL 'PLNH'. PROVIDE 10' OF SPARE CONDUCTOR IN HANDHOLE. COORDINATE EXACT HANDHOLE LOCATION IN FIELD WITH GCSC REPRESENTATIVES AND ARCHITECT PRIOR TO INSTALLATION.
5. CONNECT TO FIXTURE 'PL4' IN PARKING LOT. SEE SHEET E4.

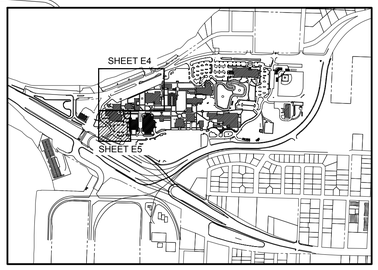
FIXTURE INSTALLATION NOTE:

LIGHT FIXTURE LOCATIONS SHOWN ARE APPROXIMATE. ADJUST LOCATIONS SLIGHTLY FOR ANY CONFLICT WITH TREES, PATHWAYS OR OTHER UTILITIES. FINAL LOCATIONS IN THE FIELD SHALL BE CONFIRMED WITH GCSC PERSONNEL PRIOR TO INSTALLATION.

## NEW WORK PLAN AREA 'B'

SCALE: 1" = 30'

0' 15' 30' 60'
SCALE: 1" = 30'

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CONSTRUCTION DOCUMENTS

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SHEET TITLE:
NEW WORK PLAN AREA 'B'

| PROJECT NO. | SHEET |
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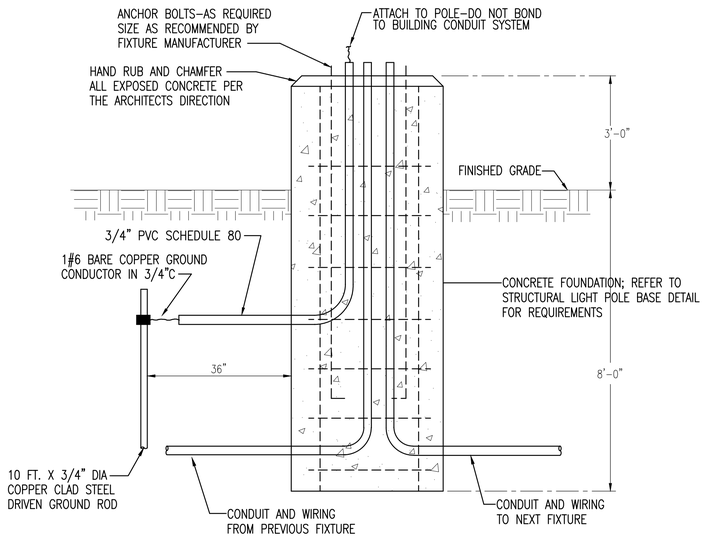
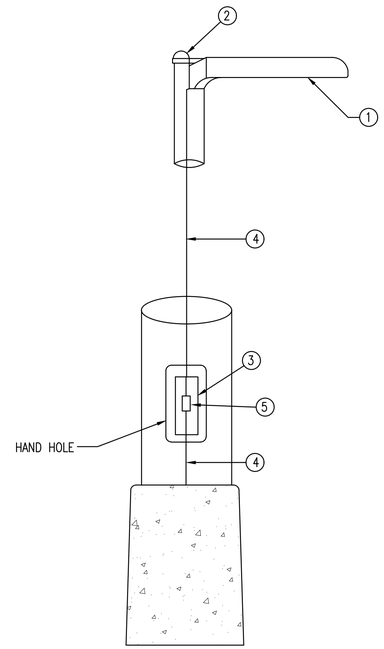



## ELECTRICAL POLE BASE FOR FIXTURES

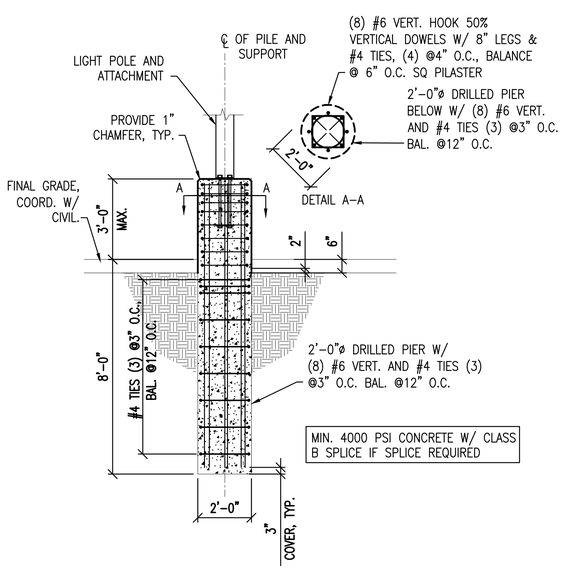
NOT TO SCALE




| ITEM # | DESCRIPTION |
|---|---|
| 1 | LED FIXTURE; SEE LIGHTING FIXTURE SCHEDULE FOR EXACT FIXTURE |
| 2 | NWTL TWIST LOCK LIGHTING CONTROLLER |
| 3 | HANDHOLE |
| 4 | #8 WIRING TO LIGHT FIXTURE |
| 5 | SURGE SUPPRESSOR |

## NWTL-III-IP MOUNTING ON TOP OF POLE

NOT TO SCALE




## STRUCTURAL LIGHT POLE BASE DETAIL

NOT TO SCALE

DETAIL PROVIDED IS FOR A CAST IN PLACE POLE BASE. IF THE CONTRACTOR ELECTS TO INSTALL A PRECAST POLE BASE, SIGNED AND SEALED SHOP DRAWINGS SHALL BE PROVIDED BY A SPECIALTY ENGINEER FOR REVIEW.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PROJECT:
GCSC PHASE 3
CAMPUS IMPROVEMENTS
ITB # 8 - 2016/2017


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CONSTRUCTION DOCUMENTS

| SCALE: | DATE: |
|---|---|
| AS SHOWN | 01/08/18 |
| DRAWN: DCC | CHECKED: DLM |

| NO. | REVISION: | DATE: |
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| | | |

SHEET TITLE:
ELECTRICAL DETAILS

| PROJECT NO. | SHEET |
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| 4166-15 | E6 |


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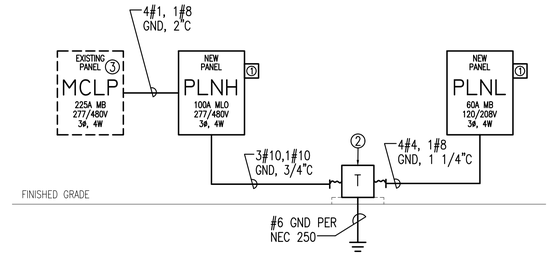


# PANEL 'PLNH' POWER RISER DIAGRAM

NOT TO SCALE

## PANEL 'PLNH' POWER RISER KEYNOTES:

① SURGE SUPPRESSOR; EQUAL TO SURGE SUPPRESSION INC. #SKB3Y2D3 INSTALL PER MANUFACTURER'S RECOMMENDATIONS; SURGE SUPPRESSOR SHALL BE NEMA 3R RATED.

② GENERAL PURPOSE 15KVA 480△– 208Y/120V, 3ø, 4W, DRY TYPE TRANSFORMER. PROVIDE NEMA 3R ENCLOSURE, WEATHERSHIELDS AND CONCRETE PAD 4" THICK AND 4" LARGER THAN FOOTPRINT OF TRANSFORMER.

③ INSTALL NEW 100 AMP/3 POLE BREAKER IN EXISTING SPACE TO SERVE NEW PANEL.

277/480 VOLT 3ø 4W
100 AMP MAIN LUGS ONLY

## CIRCUIT BREAKER PANEL SCHEDULE
## NEW PANEL PLNH

SURFACE MOUNTED
NEMA 4X ENCLOSURE
PANEL SHALL BE LOCKABLE

| CKT | LOAD DESCRIPTION | BREAKER POLE | BREAKER AMP | KVA/PHASE A | KVA/PHASE B | KVA/PHASE C | KVA/PHASE A | KVA/PHASE B | KVA/PHASE C | BREAKER AMP | BREAKER POLE | LOAD DESCRIPTION | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ENTRANCE ISLAND SIGN CIRCUIT | 1 | 20 | .1 | | | 1.70 | | | 20 | 1 | PARKING LOT LIGHTS | 2 |
| 3 | SIDEWALK LIGHTS | 1 | 20 | | .85 | | | 1.80 | | 20 | 1 | WEST ROAD & PARK LOT LIGHT | 4 |
| 5 | CENTER ISLAND SIGN CIRCUIT | 1 | 20 | | | .1 | | | 2.25 | 20 | 1 | WEST PARKING LOT LIGHTS | 6 |
| 7 | SIDEWALK SIGN CIRCUIT | 1 | 20 | .1 | | | | | | 20 | 1 | SPARE | 8 |
| 9 | SPARE | 1 | 20 | | | | | | | 20 | 1 | SPARE | 10 |
| 11 | SPACE ONLY | 1 | -- | | | | | | | -- | 1 | SPACE ONLY | 12 |
| 13 | SPACE ONLY | 1 | -- | | | | | | | -- | 1 | SPACE ONLY | 14 |
| 15 | SPACE ONLY | 1 | -- | | | | | | | -- | 1 | SPACE ONLY | 16 |
| 17 | SPACE ONLY | 1 | -- | | | | | | | -- | 1 | SPACE ONLY | 18 |
| 19 | SPACE ONLY | 1 | -- | | | | | | | -- | 1 | SPACE ONLY | 20 |
| 21 | SPACE ONLY | 1 | -- | | | | | | | -- | 1 | SPACE ONLY | 22 |
| 23 | SPACE ONLY | 1 | -- | | | | | | | -- | 1 | SPACE ONLY | 24 |
| 25 | ↓ | ↓ | ↓ | 1.0 | | | | | | ↓ | ↓ | ↓ | 26 |
| 27 | PANEL 'PLNL' VIA TRANSFORMER | 3 | 25 | | 1.0 | | | | | 30 | 3 | SURGE SUPPRESSOR | 28 |
| 29 | ↓ | ↓ | ↓ | | | 1.0 | | | | ↓ | ↓ | ↓ | 30 |

TOTAL CONNECTED KVA

| A | B | C |
|---|---|---|
| 2.80 | 3.65 | 3.35 |

MINIMUM INTERRUPTING CAPACITY: 22,000 AMPS SYMMETRICAL

120/208 VOLT 3ø 4W
60 AMP MAIN BREAKER

## CIRCUIT BREAKER PANEL SCHEDULE
## NEW PANEL PLNL

SURFACE MOUNTED
NEMA 4X ENCLOSURE
PANEL SHALL BE LOCKABLE

| CKT | LOAD DESCRIPTION | BREAKER POLE | BREAKER AMP | KVA/PHASE A | KVA/PHASE B | KVA/PHASE C | KVA/PHASE A | KVA/PHASE B | KVA/PHASE C | BREAKER AMP | BREAKER POLE | LOAD DESCRIPTION | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ENTRANCE ISLAND SIGN CIRCUIT | 1 | 20 | 1.0 | | | | | | 20 | 1 | SPARE | 2 |
| 3 | CENTER ISLAND SIGN CIRCUIT | 1 | 20 | | 1.0 | | | | | 20 | 1 | SPARE | 4 |
| 5 | SIDEWALK SIGN CIRCUIT | 1 | 20 | | | 1.0 | | | | 20 | 1 | SPARE | 6 |
| 7 | SPARE | 1 | 20 | | | | | | | 20 | 1 | SPARE | 8 |
| 9 | SPARE | 1 | 20 | | | | | | | 20 | 1 | SPARE | 10 |
| 11 | SPACE ONLY | 1 | -- | | | | | | | -- | 1 | SPACE ONLY | 12 |
| 13 | SPACE ONLY | 1 | -- | | | | | | | -- | 1 | SPACE ONLY | 14 |
| 15 | SPACE ONLY | 1 | -- | | | | | | | -- | 1 | SPACE ONLY | 16 |
| 17 | SPACE ONLY | 1 | -- | | | | | | | -- | 1 | SPACE ONLY | 18 |
| 19 | SPACE ONLY | 1 | -- | | | | | | | ↓ | ↓ | ↓ | 20 |
| 21 | SPACE ONLY | 1 | -- | | | | | | | 30 | 3 | SURGE SUPPRESSOR | 22 |
| 23 | SPACE ONLY | 1 | -- | | | | | | | ↓ | ↓ | ↓ | 24 |

TOTAL CONNECTED KVA

| A | B | C |
|---|---|---|
| 1.0 | 1.0 | 1.0 |

MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL

FLA
FLORIDA ARCHITECTS
LICENSE #AA0002730
648 FLORIDA AVENUE
PANAMA CITY, FL 32401
850.257.5400

CLIENT:

GULF COAST STATE COLLEGE
SINCE 1957
5230 US-98
PANAMA CITY, FL 32401
850.169.1551

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SHEET TITLE:
POWER RISER DIAGRAM AND PANEL SCHEDULES

| PROJECT NO. | SHEET |
|---|---|
| 4166-15 | E7 |

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