

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
**DRIVEWAY CONNECTION PERMIT
FOR ALL CATEGORIES****PART 1: PERMIT INFORMATION**APPLICATION NUMBER: 2024-A-391-00044Permit Category: J - Government Entity Access Classification: 3Project: Camp HelenPermittee: David MatsonSection/Mile Post: 46010 / .206 - .425 State Road: 30Section/Mile Post: / State Road: **PART 2: PERMITTEE INFORMATION**Permittee Name: David MatsonPermittee Mailing Address: 3900 Commonwealth Blvd.City, State, Zip: Tallahassee, Florida 32399Telephone: (850) 245-2594 ext. _____Engineer/Consultant/or Project Manager: Engineer responsible for construction inspection:

NAME

P.E. #

Mailing Address: City, State, Zip: Telephone: FAX, Mobile Phone, etc. Fax: / Mobile: _____**PART 3: PERMIT APPROVAL**

The above application has been reviewed and is hereby approved subject to all Provisions as attached.

Permit Number: 2024-A-391-00044

Department of Transportation

Signature: Lisa Ward Title: MAINTENANCE MANAGER/PERMITSDepartment Representative's Printed Name Lisa WardTemporary Permit ☐ YES ☒ NO (If temporary, this permit is only valid for 6 months)Special provisions attached ☐ YES ☒ NODate of Issuance: 1/30/2025

If this is a normal (non-temporary) permit it authorizes construction for one year from the date of issuance. This can only be extended by the Department as specified in 14-96.007(6).

See following pages for General and Special ProvisionsApproved
2024-A-391-00044
Lisa Ward
1/30/2025

PART 4: GENERAL PROVISIONS

1. Notify the Department of Transportation Maintenance Office at least 48 hours in advance of starting proposed work.
Phone: 8507674914 , Attention: Lisa Ward
2. A copy of the approved permit must be displayed in a prominent location in the immediate vicinity of the connection construction.
3. Comply with Rule 14-96.008(1), F.A.C., Disruption of Traffic.
4. Comply with Rule 14-96.008(7), F.A.C., on Utility Notification Requirements.
5. All work performed in the Department's right of way shall be done in accordance with the most current Department standards, specifications and the permit provisions.
6. The permittee shall not commence use of the connection prior to a final inspection and acceptance by the Department.
7. Comply with Rule 14-96.003(3)(a), F.A.C., Cost of Construction.
8. If a Significant Change of the permittee's land use, as defined in Section 335.182, Florida Statutes, occurs, the Permittee must contact the Department.
9. Medians may be added and median openings may be changed by the Department as part of a Construction Project or Safety Project. The provision for a median might change the operation of the connection to be for right turns only.
10. All conditions in NOTICE OF INTENT WILL APPLY unless specifically changed by the Department.
11. All approved connection(s) and turning movements are subject to the Department's continuing authority to modify such connection(s) or turning movements in order to protect safety and traffic operations on the state highway or State Highway System.
12. **Transportation Control Features and Devices in the State Right of Way.** Transportation control features and devices in the Department's right of way, including, but not limited to, traffic signals, medians, median openings, or any other transportation control features or devices in the state right of way, are operational and safety characteristics of the State Highway and are not means of access. The Department may install, remove or modify any present or future transportation control feature or device in the state right of way to make changes to promote safety in the right of way or efficient traffic operations on the highway.
13. The Permittee for him/herself, his/her heirs, his/her assigns and successors in interest, binds and is bound and obligated to save and hold the State of Florida, and the Department, its agents and employees harmless from any and all damages, claims, expense, or injuries arising out of any act, neglect, or omission by the applicant, his/her heirs, assigns and successors in interest that may occur by reason of this facility design, construction, maintenance, or continuing existence of the connection facility, except that the applicant shall not be liable under this provision for damages arising from the sole negligence of the Department.
14. The Permittee shall be responsible for determining and notify all other users of the right of way.
15. Starting work on the State Right of Way means that I am accepting all conditions on the Permit.

Approved
2024-A-391-00044
Lisa Ward
1/30/2025

PART 5: SPECIAL PROVISIONS

NON-CONFORMING CONNECTIONS: ☐ YES ☒ NO

If this is a non-conforming connection permit, as defined in Rule Chapters 14-96 and 14-97, then the following shall be a part of this permit.

1. The non-conforming connection(s) described in this permit is (are) not permitted for traffic volumes exceeding the Permit Category on page 1 of this permit, or as specified in "Other Special Provisions" below.
2. All non-conforming connections will be subject to closure or relocation when reasonable access becomes available in the future.

OTHER SPECIAL PROVISIONS:

The approval of this permit is not approval for a lane closure. Please contact your local FDOT Office (850-767-4914) to obtain approval to close a lane of traffic on a state road.

PART 6: APPEAL PROCEDURES

You may petition for an administrative hearing pursuant to sections 120.569 and 120.57, Florida Statutes. If you dispute the facts stated in the foregoing Notice of Intended Department Action (hereinafter Notice), you may petition for a formal administrative hearing pursuant to section 120.57 (1), Florida Statutes. If you agree with the facts stated in the Notice, you may petition for an informal administrative hearing pursuant to section 120.57(2), Florida Statutes. You must file the petition with:

Clerk of Agency Proceedings
Department of Transportation
Haydon Burns Building
605 Suwannee Street, M.S. 58
Tallahassee, Florida 32399-0458

The petition for an administrative hearing must conform to the requirements of Rule 28-106.201(2) or Rule 28-106.301(2), Florida Administrative Code, and be filed with the Clerk of Agency Proceedings by 5:00 p.m. no later than 21 days after you received the Notice. The petition must include a copy of the Notice, be legible, on 8 1/2 by 11 inch white paper, and contain:

1. Your name, address, telephone number, any Department of Transportation identifying number on the Notice, if known, the name and identification number of each agency affected, if known, and the name, address, and telephone number of your representative, if any, which shall be the address for service purposes during the course of the proceeding.
2. An explanation of how your substantial interests will be affected by the action described in the Notice;
3. A statement of when and how you received the Notice;
4. A statement of all disputed issues of material fact. If there are none, you must so indicate;
5. A concise statement of the ultimate facts alleged, including the specific facts you contend warrant reversal or modification of the agency's proposed action, as well as an explanation of how the alleged facts relate to the specific rules and statutes you contend require reversal or modification of the agency's proposed action;
6. A statement of the relief sought, stating precisely the desired action you wish the agency to take in respect to the agency's proposed action.

If there are disputed issues of material fact a formal hearing will be held, where you may present evidence and argument on all issues involved and conduct cross-examination. If there are no disputed issues of material fact an informal hearing will be held, where you may present evidence or a written statement for consideration by the Department.

Mediation, pursuant to section 120.573, Florida Statutes, may be available if agreed to by all parties, and on such terms as may be agreed upon by all parties. The right to an administrative hearing is not affected when mediation does not result in a settlement.

Your petition for an administrative hearing shall be dismissed if it is not in substantial compliance with the above requirements of Rule 28-106.201(2) or Rule 28-106.301(2), Florida Administrative Code. If you fail to timely file your petition in accordance with the above requirements, you will have waived your right to have the intended action reviewed pursuant to chapter 120, Florida Statutes, and the action set forth in the Notice shall be conclusive and final.

Approved
1/30/2025
Lisa Ward
0044

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
**RECORD OF WAIVED REQUIREMENTS
FOR ALL CATEGORIES****THIS FORM SHALL BE KEPT WITH THE APPLICATION FILE****PART 1: IDENTIFICATION**

Project Name: Camp Helen

Application Number: 2024-A-391-00044

Applicant: David Matson

Telephone: (850) 245-2594 ext. _____

PART 2: STAFF INFORMATION

Staff Person: Lisa Ward

Date of Contact: 9/18/2024

Type of Contact:

☐ Telephone

☐ Visit

☐ E-mail

☒ Written Request

PART 3: REQUIREMENT WAIVED

Permit Fee

PART 4: JUSTIFICATION

This Justification will be based on principles found in existing Florida Statutes or Department Administrative Rules
Other Government Entity

Signature of Staff Person: Lisa Ward

Title: MAINTENANCE MANAGER/PERMITS

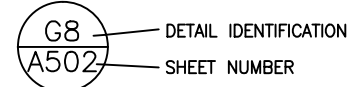
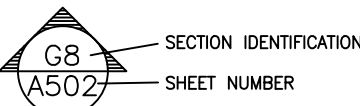
Date: 1/13/2025

Approved
2024-A-391-00044
Lisa Ward
1/30/2025

ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR
A.H.U.	AIR HANDLING UNIT
ALUM.	ALUMINUM
ALT.	ALTERNATE
APPROX.	APPROXIMATE
BD.	BOARD
B.D.C.	BUILDING
B.L.K.	BLOCK
B.L.G.	BLOCKING
B.L.T.	BUILT
BRK.	BRICK
BRKR.	BREAKER
BSMT.	BASEMENT
C.J.	CONTROL JOINT
C.L.D.	CEILING
CL.R.	CLEAR
CMU	CONCRETE MASONRY UNIT
CO.	CLEAN OUT
CONC.	CONCRETE
CU.	COPPER
CU. FT.	CUBIC FOOT
CU. IN.	CUBIC INCH
CU. YD.	CUBIC YARD
DIAM.	DIAMETER
DBL.	DOUBLE
DBT.	DRY-BULB TEMPERATURE
DEG.	DEGREE
DEPT.	DEPARTMENT
DF	DRINKING FOUNTAIN
DISC.	DISCONNECT
D.L.	DEAD LOAD
DN.	DOWN
D.S.	DOWN SLOUT
DWG.	DRAWING
E.F.	EXHAUST FAN
EXH	EXHAUST
EXP. JT.	EXPANSION JOINT
EXT.	EXTERIOR
FIN	FINISH
FL.	FLOOR
FLUOR.	FLUORESCENT
FR	FIREPLACE
FR	FIRE RATING
FT.	FOOT/FEET
FIG.	FIGURING
GALV.	GALVANIZED
GF1	GROUND FAULT
GOVT.	GOVERNMENT
GR.FL.	GROUND FLOOR
GYP.	GYPSPUM
H.C.	HOLLOW CORE
H.D.G.	HOT DIPPED GALVANIZED
HDR.	HEADER
HDWR.	HARDWARE
H.P.	HORSEPOWER
HT.	HEIGHT
HTR.	HEATER
HV.	HIGH VOLTAGE
HVAC.	HEATING, VENTILATING AND AIR CONDITIONING
HWY.	HIGHWAY
ID	INSIDE DIAMETER
IN	INCH
INCAND.	INCANDESCENT
INCL.	INCLUDED
INSUL.	INSULATION
INT.	INTERIOR
INV. EL.	INVERT ELEVATION
JST.	JOIST
KD	KILN DRIED
KW.	KILOWATT
KWH	KILOWATT HOUR
LAM.	LAMINATED
LAV.	LAVATORY
LB.	POUND
LTC.	LIGHT
LTH.	LENGTH
LIN.	LINE
LL	LIVE LOAD
MANUF.	MANUFACTURE
MAX.	MAXIMUM
MF.	MILL FINISH
MIN.	MINIMUM
MLDG.	MOLDING
MHW.	MEAN HIGH WATER
MHRW.	MEAN HIGHER HIGH WATER
M.L.W.	MEAN LOW WATER
MLW.	MEAN LOWER LOW WATER
MSL	MEAN SEA LEVEL
MOD.	MODIFICATION
NTS	NOT TO SCALE
NO./#	NUMBER
OA	OVERALL
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
OFF.	OFFICE
O/H	OVER HEAD
OPP.	OPPOSITE
PARTN.	PARTITION
PC	PORTLAND CEMENT
PCF	POUNDS PER CUBIC FOOT
P.E.	PROFESSIONAL ENGINEER
PERF.	PERFORATE
PERF.	PERRPENDICULAR
PL	PLATE
P.L.G.	PILING
PLYWD.	PLYWOOD
P.NL	PANEL
PREFAB.	PREFABRICATED
PRELIM.	PRELIMINARY
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
P.T.	PRESSURE TREATED
QS	QUARTER SAWN
R	RADIUS
RCPT	RECEPTACLE
REBAR	REINFORCING BAR
REFRIG.	REFRIGERATION
REINF.	REINFORCING
RG	ROOFING
RGH	ROUGH
RM	ROOM
R.O.	ROUGH OPENING
RS	ROUGH SAWN
S.C.	SOLID CORE
SCH.	SCHEDULE
SDG	SIDING
SECT	SECTION
SFTWD	SOFTWOOD
SGD	SLIDING GLASS DOOR
SH	SHINGLES
SPEC	SPECIFICATION
SPR	SPRUCE
SQ.	SQUARE
SQ. FT.	SQUARE FOOT
SQ. IN.	SQUARE INCH
SQ. YD.	SQUARE YARD
SS	STAINLESS STEEL
STL	STEEL
SUB. FL.	SUBFLOOR
SUP.	SUPPLY
SW.	SWITCH
SYM.	SYMMETRICAL
S.Y.P.	SOUTHERN YELLOW PINE
S.S.	SURFACED FOUR SIDES
TEL	TELEPHONE
T&G	TONGUE-AND-GROOVE
TYP.	TYPICAL
U.E.	UNDERGROUND ELECTRIC
U.G.	UNDER GROUND
UL	UNDERWRITERS LABORATORIES, INC.
V.	VOLT
VENT.	VENTILATOR
VERT.	VERTICAL
VF	VERIFY IN FIELD
VOL.	VOLUME
VP	VENT PIPE
VTR	VENT THRU ROOF
W.	WATER
WBT	WET BULB TEMPERATURE
WC	WATER CLOSET
WD	WOOD
W.D.	WATERPROOF
WWF	WELDED WIRE FABRIC
YD.	YARD

REFERENCE LEGEND



APPLICABLE CODES AND DESIGN DATA

CODE LIST

FLORIDA BUILDING CODE, BUILDING (FBC-B).....	2023 Edition
FLORIDA BUILDING CODE, FUEL GAS (FBC-FG).....	2023 Edition
FLORIDA BUILDING CODE, MECHANICAL (FBC-M).....	2023 Edition
FLORIDA BUILDING CODE, PLUMBING (FBC-P).....	2023 Edition
FLORIDA BUILDING CODE, EXISTING BUILDING (FBC-EB).....	2023 Edition
FLORIDA BUILDING CODE, RESIDENTIAL (FBC-R).....	2023 Edition
FLORIDA FIRE PREVENTION CODE (FFPC).....	Latest Edition
NATIONAL ELECTRICAL CODE NFPA-70.....	Latest Edition
FDOT STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONST.	Latest Edition
FDOT STANDARD PLANS FOR ROAD CONST.....	Latest Edition
FLORIDA ACCESSIBILITY CODE.....	2023 Edition

SEE LS001 FOR DESIGN DATA

PRELIMINARY
NOT FOR
CONSTRUCTION

CAMP HELEN
STATE PARK
DISTRICT 1
BAY COUNTY

PARK IMPROVEMENT

PROJECT # 61307C - N3803

SCOPE OF PROJECT

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, SUPERVISION, AND PERMITTING TO SUCCESSFULLY CONSTRUCT ROADWAY ALTERATIONS, NEW DRIVEWAY, ENTERANCE PARKING AREA, RESTROOM, PAVILIONS, ADA ACCESSIBLE WALKWAYS, RAMPS, STAIRWAY, ADA ACCESSIBLE CANOE/KAYAK LAUNCH, AND ANY OTHER SITE WORK PER THE CONTRACT DOCUMENTS.

THE CONSTRUCTION OF A DAY-USE RESTROOM FACILITY CONSISTING OF 650 GSF OF ENCLOSED AREA INCLUDING A MEN’S RESTROOM, WOMEN’S RESTROOM, UNISEX RESTROOM AND CHASE AREA. THESE AREAS ARE NATURALLY VENTILATED. AN OPEN BREEZEWAY SHELTERS A VENDING AREA, THE ENTRANCES INTO THE RESTROOMS, AND A HIGH-LOW WATER FOUNTAIN. ALL WORK MUST BE PERFORMED PER CODE. ADA COMPLIANCE MUST BE MAINTAINED.

JAMES H. PETERSON IV, P.E.
DESIGNER

CN539-TA01
CONSULTANT CONTRACT NO.

NOVEMBER 11TH 2024 100% PLANS
INITIAL ISSUE DATE

SHEET NUMBER
G001

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A001
A101
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A201
A301
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C003
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SHEET TITLE
COVER PAGE

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INTERIOR ELEVATIONS
SCHEDULES

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TYPICAL SECTIONS
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PROPOSED UTILITY PLAN NORTH SIDE PICNIC AREA
DRIVEWAY PLAN & PROFILE
SITE PLAN TURN LANES
ADA KAYAK LAUNCH PLAN & PROFILE
LANDSCAPE PLAN
NORTH PICNIC AREA GRADING PLAN
NORTH PARKING LOT GRADING PLAN
NORTH DRIVEWAY GRADING PLAN
ADA KAYAK LAUNCH GRADING PLAN
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WEST BOUND TURN LANE CROSS SECTIONS
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P100-101
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P400

DISTRICT 2

DISTRICT 3

DISTRICT 4

DISTRICT 5



GENERAL NOTES

CIVIL GENERAL NOTES:

1. ALL WORK SHALL BE PERFORMED IN A SAFE MANNER. ALL SAFETY RULES AND GUIDELINES OF O.S.H.A. SHALL BE PERFORMED. THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ANY INJURIES OF HIS EMPLOYEES, AND TO TAKE COLOR PHOTOGRAPHS ALONG THE ROUTE OF THIS PROJECT TO RECORD EXISTING CONDITIONS PRIOR TO CONSTRUCTION, AND TO AID IN RESOLVING POSSIBLE FUTURE COMPLAINTS THAT MAY OCCUR DUE TO CONSTRUCTION OF THE PROJECT.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE JOB SITE PRIOR TO PREPARING THE BID FOR THE PURPOSE OF FAMILIARIZING HIMSELF WITH THE NATURE AND THE EXTENT OF THE WORK AND LOCAL CONDITIONS, EITHER SURFACE OR SUBSURFACE, WHICH MAY AFFECT THE WORK TO BE PERFORMED, AND THE EQUIPMENT, LABOR AND MATERIALS REQUIRED. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF COMPLETE PERFORMANCE UNDER THIS CONTRACT. THE CONTRACTOR IS URGED TO TAKE COLOR PHOTOGRAPHS ALONG THE ROUTE OF THIS PROJECT TO RECORD EXISTING CONDITIONS PRIOR TO CONSTRUCTION, AND TO AID IN RESOLVING POSSIBLE FUTURE COMPLAINTS THAT MAY OCCUR DUE TO CONSTRUCTION OF THE PROJECT.
3. ALL IMPROVEMENTS SHOWN ARE TO BE WARRANTED BY THE CONTRACTOR TO THE OWNER FOR A PERIOD OF ONE YEAR FROM DATE OF SUBSTANTIAL COMPLETION.
4. THE CONTRACTOR SHALL COORDINATE THEIR CONSTRUCTION WITH ALL OTHER CONTRACTORS. IN THE EVENT OF ANY CONFLICT WHATSOEVER, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND OWNER PRIOR TO PROCEEDING WITH CONSTRUCTION.
5. "AS-BUILT" DRAWINGS - AS-BUILT DRAWINGS ARE REQUIRED TO BE PROVIDED AND SIGNED AND SEALED BY A FLORIDA REGISTERED LAND SURVEYOR. THEREFORE, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTRACT WITH A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA FOR THE PREPARATION, FIELD LOCATIONS, CERTIFICATION, AND SUBMITTAL OF "AS-BUILT" DRAWINGS.
6. "AS-BUILT" RECORD DATA AND INFORMATION SHALL BE MAINTAINED BY THE CONTRACTOR. RECORD DRAWINGS SHALL BE SUPPLIED TO THE BDC, DODSTONE ARCHITECTS, AND GEORGE & ASSOCIATES CONSULTING ENGINEERS, INC.
7. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL SURVEY AND PROPERTY MONUMENTS. IF A MONUMENT IS DISTURBED, THE CONTRACTOR SHALL CONTACT WITH THE SURVEYOR OF RECORD FOR REINSTATEMENT OF THE MONUMENT.
8. ALL DEBRIS RESULTING FROM ALL ACTIVITIES SHALL BE DISPOSED OF OFF-SITE BY CONTRACTOR ON A WEEKLY BASIS.
9. ALL EXCESS UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR UNLESS DIRECTED OTHERWISE.
10. ALL EXISTING TREES TO REMAIN SHALL BE PRESERVED AND PROTECTED, EXCEPT FOR REMOVAL AS REQUIRED FOR CONSTRUCTION.
11. THE LOCATION OF ALL EXISTING UTILITIES, STRUCTURES, AND IMPROVEMENTS SHOWN ON THE DRAWINGS IS BASED ON LIMITED INFORMATION AND MAY NOT HAVE BEEN FIELD VERIFIED. THE LOCATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL NOTIFY RESPECTIVE UTILITY OWNERS AND FIELD VERIFY LOCATIONS AND OTHER INFORMATION PRIOR TO COMMENCING CONSTRUCTION. COMMENCING ANY CONSTRUCTION, IF THE LOCATIONS SHOWN ARE CONTRARY TO THE ACTUAL FIELD LOCATIONS, THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER OF THE DISCREPANCY. THE DISCREPANCY SHOULD BE RESOLVED PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING IN AREAS NEAR EXISTING UTILITIES AND IMPROVEMENTS AND SHALL BE RESPONSIBLE FOR AND SHALL REPAIR OR PAY FOR ALL DAMAGE MADE TO EXISTING UTILITIES OR OTHER IMPROVEMENTS. PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL GRADES, INVERTS, AND TYPE OF MATERIAL OF EXISTING UTILITIES TO WHICH HE SHALL CONNECT.
12. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL MATERIALS, FOR REVIEW AND APPROVAL, PRIOR TO PURCHASE OR CONSTRUCTION OF ANY UTILITY PIPE OR STRUCTURE.
13. UNSUITABLE MATERIALS BENEATH WATER AND SEWER PIPE AND/OR STRUCTURES SHALL BE REMOVED AND REPLACED WITH SELECTED BACK FILL PROPERLY COMPACTED IN ACCORDANCE WITH SPECIFICATIONS.
14. ALL WATER & SEWER CONSTRUCTION SHALL BE ACCOMPLISHED BY AN UNDERGROUND UTILITY CONTRACTOR LICENSED UNDER THE PROVISIONS OF CHAPTER 489 FLORIDA STATUTES.
15. CONTRACTOR SHALL PROVIDE SEDIMENT AND EROSION CONTROL DURING THE ENTIRE DURATION OF THE PROJECT. ALL JURISDICTIONAL WETLANDS SHALL BE PROTECTED FROM SEDIMENTATION AND EROSION. THE LOCATION OF ANY KIND, ANY WETLAND JURISDICTIONAL LINES ARE SHOWN ON THE PLANS FOR REFERENCE. CONTRACTOR SHALL MEET THE REQUIREMENTS SET FORTH BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION AND THE U.S. ARMY CORPS OF ENGINEERS AS RELATED TO JURISDICTIONAL WETLANDS.
16. CONTRACTOR SHALL COMPLY WITH THE CURRENT FLORIDA TRENCH SAFETY ACT (F.S. 553.60-553.64) ANY AND ALL THE TRENCH SAFETY STANDARDS 29 CFR PART 1926.650 SUBPART P, WHERE TRENCH EXCAVATION EXCEEDS 5 FT IN DEPTH, SEE FLORIDA STATUTE 553.60-553.64.
17. CONTRACTOR SHALL COMPLY WITH STORM WATER POLLUTION PREVENTION PLAN. A COPY OF THIS PLAN AND FORMS ARE INCLUDED IN THE SPECIFICATIONS.

AS BUILT / RECORD DRAWINGS:

1. CONTRACTOR SHALL PROVIDE GEORGE & ASSOCIATES CONSULTING ENGINEERS TWO SIGNED AND SEALED COPIES OF AS-BUILT DRAWINGS OF ALL FINISHED IMPROVEMENTS.
2. CONTRACTOR SHALL PROVIDE THE BDC, DODSTONE ARCHITECTS, AND GEORGE & ASSOCIATES CONSULTING ENGINEERS AS-BUILT DRAWINGS OF ALL FINISHED IMPROVEMENTS IN PDF AND DWG FORMAT.
3. AS-BUILT DRAWINGS TO BE PERFORMED AND CERTIFIED BY A FLORIDA LICENSED PROFESSIONAL LAND SURVEYOR.
4. AS-BUILT DRAWINGS SHALL BE SUBMITTED AFTER COMPLETION OF ALL IMPROVEMENTS AND PRIOR TO FINAL INSPECTION.
5. AS BUILT DRAWINGS SHALL INCLUDE, BUT NOT BE LIMITED TO:
- A. FINISHED FLOOR ELEVATIONS FOR ALL BUILDINGS.
- B. SHOW ENTIRE SANITARY SEWER CONVEYANCE SYSTEM INCLUDING THE SIZE TYPE AND INVERT OF ALL PIPES AND MANHOLES. MANHOLES SHALL INCLUDE "X" AND "Y" COORDINATES.
- C. SHOW ENTIRE POTABLE WATER SYSTEM INCLUDING THE SIZE AND TYPE OF ALL PIPES AND LOCATIONS OF APURTANCES.
- D. SHOW ENTIRE FIRE WATER SYSTEM INCLUDING THE SIZE AND TYPE OF ALL PIPES AND LOCATIONS OF APURTANCES.
- E. SHOW ENTIRE STORM WATER CONVEYANCE SYSTEM INCLUDING THE SIZE TYPE AND INVERT OF ALL PIPES, CHANNELS, ROOF DRAIN SYSTEMS, STRUCTURES, CURBS AND SPOT SIGHT ELEVATIONS IN VEHICLE USE AREAS. DRAINAGE STRUCTURES SHALL INCLUDE "X" AND "Y" COORDINATES.
- F. SHOW ALL SIDEWALK AND VEHICLE USE AREAS. PROVIDE ADEQUATE SPOT ELEVATIONS TO VERIFY ADA COMPLIANCE FOR REVIEW BY ENGINEER AND ADA COMPLIANCE REPORT.
- G. SHOW ALL SIDEWALK CONTROL DEVICES INCLUDING SIGNS, SIGNALS, PARKING STRIPPING AND PAVEMENT MARKINGS.
- H. SITE DATA TABLE TO INCLUDE IMPERVIOUS AREAS, URBAN FOREST AREAS, GREEN SPACE AREAS, AND NUMBER OF PARKING SPACES.
- I. POST CONSTRUCTION TREE SURVEY INCLUDING LOCATION, SIZE AND SPECIES OF ALL EXISTING AND NEW TREES INCLUDING URBAN FOREST AND REPLANTED TREES AND IRRIGATION SYSTEMS.
- J. DELINEATE CONSERVATION AND DRAINAGE EASEMENT BOUNDARIES AND LABEL WITH THE "OR" BOOK AND PAGE NUMBER.
- K. POST DEVELOPMENT SITE DATA TABLE INCLUDING IMPERVIOUS AREA, URBAN FOREST AREA, GREEN SPACE AREA, NUMBER OF STANDARD PARKING STALLS, NUMBER ADA PARKING STALLS PROVIDED.
- L. DELINEATE ALL UTILITIES CAPPED WITH "X" "Y" "Z" COORDINATES.
- M. ANY ADDITIONAL ITEMS REQUIRED BY PERMITTING JURISDICTION.

DESIGN STANDARDS:

1. THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, UNLESS OTHERWISE NOTED.
2. THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
3. 2023 FLORIDA BUILDING CODES, 8TH EDITION.
4. FLORIDA STORMWATER EROSION AND SEDIMENTATION CONTROL INSPECTORS MANUAL, LATEST EDITION.
5. INLET BEACH WATER SYSTEM STANDARD DESIGN AND CONSTRUCTION SPECIFICATIONS, LATEST EDITION.

CONSTRUCTION SEQUENCE:

1. CONSTRUCT EROSION AND SEDIMENT CONTROL PRACTICES AS DESCRIBED IN THE APPROVED EROSION CONTROL PLAN.
2. ESTABLISH MAINTENANCE OF TRAFFIC PLAN WITH PARK MANAGER.
3. CONTRACTOR SHALL PROVIDE CONSTRUCTION SEQUENCE TO FDEP, PARK MANAGER, ENGINEER AND ARCHITECT.
4. DESIGNATE EMPLOYEE PARKING AREAS, MATERIALS STORAGE AREAS, AND TOPSOIL STORAGE AREAS.
5. CONSTRUCT ALL IMPROVEMENTS AS INDICATED IN THE PLANS AND SPECIFICATIONS.
6. REMOVE ALL STOCKPILE FROM SITE, INSTALL LANDSCAPING. SOD ALL DISTURBED AREAS.
7. PRIOR TO FINAL CLOSE-OUT, THE CONTRACTOR SHALL FURNISH THE ARCHITECT, ENGINEER AND THE OWNER'S PROJECT MANAGER WITH SIGNED AND SEALED COPIES OF THE AS-BUILT SURVEY AND A COMPLETE SET OF RECORD DOCUMENTS.
8. FIELD INSPECTION AND CLEAN UP.

ADA COMPLIANCE NOTES:

- THE CONTRACTOR WILL BE HELD ACCOUNTABLE DURING CONSTRUCTION FOR ALL SITE IMPROVEMENTS. COMPLIANCE WITH FLORIDA STATUTES 553.5041 (F.S.), AND THE 2023 FLORIDA BUILDING CODE, ACCESSIBILITY, 8TH EDITION (FBC-A), IS MANDATORY. IF NON-COMPLIANT AT FINAL INSPECTION, CONTRACTOR WILL BE REQUIRED TO MODIFY CONSTRUCTION TO COMPLY WITH F.S. AND FBC-A. THE FOLLOWING ITEMS TAKE PRECEDENCE AND SUPERSEDE OTHER SITE DETAILS ON DRAWINGS:
1. ACCESSIBLE PARKING SPACES SHALL BE LOCATED ON AN ACCESSIBLE ROUTE NO LESS THAN 44" WIDE SO THAT USERS WILL NOT BE COMPELLED TO WALK OR WHEEL BEHIND PARKED VEHICLES EXCEPT BEHIND HIS OR HER OWN VEHICLE. §208.1 AND §202.3, FBC-A AND F.S. 553.5041.
2. ACCESSIBLE PARKING SPACES AND ACCESS AISLES SERVING A PARTICULAR BUILDING SHALL BE LOCATED ON THE SHORTEST ACCESSIBLE ROUTE FROM THE ACCESSIBLE (HYD) PARKING TO AN ACCESSIBLE ENTRANCE. §208.3.1 FBC-A AND F.S. 553.5041(5)(b).
3. ACCESSIBLE PARKING SPACES SHALL BE 12' WIDE , AND OUTLINED WITH BLUE PAINT. §202.2 AND §202.6, FBC-A
4. ACCESS AISLES REQUIRED ADJACENT TO PARKING SPACES SHALL BE 5' WIDE WITH DIAGONAL STRIPPING. §202.2, FBC-A
5. ACCESSIBLE PARKING AND ACCESS AISLES SHALL BE LEVEL (NOT TO EXCEED 1:48) ON A STABLE FIRM & SLIP RESISTANT SURFACE. RE: §302.1, §202.3, FBC-A
6. ACCESSIBLE PARKING SIGNS SHALL BE FOOT APPROVED AND SHALL READ "PARKING BY DISABLED PERMIT ONLY" AND SHALL INDICATE A \$250 FINE FOR ILLEGAL USE. INSTALL SIGNS A MINIMUM 60"(INCHES) FROM THE GROUND TO THE BOTTOM OF THE SIGN(S). RE: §202.6 AND F.S. 553.5041.
7. CURB RAMPS SHALL NOT EXCEED 1:12 SLOPE, AND CURB RAMP FLARES SHALL NOT EXCEED 1:10 SLOPE. CURB RAMPS AND FLARED SIDES SHALL NOT ENCRUMB UPON PARKING SPACES, ACCESS AISLES, OR VEHICULAR TRAFFIC LANES. THE COUNTER SLOPE OF ADJACENT ROAD SURFACES & GUTTERS SHALL NOT EXCEED 1:20. RE: §405.2, §406, FBC-A
8. CURB RAMPS SHALL HAVE A LANDING WITH A MINIMUM CLEAR LENGTH OF 36" SHALL BE LOCATED AT THE TOP SIDE OF EACH CURB RAMP, A CLEAR WIDTH AT LEAST AS WIDE AS THE CURB RAMP (EXCLUDING FLARED SIDES) LEADING TO IT. EXCEPTION: FOR ALTERATIONS, WHERE THERE IS NO LANDING, CURB RAMP FLARES SHALL BE PROVIDED, AND SHALL NOT BE STEEPER THAN 1:12 SLOPE. RE: §406, FBC-A
9. ALL RAMPS WITH A RISE GREATER THAN 6" SHALL PROVIDE EDGE PROTECTION COMPLYING WITH §405.9 FACBC. RAMPS SHALL HAVE 60" MIN LEVEL LANDINGS AT THE TOP & BOTTOM. RE: §405.7, FBC-A
10. ALL RAMPS WITH A RISE GREATER THAN 6" SHALL PROVIDE EDGE PROTECTION COMPLYING WITH §405.9 FACBC. RAMPS SHALL HAVE 60" MIN LEVEL LANDINGS AT THE TOP & BOTTOM. RE: §405.7, FBC-A
11. ACCESSIBLE ROUTES TO "MAIN ENTRY" FROM AN ACCESSIBLE PARKING SPACE, AND FROM THE "PUBLIC WAY", SHALL NOT EXCEED 1:20 SLOPE (UNLESS RAMPS, HANDRAILS WITH PROPER EXTENSIONS ARE PROVIDED) WITH CROSS SLOPE NOT IN EXCESS OF 1:48. RE: §202.6 AND §403, FBC-A.
12. CONNECT BUILDINGS WITHIN THE SAME SITE WITH AN ACCESSIBLE ROUTE WHICH SHALL NOT EXCEED 1:120 SLOPE (UNLESS RAMPS AND HANDRAILS ARE PROVIDED) AND A MAXIMUM CROSS SLOPE OF 1:48. RE: §206 FBC-A.

PROJECT SPECIFIC NOTES:

1. SHOP DRAWINGS FOR THE PICNIC PAVILIONS, ADA FLOATING KAYAK LAUNCH, NEW SIGNS, GRINDER PUMP STATION, PIPES, VALVES, DRAINAGE STRUCTURES AND ANY OTHER ITEMS LISTED IN THE SPECIFICATIONS SHALL BE SUBMITTED TO THE E.O.R. FOR APPROVAL.
2. POWELL LAKE IS AN OUTSTANDING FLORIDA WATER (OFW), ALL DUE CAUTION SHALL BE TAKEN TO PREVENT STORMWATER FROM CARRYING SEDIMENT INTO THE LAKE.
3. IF SHORELINE CONSTRUCTION IS TO OCCUR DURING TURTLE NESTING SEASON (MARCH-OCTOBER), A PRE-CONSTRUCTION SURVEY OF THE SHORELINE SHALL BE DONE TO CONFIRM THAT NO SEA TURTLE NESTS ARE PRESENT IN THE AREA OF IMPACT.
4. IT IS RECOMMENDED THAT SHORELINE CONSTRUCTION AVOID SHOREBIRD NESTING SEASON (MAY-JUNE).
5. BRUSH FINISH ALL CONCRETE SURFACES (UNLESS POROUS CONCRETE IS SPECIFIED).
6. CONTRACTOR TO SUBMIT SHOP DRAWINGS OF THE PICNIC PAVILION(S), UTILITY PARTS AND OTHER PICNIC AREA ACCESSORIES PRIOR TO ORDERING.
7. ALL SEWER AND WATER UTILITY WORK MUST COMPLY WITH INLET BEACH WATER SYSTEM STANDARD DESIGN AND CONSTRUCTION SPECIFICATIONS, UNLESS NOTED OTHERWISE ON THE PLANS.
8. THE DESIGNATED MAINTENANCE OF TRAFFIC (MOT) TECHNICIAN SHALL NOTIFY ENGINEER OF RECORD AND SUBMIT THEIR INFORMATION TO THE FOOT REGULATING OFFICE PRIOR TO COMMENCEMENT OF WORK IN THE RIGHT-OF-WAY.

LISA WARD
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SURVEY LEGEND & ABBREVIATIONS:

- ▷ = BACKFLOW PREVENTER [W] = WATER METER
- h = BENCH [X] = UTILITY VALVE
- ⊙ = BUSH -BF0- = BURIED FIBER OPTIC LINE
- [P] = TELEPHONE PEDESTAL -BT- = BURIED TELEPHONE LINE
- Ⓢ = DRAINAGE MANHOLE -G- = GAS MAIN
- Ⓡ = FIRE HYDRANT -OE- = OVERHEAD UTILITY LINE
- ↓ = GUY ANCHOR -WM- = WATER LINE
- Ⓢ = UTILITY POLE -NPW- = RECLAIM WATER LINE
- Ⓢ = NON-TRAFFIC SIGN [T] = TREE LINE
- ⊙ = TEST HOLE [M] = UTILITY MARKER
- Ⓢ = TRAFFIC SIGN [M] = UTILITY MARKER

BUREAU OF DESIGN AND CONSTRUCTION GENERAL NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR INSPECTING AND ACCEPTING THE EXISTING CONDITIONS OF THE SITE PRIOR TO BIDDING.
2. ALL DISTURBED AREAS WITHIN THE LIMITS OF RESTORATION SHALL BE REVEGETATED AS SPECIFIED BY THE PARK SERVICE BIOLOGIST.
3. EXISTING UNDERGROUND UTILITIES SHOWN ARE BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL ENSURE THAT THE UTILITY SYSTEMS DO NOT CONFLICT WITH THE PROPOSED PROJECT. CONFLICTS SHALL BE REPORTED TO THE PROJECT MANAGER IMMEDIATELY.
4. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES. REMOVAL AND/OR RELOCATION OF EXISTING UTILITIES IN CONFLICT WITH THE WORK, CONSTRUCTION OF TEMPORARY UTILITIES IN THE EVENT THE EXISTING UTILITY SERVICE MUST BE INTERRUPTED AND ANY OTHER CONSTRUCTION RELATED ACTIVITIES THAT MAY AFFECT EXISTING OR PROPOSED UTILITIES. THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UTILITIES IS BASED ON INFORMATION PROVIDED BY THE UTILITY OWNERS, AVAILABLE RECORDS, AND SURVEYED FIELD INFORMATION. THE INFORMATION MAY NOT REFLECT ACTUAL CONDITIONS, INCLUDE ALL UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED, OR SHOW THE UTILITIES IN THE CORRECT HORIZONTAL OR VERTICAL LOCATIONS. THE CONTRACTOR WILL MAKE HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS NECESSARY TO ESTABLISH THEIR LOCATIONS AND AVOID DAMAGE.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING ALL GRADE STAKES, LINES AND LEVELS.
6. THE CONTRACTOR SHALL SOLID SOD ALL DISTURBED AREAS UNLESS OTHERWISE SPECIFIED OR SHOWN.
7. NO SEPARATE PAYMENT WILL BE MADE FOR DETERMINING. THE COSTS FOR DETERMINING ARE INCLUDED IN THE UNIT PRICES FOR CONSTRUCTING THIS PROJECT.
8. ALL AREAS, STREETS, DRIVEWAYS, PARKING LOTS, ETC. DISTURBED BY CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL OR BETTER CONDITION.
9. THE CONTRACTOR WILL HAVE ALL REQUIRED PERMITS IN-HAND PRIOR TO BEGINNING CONSTRUCTION, AND WILL PERFORM ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE PERMITS OBTAINED BY THE OWNER AND THOSE PERMITS OBTAINED BY THE CONTRACTOR.
10. PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR WILL SUBMIT TO THE OWNER'S PROJECT MANAGER A SCHEDULE OF VALUES, A CONSTRUCTION SCHEDULE, AND A SAFETY PLAN.
11. THE CONSTRUCTION SCHEDULE WILL DESCRIBE IN DETAIL HOW THE CONSTRUCTION IS TO BE PHASED, ESTABLISH START AND FINISH DATES FOR ALL SIGNIFICANT CONSTRUCTION ACTIVITIES, AND IDENTIFY ALL CONTROLLING ITEMS OF WORK. THE SCHEDULE IS TO BE APPROVED BY THE OWNER'S PROJECT MANAGER, AND WILL BE UPDATED ON A MONTHLY BASIS TO REFLECT ACTUAL WORK PROGRESS. PAYMENT FOR PREPARING, UPDATING AND SUBMITTING THE SCHEDULE WILL BE INCLUDED IN THE PAY ITEM FOR MOBILIZATION OR OTHER PAY ITEMS AS APPROPRIATE.
12. THE CONTRACTOR SHALL SUBMIT AN EROSION CONTROL PLAN FOR APPROVAL BY THE OWNER'S PROJECT MANAGER AND WILL ADDRESS THE INSTALLATION AND MAINTENANCE OF ALL TEMPORARY AND PERMANENT SEDIMENT AND EROSION CONTROL DEVICES TO BE USED DURING EACH PHASE OF CONSTRUCTION, INCLUDING TREE REMOVAL, CLEARING AND GRUBBING, EXCAVATION, HAULING OF EXCAVATED MATERIALS, AND PLACEMENT OF EMBANKMENT AND BACKFILL. THE PLAN ALSO WILL DETAIL THE EROSION CONTROL MEASURES TO BE EMPLOYED AT ALL STOCKPILE AND CONSTRUCTION STAGING AREAS AND WILL DEFINE THE MAXIMUM LIMITS OF ALL ACTIVE CONSTRUCTION ZONES.
13. ANY NATIONAL GEODETIC SURVEY MONUMENT WITHIN THE LIMITS OF CONSTRUCTION MUST BE PROTECTED. IF IN DANGER OF DAMAGE, THE CONTRACTOR WILL IMMEDIATELY NOTIFY THE PROJECT MANAGER AND: FDEP, BUREAU OF SURVEY AND MAPPING, MS 105 3900 COMMONWEALTH BLVD. TALLAHASSEE, FLORIDA 32399 (850) 245-2606 (OFFICE) (850) 245-2645 (FAX)
14. PRIOR TO ANY SCHEDULED INTERRUPTION OF UTILITY SERVICE, THE CONTRACTOR WILL COORDINATE SUCH INTERRUPTION WITH THE UTILITY PROVIDER AND WILL PROVIDE A MINIMUM 24-HOUR NOTICE TO THE AFFECTED PARTIES. THE CONTRACTOR WILL NOTIFY THE ELECTRIC UTILITY A MINIMUM OF TWO WEEKS PRIOR TO CONSTRUCTION IN THE VICINITY OF THEIR FACILITIES.
15. NO TRENCHES WILL BE ALLOWED TO REMAIN OPEN OVERNIGHT.
16. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF VEGETATION ON AND ADJACENT TO THE PROJECT SITE, AND WILL BE SOLELY LIABLE FOR DAMAGE TO VEGETATION ADJACENT TO CONSTRUCTION WORK ZONES. ALL TREES WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE PROTECTED EXCEPT THOSE TREES IDENTIFIED ON THE PLANS TO BE REMOVED. ALL TREES OUTSIDE THE CONSTRUCTION WORK ZONE ARE TO BE PROTECTED TO THE MAXIMUM EXTENT PRACTICABLE. TREE BARRICADES WILL BE INSTALLED AND MAINTAINED AROUND ALL TREES TO BE PROTECTED AS SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE PROJECT MANAGER.
17. THE CONTRACTOR IS RESPONSIBLE TO PLACE AND MAINTAIN ROADSIDE WARNING SIGNS WHEN WORK IS BEING CONDUCTED IN THE PROPERTY RIGHT OF WAY OR WHEN MACHINERY IS ENTERING AND LEAVING THE PROJECT SITE.
18. THE CONTRACTOR IS RESPONSIBLE FOR DISPOSAL OF EXCAVATED MATERIAL OFF-SITE UNLESS OTHERWISE DIRECTED BY THE PROJECT MANAGER.
19. ENSURE THAT ALL EQUIPMENT, PRIOR TO BRINGING ON-SITE, IS WASHED AND FREE OF SOIL, SEED, OR OTHER ORGANIC MATTER. EQUIPMENT MAY BE INSPECTED BY THE OWNER'S REPRESENTATIVE PRIOR TO OFF-LOADING FOR USE. ADDITIONAL CLEANING WILL BE PERFORMED BY THE CONTRACTOR IF THE OWNER'S REPRESENTATIVE DETERMINES IT IS NEEDED.

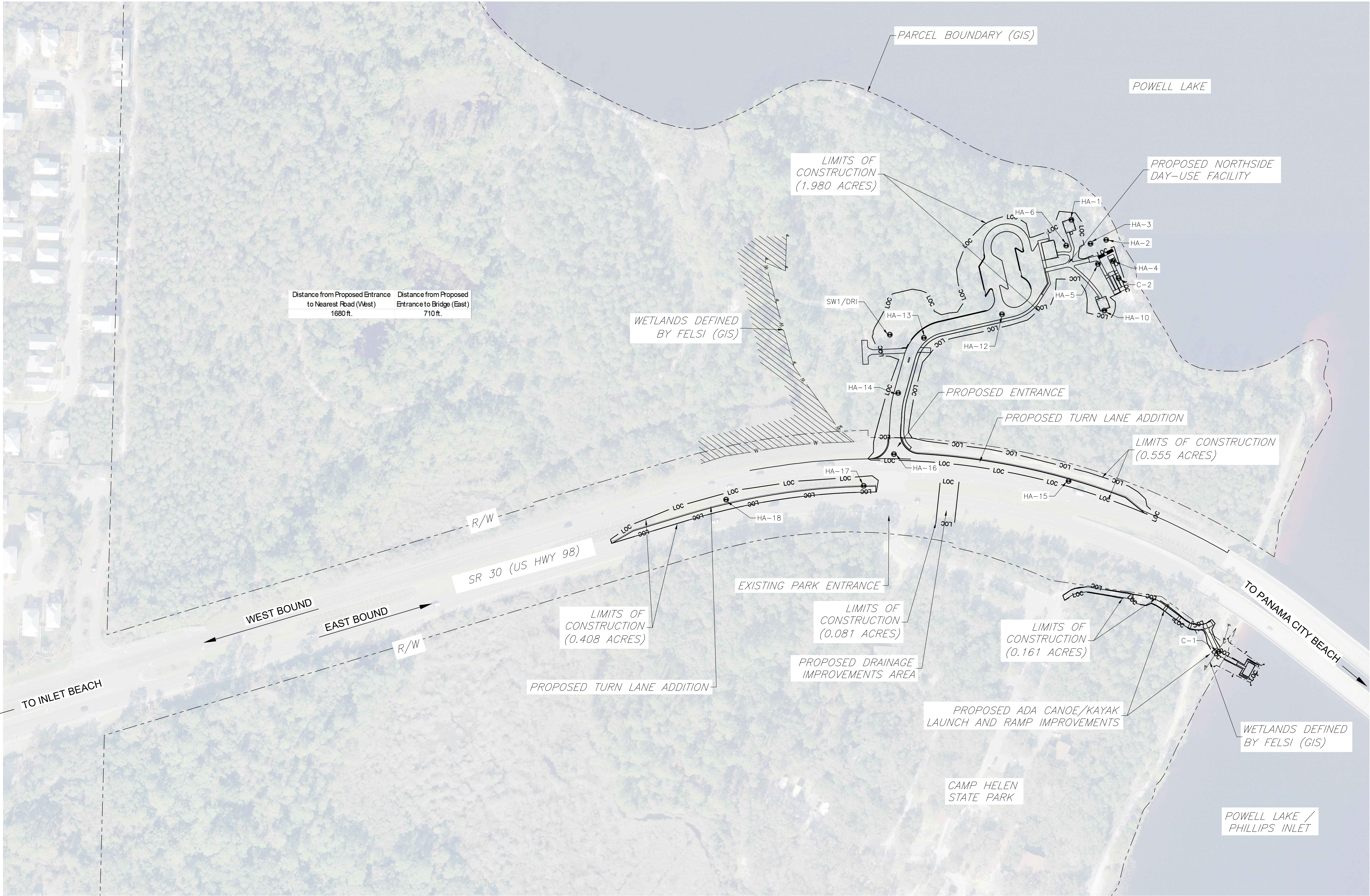
EROSION CONTROL NOTES:

1. ALL EROSION AND SEDIMENTATION CONTROLS SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
2. ALL EROSION AND SEDIMENTATION CONTROLS SHALL BE INSPECTED DAILY AND REPAIRS MADE AS NECESSARY TO ENSURE THE PROPER AND CONTINUED FUNCTION OF THE CONTROL(S).
3. ALL EROSION AND SEDIMENTATION CONTROL SHALL REMAIN IN PLACE UNTIL A PERMANENT VEGETATIVE COVER HAS BEEN ESTABLISHED.
4. UNDER NO CIRCUMSTANCES SHALL SEDIMENTS BE PERMITTED TO EXIT THE PROJECT LIMITS, INCLUDING TRACKING BY VEHICLES ONTO PAVED ROADWAYS. THE CONTRACTOR SHALL MAKE IMMEDIATE REPAIRS OR ENHANCEMENTS TO ANY EROSION CONTROL SYSTEM THAT ALLOWS THE RELEASE OF SEDIMENTS.

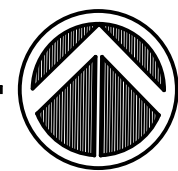
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A	Area or Amperes	Fig.	Figure
AAA	American Automobile Association	Fin.	Finish
ABC	Asphalt Base Course	FIR	Found Iron Rod
Abd.	Abandoned	Flex	Found Iron Pipe
ABS	Acrylonitrile-Butadiene-Styrene Pipe	FLX	Flexible
Ac.	Acres	FNL	Found Nail & Cap
Asph. Conc.	Asphaltic Concrete	FNC	Found Nail
Accel.	Acceleration	FOC	Fiber Optics Cable
Act.	Activated	FTM or fpm	Feet Per Minute
ADA	The Americans With Disabilities Act	FPS	Feet Per Second
Adh.	Adhesive	FR or Fr.	Frame
Adj.	Average Daily Traffic	Frang.	Frangible
AADT	Annual Average Daily Traffic	Frq.	Frequency
Agg.	Aggregate	F.S.	For Side, Florida Statutes
Al.	Aluminum	FOC	Foot or Feet
Alt.	Alternate	FTB	Floating Turbidity Barrier
ANSI	American National Standards Institute	Fut.	Future
AOS	Apparent Opening Size	Gdv.	Galvanized
Appl.	Applied, Application	Ga.	Gauge or Gage
Approx.	Approximate	Ga. / Gal.	Gallon
Artif.	Artificial	GD	Gutter Drain
Asph.	Asphalt	GP	Galvanized Iron Pipe
Assem.	Assembly	GM	Gas Main
Assn.	Association	GP	Gas Point
Assoc.	Associate, Association	Gr.	Grade, Ground or Grate
ASTM	American Society For Testing Materials	Grc	Gr. or Grc.
ATPS	Asphalt Treated Permeable Base	GRC	Galvanized Rigid Steel Conduit
Attn.	Attention	Grnd.	Ground
Attnuadr.	Attenuator	gross km	Gross Kilometer
Aux.	Auxiliary	Gv. Wt.	Gross Weight
AWG	American Wire Gauge	Gtr.	Gutter
AW	American Welding Society	Gr.	Gray
Az	Azimuth	HAR	Highway Advisory Radio
B to B	Back to Back	HB	Hay Bales
Bd. or Bnd.	Board or Bonded	HC	Horizontal Clearance
BE	Buried Electric	HD	High Density or Heavy Duty
Be.	Begin	Hd or Hd.	Head
Bit.	Bituminous	Hdw.	Headwall
Bl.	Block	Hdrd.	Horizontal
BL, BLC	Base Line, Base Line Control	Hr.	High Pressure or Horsepower
Bldg.	Building	HS	High Strength
Bldg.	Bulkhead	HSHV	High Strength Horizontal Vertical
BLVD	Boulevard	Ht.	Height
Bm	Bench Mark	HW or H.W.	High Water or Hot Water
Bndry	Boundary	Hwy.	Highway
Bdr.	Border	Hyd.	Hydant or Hydraulic
Bot.	Bottom	Id.	Inside Diameter or Identification
Bo.	Boiler Outlet	IMC	Intermediate Metal Conduit
BOS	Beginning Of Survey	Inc.	Included
Br.	Bridge	Incl. or Inc.	Included
Brk.	Breakdown	Inv.	Industry or Industrial
Brkwy.	Buried Telephone Cable or Duct	Inv. or Inv.	Invert
BT	Buried Telephone Cable or Duct	IP	Iron Pipe
BW	Barbed Wire, Bottom Width or Both Ways	Instal.	Installed
C/G	Coarse Aggregate	Inter.	Intersection
CA	Corrugated Aluminum Pipe	IR	Iron Rod
CAP	Capital Letters	IT	Institute Of Transportation Engineers
Caps.	Corrugated Aluminized Steel Pipe	J	Joint
CATV	Cable Television	JL	Junction Box
CB	Catch Basin	Jct.	Junction
CBC	Concrete Box Culvert	KB	Kilogram Per Square Meter
CBS	Concrete Box Structure	Kg/m	Kilogram Per Meter
CC, C/C.	Center to Center, Crash Cushion	Kg/m2	Kilogram Per Square Meter
CCM	Center to Center Each Way	Kilo	One Thousand
CD	Cross Drain, Cross Direction (Geotextiles)	Kn	Knot
Cem.	Cemetery	L	Length, Length Of Curve, Litter, Left
CFS	Cubic Feet Per Second	L.	Latitude or Longitude
CI	Cast Iron Pipe	Lat.	Latitude
CIP	Cast In Place	Lb.	Pound
cl or circ.	Circle or Circular	Lb. / Sq.Yd	Pounds Per Square Yard
clrc.	Circumference	LBR	Limerock Bearing Ratio
CL or Clear	Clearance	LC	Long Chord
CL	Center Line	Lin.	Linear
CM	Concrete Monument	Lum.	Luminaire
CMB	Concrete Median Barrier	Unmk.	Limerock
CMP	Corrugated Metal Pipe	LOS	Limit Of Clear Sight
OMPA	Corrugated Metal Pipe Arch	Loc., LO	Location
CO	Clean Out	Long.	Longitude
Col.	Column	Long.	Length Of Spiral
Conc.	Concrete	LT	Left Turn
Const.	Construct or Construction	LT	Left
Cont.	Continuation	Ltd.	Limited or Limited
Contr.	Contractor	Lum.	Luminaire
Coord.	Coordinate	L/W	Lightweight
Corr.	Corrugated	Maint.	Maintenance
CPE	Corrugated Polyethylene Pipe	Mat.	Material
Crs. or Cse.	Course	Max.	Maximum
CS	Curve To Spiral	Med.	Median
CSP	Corrugated Steel Pipe	MES	Mitered End Section
CT	Clean Truck	Mfg.	Manufactured or Manufacturer
CTPB	Cement Treated Permeable Base	MH, M.H.	Manhole, Mounting Height
Cur.	Culvert	Mi.	Mile
CY	Cubic Yard	Mid.	Middle
		Min.	Minimum or Minute
		Misc.	Miscellaneous
		M.L.W	Mean Low Water
		Mob.	Mobilization
		Mod.	Modify or Modified
		Mon.	Monument
		MOT	Maintenance Of Traffic
		MSL	Mean Sea Level
		Mtd.	Mounted
		MUTCD	Manual On Uniform Traffic Control Device
		MUTS	Manual On Uniform Traffic Studies
		N	North or Newton
		N/A	Not Available or Not Applicable
		NAD	National American Vertical Datum
		NC	National Course or Normal Crown
		NEMA	National Electrical Manufacturers Association
		NGVD	National Geodetic Vertical Datum of 1929
		NHS	National Highway System
		NHW	Normal High Water
		NIC	Not In Contact
		NTS	Not To Scale
		NW	Northwest
		Opass	Overpass
		O to O,	Out to Out
		Overall	Overall
		O.B.G.	Optional Base Group
		OC or O.C.	On Center
		OD or O.D.	Outside Diameter
		OE	Overhead Electric
		Eng.	Engineer
		Opt.	Option, Optional or Optically
		OT	Overhead
		OT	Overhead Telephone
		Quint	Quint
		P	Passenger Car & Light Delivery Truck
		Part.	Participation or Partition
		Pavt.	Pavement
		PC	Point Of Curvature
		PE	Professional Engineer
		Ped	Pedestrian or Pedestal
		Pen.	Penetration
		PG	Profile Grade
		PGL	Profile Grade Line
		pH	Measure of Acidity or Alkalinity
		pt	Point of Intersection
		PL or P L	Property Line or Plate
		PB	Point of Beginning
		POC	Point Of Commencement
		POST	Point On Semi-Tangent
		POT	Point Of Tangent
		PRC	Point Of Reverse Curvature
		Presd.	Prestressed
		Prob.	Probability
		Prod.	Product, Production, Product Owner or Productive
		Prodr.	Productive

S:\CHSRON December 30, 2024, 10:24:58 loc camp helen state park\Drawings\CV\02 General Notes - signature-Location map\001 Project Location Map.dwg

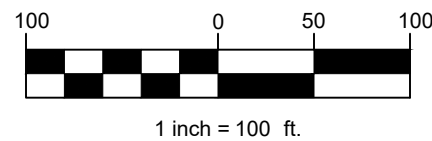


Distance from Proposed Entrance to Nearest Road (West)	Distance from Proposed Entrance to Bridge (East)
1680 ft.	710 ft.



PROJECT LOCATION MAP

SCALE: 1" = 100'



LINETYPE LEGEND	
W	WETLAND LINE
LOC	LIMITS OF CONSTRUCTION
●	GEOTECHNICAL BORINGS

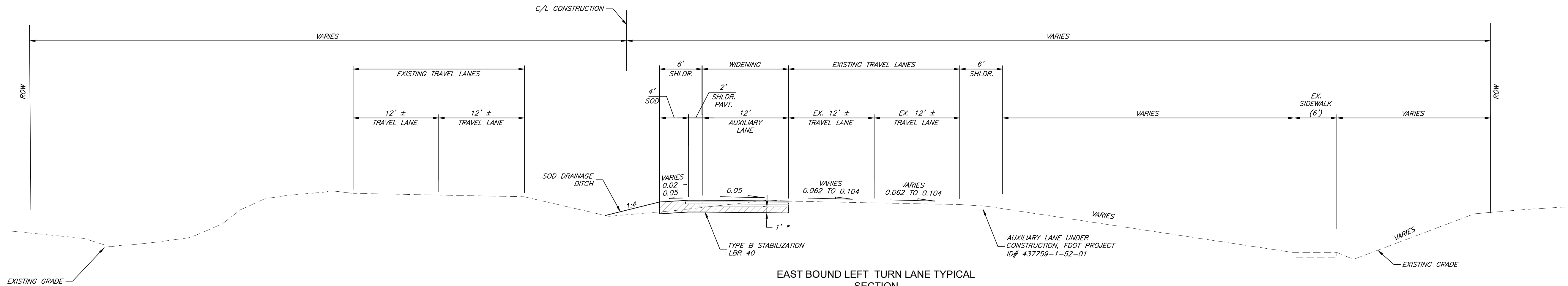
CAMP HELEN STATE PARK	PROFESSIONAL REGISTRATION	
	JAMES H. PETERSON, P.E. # 88485 State of Florida	
SHEET TITLE	PROJECT LOCATION MAP	
PROJECT TITLE	PARK IMPROVEMENT	
SHEET NO.	C004	

DESIGNER: SWU	ISSUE DATE: 11/11/2024	100% PLANS	REVISION	SYMBOL	DATE
DRAWN BY: KOP	COMP. FILE No.: 21-5486	STATE PROJECT No.: 61307C-N3803			
REVIEWED BY: JHP					

George & Associates Consulting Engineers, Inc. CIVIL - ENVIRONMENTAL - LANDSCAPE ARCHITECTURE - SURVEYING - LAND USE 1907 Commonwealth Lakeside Drive, Suite 200, Tallahassee, FL 32303 PHONE: 850/5210344 - FAX: 850/5210345	Department of Environmental Protection Division of Recreation and Parks Bureau of Design and Construction 3900 Commonwealth Boulevard, Tallahassee, FL 32399 (850) 245-2157	

Approved
10/24/2024 191:00044
Lisa Ward
1/30/2025

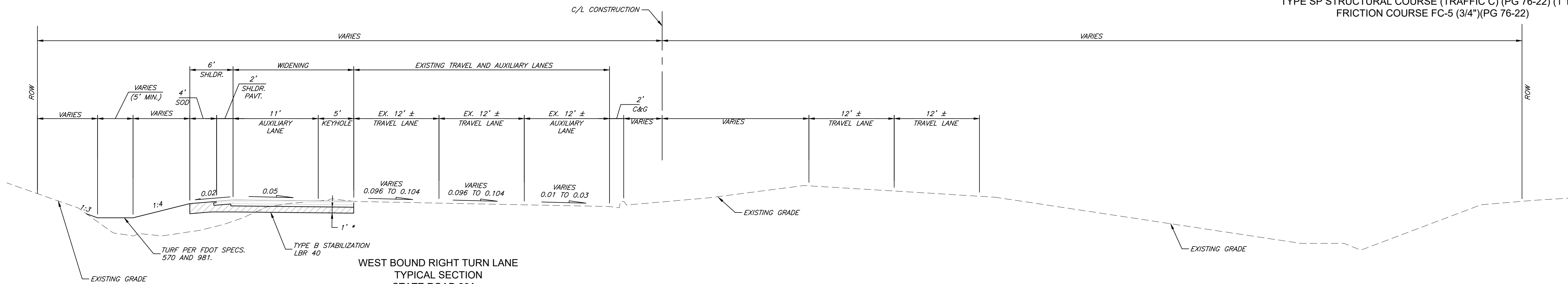
D:\3000 October 31, 2024 11:11\Project\215436 bld camp heli state park\Drawings\Civil\04 Typical Sections\005 Typical Sections.dwg



EAST BOUND LEFT TURN LANE TYPICAL SECTION
STATE ROAD 30A
STA. 143+33.78 TO STA. 148+63.00
(LOOKING EAST)

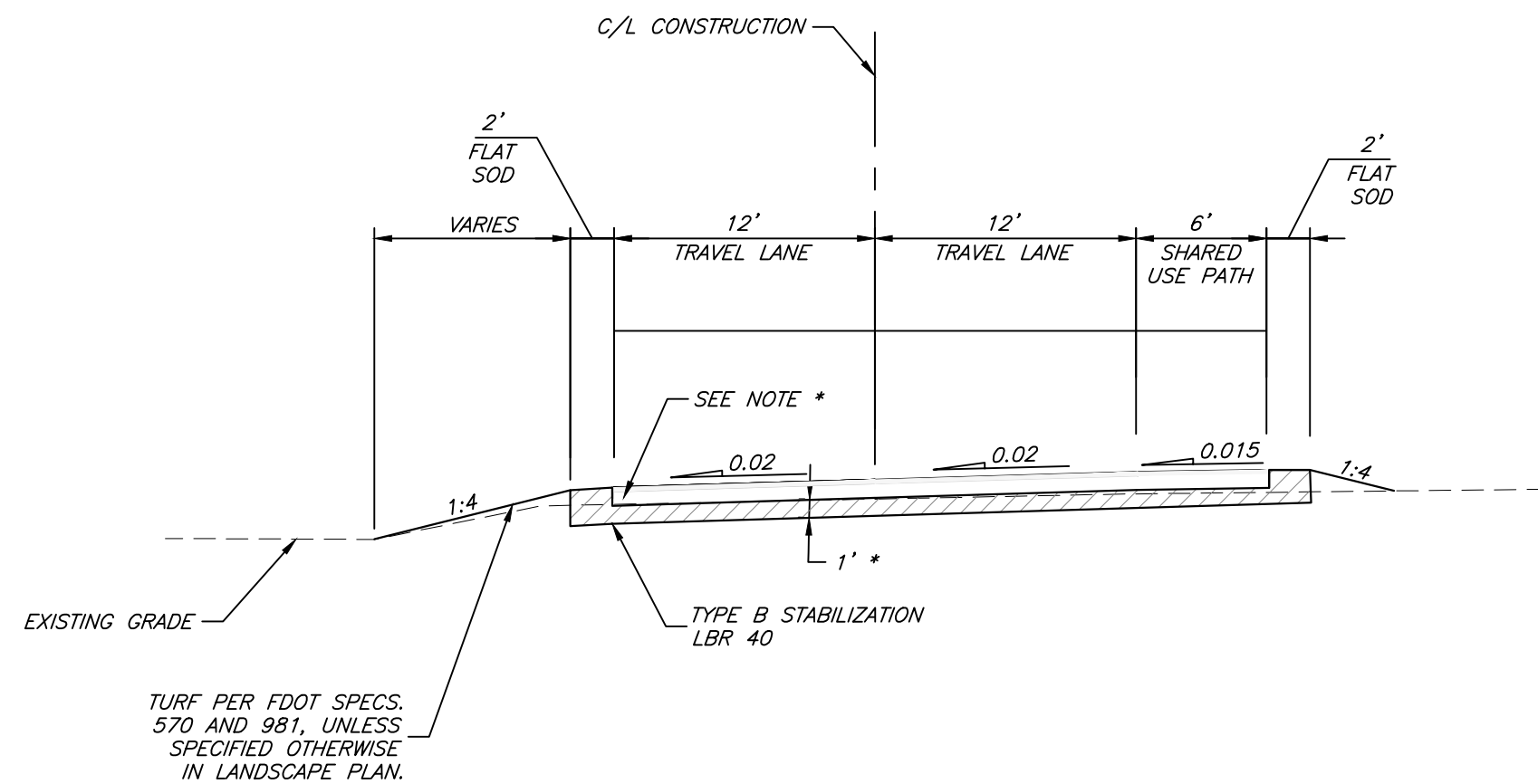
EAST AND WEST BOUND TURN LANES
OPTIONAL BASE GROUP 9
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (PG 76-22) (3")
FRICTION COURSE FC-5 (3/4") (PG 76-22)

SHOULDER PAVEMENT
OPTIONAL BASE GROUP 1
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (PG 76-22) (1 1/2")
FRICTION COURSE FC-5 (3/4") (PG 76-22)

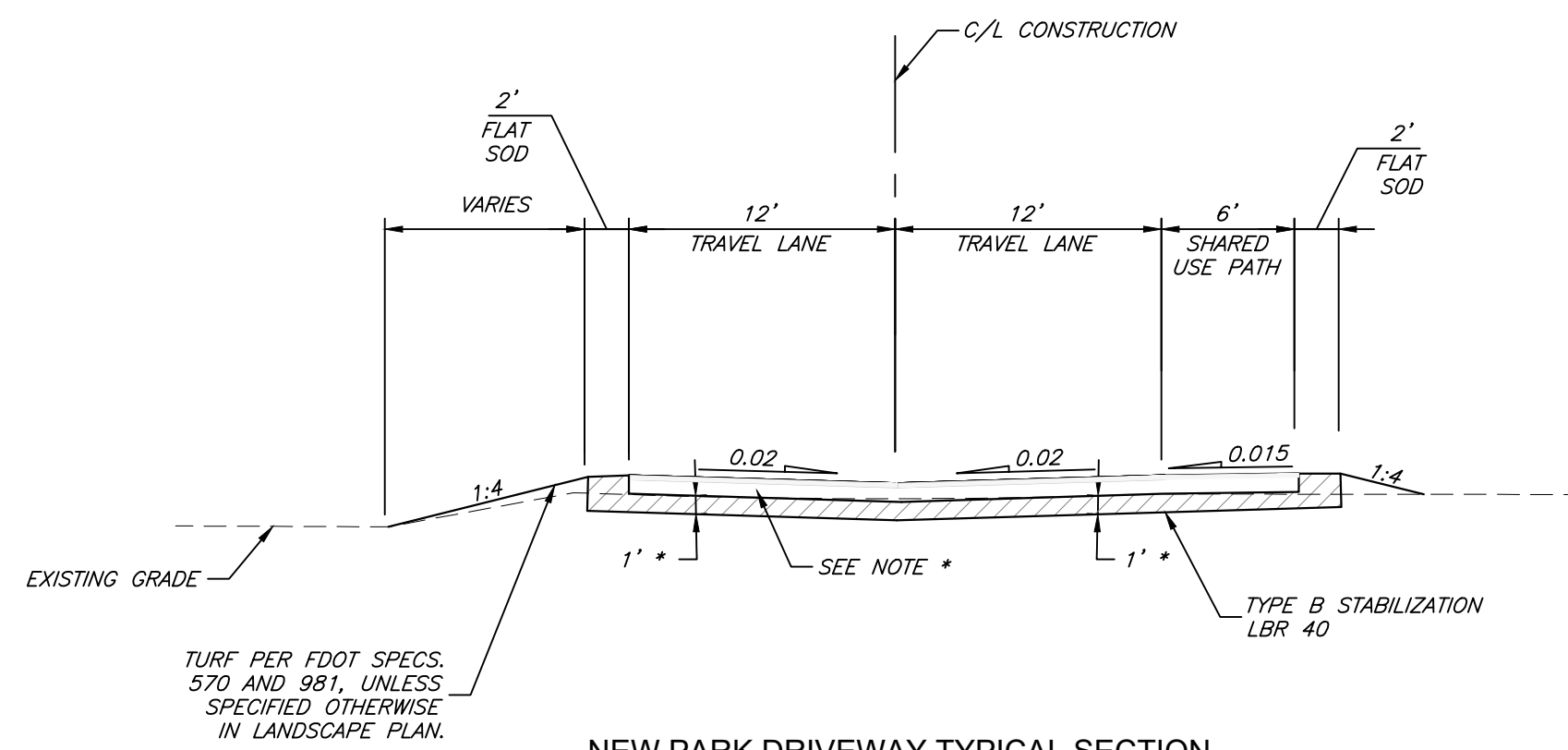


WEST BOUND RIGHT TURN LANE TYPICAL SECTION
STATE ROAD 30A
STA. 149+12.00 TO STA. 153+93.00
(LOOKING EAST)

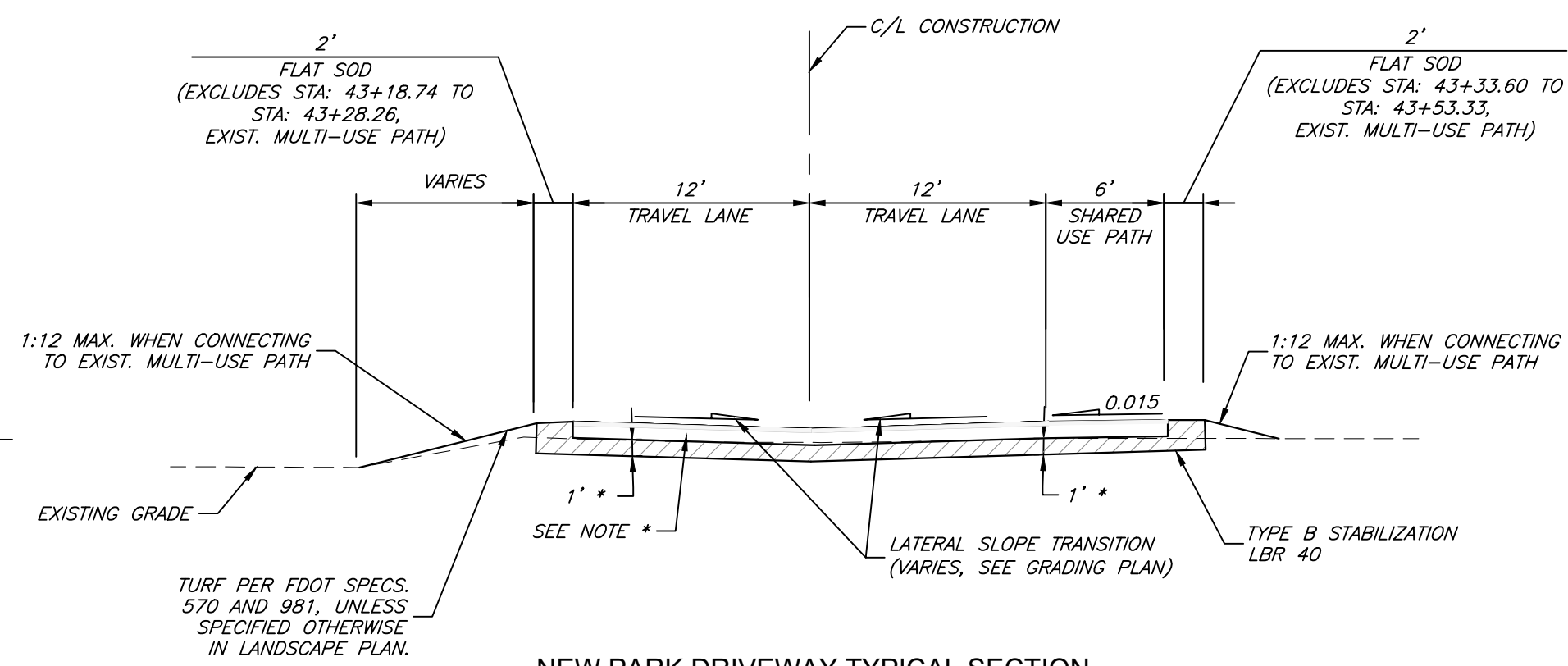
NOTE:
* DRIVEWAY AND PARKING AREA TO HAVE A SP 12.5 ASPHALTIC CONCRETE WEARING SURFACE WITH A MINIMUM THICKNESS OF 2 INCHES. BASE COURSE MATERIAL SHALL BE EITHER LIME ROCK OR GRADED AGGREGATE BASE (GAB) WITH A MINIMUM THICKNESS OF 6 INCHES. THE CONTRACTOR SHALL USE GAB IN LIEU OF LIME ROCK IN ALL AREAS WITHIN 24 INCHES OF WATER TABLE PER FINDINGS OF GEOTECH REPORT.



NEW PARK DRIVEWAY TYPICAL SECTION
OPTIONAL BASE GROUP 4
TYPE SP STRUCTURAL COURSE (TRAFFIC B) (2")
STA. 43+52.00 TO STA. 45+46.00



NEW PARK DRIVEWAY TYPICAL SECTION
OPTIONAL BASE GROUP 4
TYPE SP STRUCTURAL COURSE (TRAFFIC B) (2")
STA. 41+88.34 TO STA. 43+09.05
STA. 43+39.50 TO STA. 43+52.00

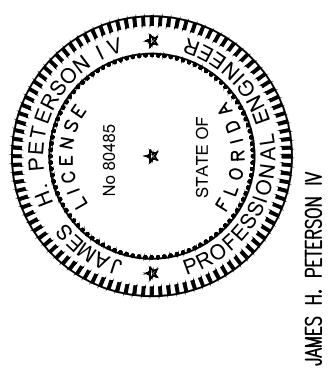


NEW PARK DRIVEWAY TYPICAL SECTION
OPTIONAL BASE GROUP 4
TYPE SP STRUCTURAL COURSE (TRAFFIC B) (2")
STA. 43+09.05 TO STA. 43+39.50

TYPICAL SECTIONS

PRELIMINARY
NOT FOR
CONSTRUCTION

DATE	REVISION	SYMBOL	DATE	REVISION	SYMBOL	ISSUE DATE: 11/11/2024	100% PLANS	COMP. FILE NO. 21-5436	STATE PROJECT NO. 61307C-N3903	DESIGNER: SWU	DRAWN BY: TJM	REVIEWED BY: JHP	CONSULTANT:
Department of Environmental Protection Division of Recreation and Parks Bureau of Design and Construction 3900 Commonwealth Boulevard, Tallahassee, FL 32399 (850) 245-2157										George & Associates Consulting Engineers, Inc. 1907 Commonwealth Lane, Tallahassee, FL 32303 PHONE: 850/5210344 - FAX: 850/5210345			
CAMP HELEN STATE PARK										TYPICAL SECTIONS			
PARK IMPROVEMENT										PARK IMPROVEMENT			
SHEET NO.										C005			



Approved
11/15/2024
11/30/2025

DEMO AND EROSION CONTROL NOTES:

1. THIS SITE MAY CONTAIN EXISTING UTILITY LINES, UTILITY STRUCTURES AND MISCELLANEOUS UTILITY EQUIPMENT THAT MAY NOT HAVE BEEN SURVEYED AND IN CONFLICT WITH PROPOSED CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL UTILITIES WITHIN PROJECT AREA PRIOR TO CONSTRUCTION.
2. ALL UTILITIES MUST REMAIN IN OPERATION THROUGHOUT CONSTRUCTION ACTIVITIES FOR THIS PROJECT. FOR ANY ANTICIPATED DISRUPTION IN SERVICE, COORDINATE WITH OWNER AND UTILITY PROVIDER TWO WEEKS IN ADVANCE.
3. CONTRACTOR TO COORDINATE WITH BDC PROJECT MANAGER, UTILITY PROVIDER(S) AND CIVIL ENGINEER FOR ANY AND ALL UTILITIES THAT MAY BE IN CONFLICT WITH PROPOSED CONSTRUCTION ACTIVITIES.
4. WHERE EXISTING ITEMS SUCH AS ASPHALT, CONCRETE CURB AND GUTTER, ETC. ARE SHOWN TO BE REMOVED, THESE ITEMS SHALL BE SAWCUT.
5. CONTRACTOR TO VERIFY ALL DEPTHS AND LOCATIONS OF EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
6. CONTRACTOR RESPONSIBLE TO ADJUST ALL UTILITIES AND VALVE BOXES TO FINISH GRADE.
7. CONTRACTOR RESPONSIBLE TO DEFLECT ANY UTILITIES NECESSARY TO CONSTRUCT PROPOSED IMPROVEMENTS, PER MANUFACTURED RECOMMENDED TOLERANCES.
8. CONTRACTOR RESPONSIBLE FOR ANY DAMAGE TO EXISTING INFRASTRUCTURE, TREES, LANDSCAPE OR ANY OTHER MISC ITEMS THAT ARE TO REMAIN. CONTRACTOR SHALL RESTORE TO PRE-DEVELOPMENT CONDITION.
9. AN EFFORT HAS BEEN MADE TO IDENTIFY ALL UTILITIES IN THE AREA INCLUDING COORDINATING WITH UTILITY OWNERS. THE DEPICTED UTILITIES SHOULD NOT BE CONSIDERED THE EXTENT OF UTILITIES IN THE PROJECT AREA, AND ALL REQUIRED DUE CAUTION, SUCH AS AN 811 TICKET AND ADDITIONAL QUALITY LEVEL SUE 'A' SURVEY, SHOULD BE TAKEN PRIOR TO EXCAVATION TO VERIFY UTILITY EXTENTS.
10. ALL SIGNAGE WITHIN LIMITS OF CONSTRUCTION THAT WILL BE IMPACTED BY THE WORK SHALL BE REMOVED IN A MANNER THAT DOES NOT DAMAGE THE SIGNAGE OR POSTS. COORDINATE ALL REINSTATEMENT OF SIGNAGE AND LOCATION WITH BDC PROJECT MANAGER AND PARK MANAGER. SIGNAGE TO BE REUSED SHALL BE STORED IN A MANNER THAT IS SAFE AND DOES NOT DAMAGE THE SIGNS. ANY DAMAGED SIGNAGE PROPOSED FOR REUSE SHALL BE REPLACED IN-KIND BY THE CONTRACTOR. BDC PROJECT MANAGER AND PARK MANAGER SHALL APPROVE OF ALL SIGNAGE TO BE REPLACED AND THE PROPOSED LOCATION FOR SIGNAGE. SIGNAGE NOT APPROVED FOR REUSE OR CLAIMED BY THE PARK SHALL BECOME THE CONTRACTOR'S RESPONSIBILITY FOR PROPER DISPOSAL.
11. COORDINATE ALL DEMOLITION ACTIVITIES WITH BDC PROJECT MANAGER AND PARK STAFF. PARK SHALL RETAIN RIGHT OF REFUSAL FOR ANY MATERIAL CALLED OUT FOR DEMOLITION. RETURN IN GOOD WORKING ORDER ANY MATERIALS REQUESTED BY THE BDC PROJECT MANAGER OR PARK STAFF AS SALVAGED MATERIAL. LAWFULLY DISPOSE, AT EXPENSE OF THE CONTRACTOR, ALL REMAINING ITEMS CALLED OUT FOR DEMOLITION.

SEDIMENTATION and EROSION CONTROL LEGEND

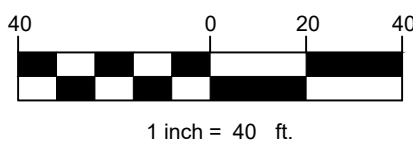
SYMBOL	DESCRIPTION
Fr	FILTER RING
Sd1	SEDIMENT BARRIER
Sd2	INLET SEDIMENT TRAP
St	STORM DRAIN OUTLET PROTECTION
Co	CONSTRUCTION EXIT
Ds2	DISTURBED AREA STABILIZATION WITH SEEDING ONLY
Ds3	DISTURBED AREA STABILIZATION WITH PERMANENT VEGETATION
Ds4	DISTURBED AREA STABILIZATION WITH SODDING
Du	DUST CONTROL ON DISTURBED AREAS
Ch	CHANNEL STABILIZATION
Cr	CONSTRUCTION ROAD STABILIZATION

LEGEND

SB	SEDIMENT BARRIER	TREE TO BE REMOVED
TB	TREE TRUNK PROTECTION	TREE TO BE REMAIN/RECEIVE PROTECTION
?	FLOATING TURBIDITY BARRIER	SOIL BORING TEST HOLE
-----	DEMO UTILITY	
-----	DEMO LANDSCAPING	
-----	DEMO ASPHALT (SAW CUT)	

DEMOLITION AND EROSION CONTROL PLAN

SCALE: 1" = 40'



**PRELIMINARY
NOT FOR
CONSTRUCTION**

CAMP HELEN STATE PARK

DEMOLITION AND EROSION CONTROL PLAN

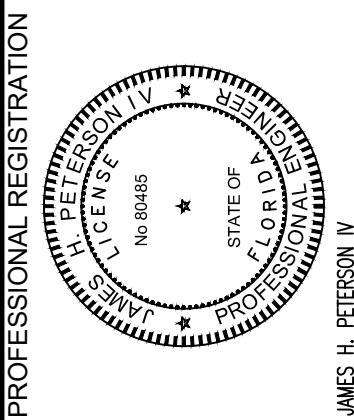
PARK IMPROVEMENT

SHEET TITLE

PROJECT TITLE

SHEET NO.

C201



PROFESSIONAL REGISTRATION

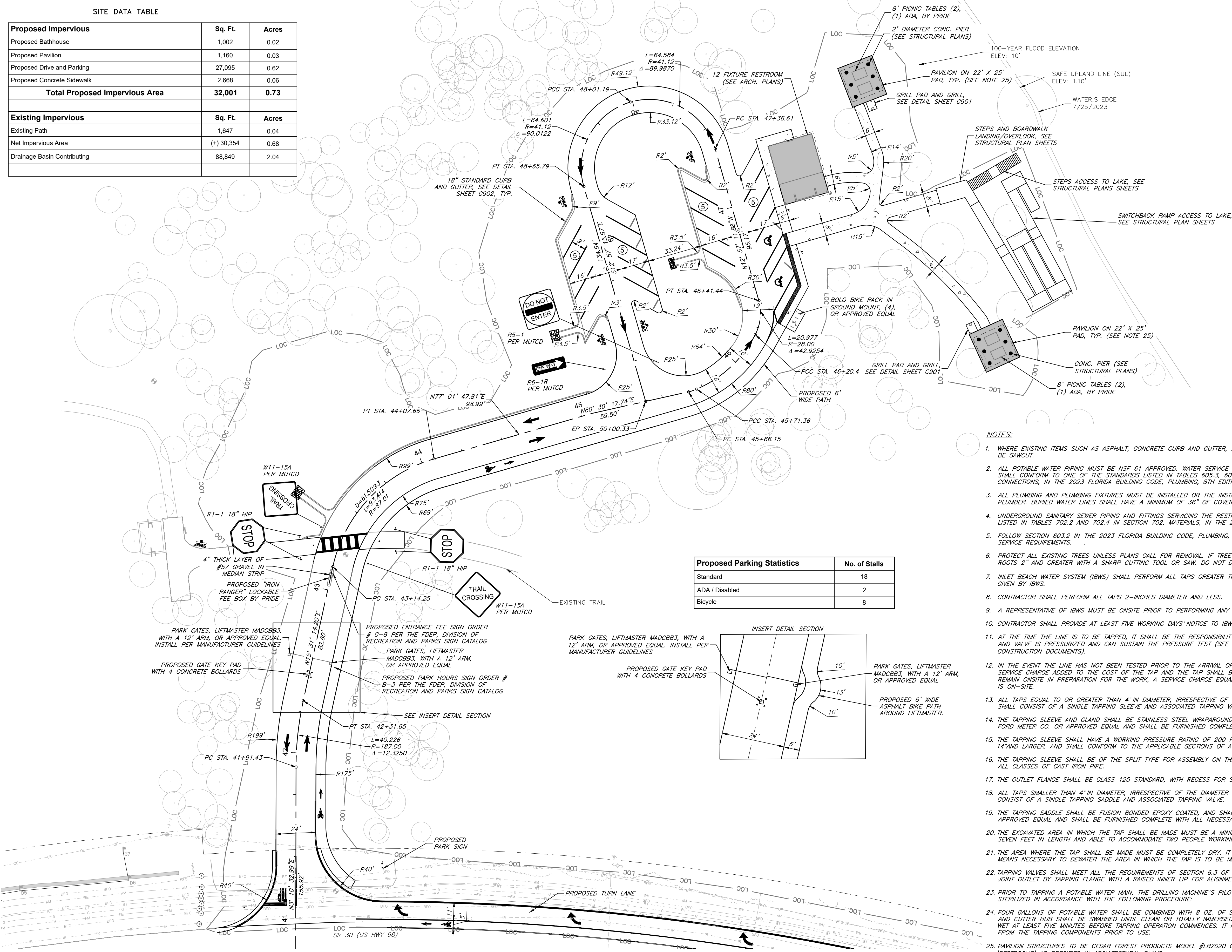
George & Associates
Consulting Engineers, Inc.
1907 Commonwealth Boulevard, Suite 200, Tallahassee, FL 32303
PHONE: 850/5210344 - FAX: 850/5210345

Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3900 Commonwealth Boulevard, Tallahassee, FL 32399 (850) 245-2157

DATE	REVISION	SYMBOL	DATE	REVISION	SYMBOL

ISSUE DATE: 11/11/2024	100% PLANS	COMP. FILE NO. 21-5436	STATE PROJECT NO. 61307C-N3803
DESIGNER: JHM	DRAWN BY: JHM	REVIEWED BY: JHP	

SITE DATA TABLE		
Proposed Impervious	Sq. Ft.	Acres
Proposed Bathhouse	1,002	0.02
Proposed Pavilion	1,160	0.03
Proposed Drive and Parking	27,095	0.62
Proposed Concrete Sidewalk	2,668	0.06
Total Proposed Impervious Area	32,001	0.73
Existing Impervious	Sq. Ft.	Acres
Existing Path	1,647	0.04
Net Impervious Area	(+) 30,354	0.68
Drainage Basin Contributing	88,849	2.04

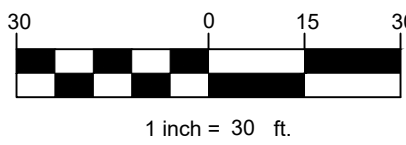


- LEGEND**
- PROPOSED ASPHALT PAVING
 - PROPOSED CONCRETE SIDEWALK
 - PROPOSED BUILDING
 - SUE TEST HOLE
 - YARD HYDRANT
 - BACKFLOW PREVENTER
 - VALVE
 - REDUCER
 - WATER METER
 - VEHICLE PARKING COUNT
 - SIGN
 - SWMF SIGN(SEE NOTE 26.)

**PRELIMINARY
NOT FOR
CONSTRUCTION**

Proposed Parking Statistics	No. of Stalls
Standard	18
ADA / Disabled	2
Bicycle	8

- NOTES:**
- WHERE EXISTING ITEMS SUCH AS ASPHALT, CONCRETE CURB AND GUTTER, ETC. ARE SHOWN TO BE REMOVED. THESE ITEMS SHALL BE SAWCUT.
 - ALL POTABLE WATER PIPING MUST BE NSF 61 APPROVED. WATER SERVICE PIPING, DISTRIBUTION PIPING AND PLUMBING FIXTURES SHALL CONFORM TO ONE OF THE STANDARDS LISTED IN TABLES 605.3, 605.4, 605.5 IN SECTION 605, MATERIALS, JOINTS AND CONNECTIONS, IN THE 2023 FLORIDA BUILDING CODE, PLUMBING, 8TH EDITION.
 - ALL PLUMBING AND PLUMBING FIXTURES MUST BE INSTALLED OR THE INSTALLATION MUST BE SUPERVISED BY A FLORIDA LICENSED PLUMBER. BURIED WATER LINES SHALL HAVE A MINIMUM OF 36" OF COVER.
 - UNDERGROUND SANITARY SEWER PIPING AND FITTINGS SERVICING THE RESTROOM SHALL CONFORM TO ONE OF THE STANDARDS LISTED IN TABLES 702.2 AND 702.4 IN SECTION 702, MATERIALS, IN THE 2023 FLORIDA BUILDING CODE, PLUMBING, 8TH EDITION.
 - FOLLOW SECTION 603.2 IN THE 2023 FLORIDA BUILDING CODE, PLUMBING, 8TH EDITION FOR SEPARATION OF SEWER AND WATER SERVICE REQUIREMENTS.
 - PROTECT ALL EXISTING TREES UNLESS PLANS CALL FOR REMOVAL. IF TREE ROOTS ARE ENCOUNTERED DURING EXCAVATION CUT ALL ROOTS 2" AND GREATER WITH A SHARP CUTTING TOOL OR SAW. DO NOT DAMAGE THE TREE TRUNK OR BARK.
 - INLET BEACH WATER SYSTEM (IBWS) SHALL PERFORM ALL TAPS GREATER THAN 2" IN DIAMETER, UNLESS WRITTEN PERMISSION IS GIVEN BY IBWS.
 - CONTRACTOR SHALL PERFORM ALL TAPS 2-INCHES DIAMETER AND LESS.
 - A REPRESENTATIVE OF IBWS MUST BE ONSITE PRIOR TO PERFORMING ANY AND ALL TAPS.
 - CONTRACTOR SHALL PROVIDE AT LEAST FIVE WORKING DAYS' NOTICE TO IBWS PRIOR TO PERFORMING THE WORK.
 - AT THE TIME THE LINE IS TO BE TAPPED, IT SHALL BE THE RESPONSIBILITY OF CONTRACTOR TO ENSURE THAT THE TAPPING SLEEVE AND VALVE IS PRESSURIZED AND CAN SUSTAIN THE PRESSURE TEST (SEE SECTION 6.3.7 OF IBWS SPECIFICATION, INCLUDED IN CONSTRUCTION DOCUMENTS).
 - IN THE EVENT THE LINE HAS NOT BEEN TESTED PRIOR TO THE ARRIVAL OF IBWS AT THE JOB SITE, THERE SHALL BE A \$50.00 SERVICE CHARGE ADDED TO THE COST OF THE TAP AND THE TAP SHALL BE RESCHEDULED. SHOULD CONTRACTOR PREFER IBWS TO REMAIN ONSITE IN PREPARATION FOR THE WORK, A SERVICE CHARGE EQUAL TO \$50.00 AN HOUR SHALL APPLY SO LONG AS IBWS IS ON-SITE.
 - ALL TAPS EQUAL TO OR GREATER THAN 4" IN DIAMETER, IRRESPECTIVE OF THE DIAMETER OF THE LINE TO WHICH YOU ARE TAPPING, SHALL CONSIST OF A SINGLE TAPPING SLEEVE AND ASSOCIATED TAPPING VALVE.
 - THE TAPPING SLEEVE AND GLAND SHALL BE STAINLESS STEEL WRAPAROUND 'FAST STYLE', AND SHALL BE AS MANUFACTURED BY FORD METER CO. OR APPROVED EQUAL AND SHALL BE FURNISHED COMPLETE WITH ALL NECESSARY ACCESSORIES.
 - THE TAPPING SLEEVE SHALL HAVE A WORKING PRESSURE RATING OF 200 PSI FOR SIZES 4" THROUGH 12" AND 150 PSI FOR SIZES 14" AND LARGER, AND SHALL CONFORM TO THE APPLICABLE SECTIONS OF ANWMA STANDARD C110 OF LATEST REVISION.
 - THE TAPPING SLEEVE SHALL BE OF THE SPLIT TYPE FOR ASSEMBLY ON THE PIPE AND THE SLEEVE SHALL BE SIZED FOR USE WITH ALL CLASSES OF CAST IRON PIPE.
 - THE OUTLET FLANGE SHALL BE CLASS 125 STANDARD, WITH RECESS FOR STANDARD TAPPING VALVES.
 - ALL TAPS SMALLER THAN 4" IN DIAMETER, IRRESPECTIVE OF THE DIAMETER OF THE LINE TO WHICH YOU ARE TAPPING, SHALL CONSIST OF A SINGLE TAPPING SADDLE AND ASSOCIATED TAPPING VALVE.
 - THE TAPPING SADDLE SHALL BE FUSION BONDED EPOXY COATED, AND SHALL BE AS MANUFACTURED BY FORD METER CO. OR APPROVED EQUAL AND SHALL BE FURNISHED COMPLETE WITH ALL NECESSARY ACCESSORIES.
 - THE EXCAVATED AREA IN WHICH THE TAP SHALL BE MADE MUST BE A MINIMUM OF 4' BELOW THE BOTTOM OF THE VALVE, AT LEAST SEVEN FEET IN LENGTH AND ABLE TO ACCOMMODATE TWO PEOPLE WORKING.
 - THE AREA WHERE THE TAP SHALL BE MADE MUST BE COMPLETELY DRY. IT IS THE RESPONSIBILITY OF CONTRACTOR TO PURSUE ALL MEANS NECESSARY TO Dewater THE AREA IN WHICH THE TAP IS TO BE MADE.
 - TAPPING VALVES SHALL MEET ALL THE REQUIREMENTS OF SECTION 6.3 OF IBWS SPECIFICATIONS AND SHALL BE A MECHANICAL JOINT OUTLET BY TAPPING FLANGE WITH A RAISED INNER LIP FOR ALIGNMENT WITH THE TAPPING SLEEVE.
 - PRIOR TO TAPPING A POTABLE WATER MAIN, THE DRILLING MACHINE'S PILOT DRILL, SHELL CUTTER AND CUTTER HUB SHALL BE STERILIZED IN ACCORDANCE WITH THE FOLLOWING PROCEDURE:
 - FOUR GALLONS OF POTABLE WATER SHALL BE COMBINED WITH 8 OZ. OF SODIUM HYPOCHLORITE; THE PILOT DRILL, SHELL CUTTER AND CUTTER HUB SHALL BE SWABBED UNTIL CLEAN OR TOTALLY IMMERSER IN THE STERILIZING SOLUTION AND ALLOWED TO REMAIN WET AT LEAST FIVE MINUTES BEFORE TAPPING OPERATION COMMENCES. IT IS NOT NECESSARY TO RINSE THE STERILIZING SOLUTION FROM THE TAPPING COMPONENTS PRIOR TO USE.
 - PAVILION STRUCTURES TO BE CEDAR FOREST PRODUCTS MODEL #LB2020 OR APPROVED EQUAL. METAL ROOFING SHALL MATCH 'RESTROOMS' AS SPECIFIED IN ARCHITECTURAL PLANS.
 - SWMF SIGNAGE TO SERVE AS NOTICE TO PUBLIC / VISITORS THAT STORM PONDS SHALL NOT BE USED FOR RECREATIONAL PURPOSES. EXACT VERBIAGE AND SIGN SPECIFICATIONS TO BE SELECTED AT OWNER'S OPTION.



SITE PLAN NORTH SIDE PICNIC AREA

SCALE: 1" = 30'

S:\JOHNSON January 2, 2025 p:\projects\21-5498\c301 site plan north side picnic area.dwg

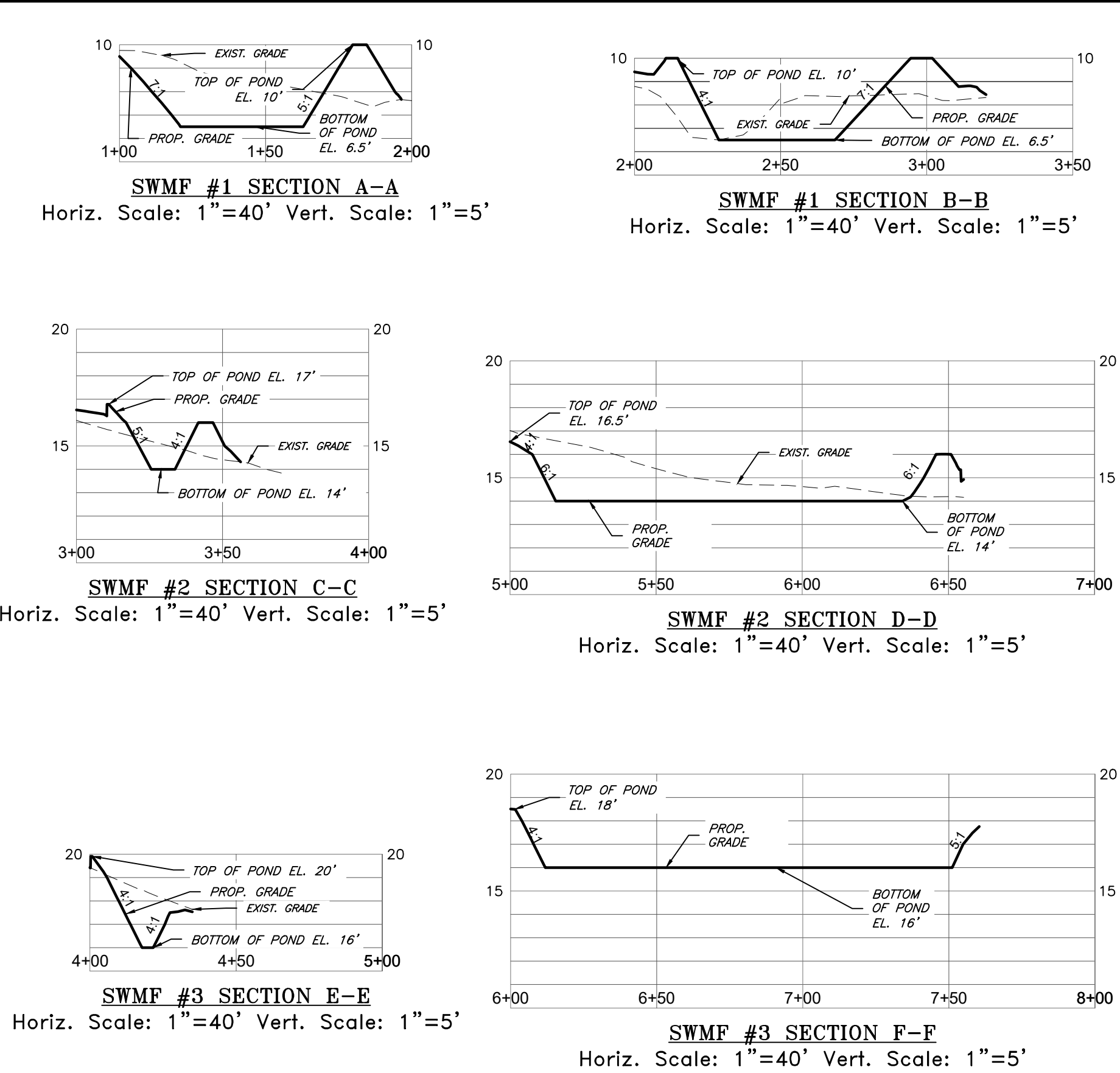
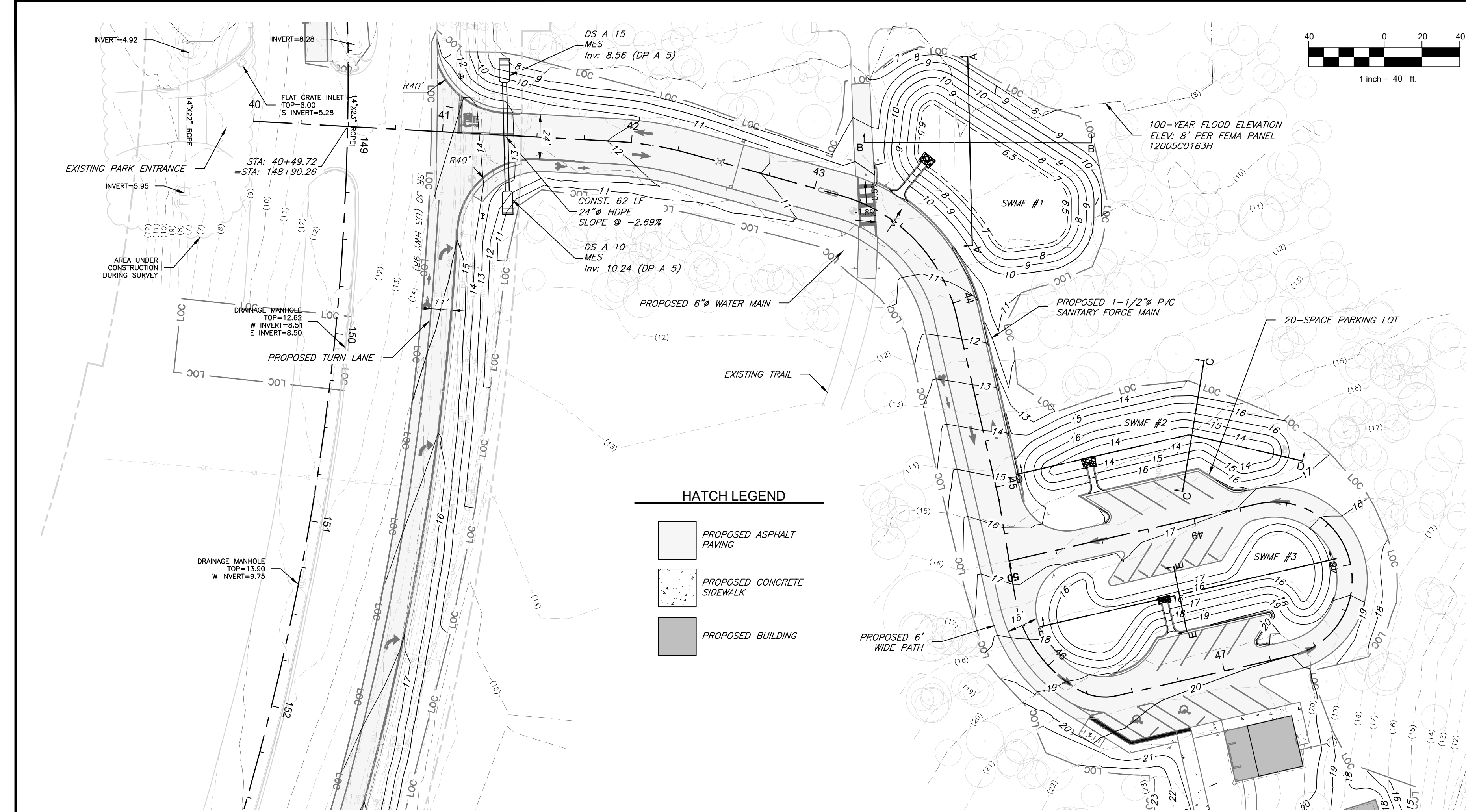
DATE	REVISION	SYMBOL	DATE	REVISION	SYMBOL
Department of Environmental Protection Division of Recreation and Parks Bureau of Design and Construction 3900 Commonwealth Boulevard, Tallahassee, FL 32399 (850) 245-2157					
George & Associates Consulting Engineers, Inc. ONE FIVE SEVEN AVENUE, SUITE 200, TALLAHASSEE, FL 32303 PHONE: 850/5210344 - FAX: 850/5210345					
PROFESSIONAL REGISTRATION					
CAMP HELEN STATE PARK					
SITE PLAN NORTH SIDE PICNIC AREA					
PARK IMPROVEMENT					
SHEET TITLE					
PROJECT TITLE					
SHEET NO.					
C301					
Approved 2024/01/09/20044 Lisa Ward 1/30/2025					



-
- 1 inch = 30 ft.

PROPOSED UTILITY PLAN NORTH SIDE PICNIC AREA

A circular professional engineer seal for the State of Florida. The outer ring contains the text "JAMES H. PETERSON" at the top, "LICENSE" on the left, "No 80485" in the center, "STATE OF" on the right, and "FLORIDA PROFESSIONAL ENGINEER" at the bottom. There are three stars: one at the top, one on the left, and one on the right.



NOTE: POND SIDES TO BE STABILIZED WITH BAHIA SEED AND FLORIDA UPLANDS MEADOW MIX. SEED AND MULCH POND BOTTOMS. DO NOT COMPACT POND BOTTOMS. PLEASE SEE LANDSCAPE PLAN SHEET, C306.

DATE

REVISION

SYMBOL

DATE

REVISION

SYMBOL

ISSUE DATE: 11/11/2024

COMP. FILE NO. 21-5496

STATE PROJECT NO. 61307C-N3903

DESIGNER: SMU

DRAWN BY: TJM

REVIEWED BY: JHP

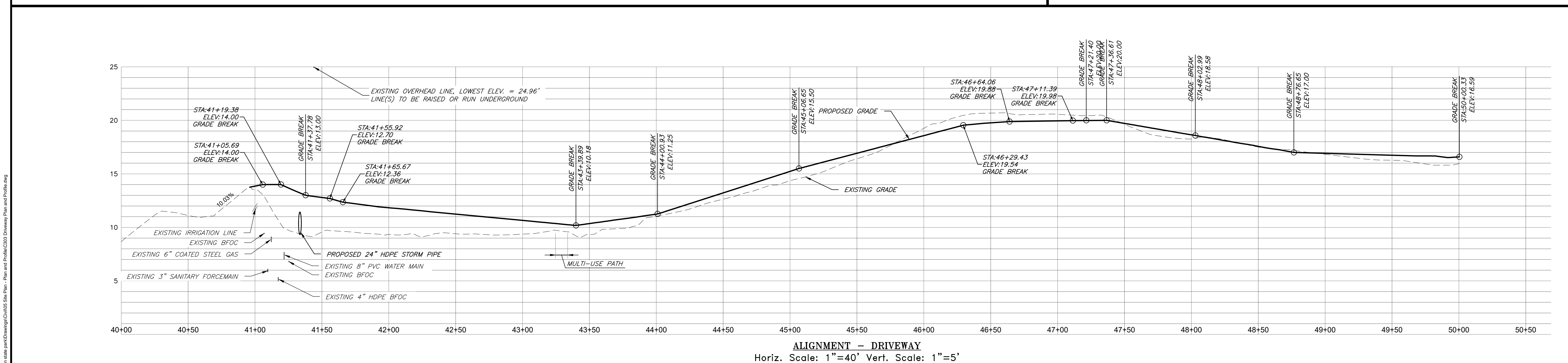
CONSULTANT: George & Associates Consulting Engineers, Inc.

Department of Environmental Protection

Division of Recreation and Parks

Bureau of Design and Construction

3900 Commonwealth Boulevard, Tallahassee, FL 32399 (850) 245-2157



S:\JOHNSON January 2, 2025 p:\projects\21-5496\c306\camp helien state park\Drawings\CA055 Site Plan - Plan and Profile\C303 Driveway Plan and Profile.dwg

DRIVEWAY PLAN AND PROFILE

SCALE: 1" = 40'

PRELIMINARY
NOT FOR
CONSTRUCTION

CAMP HELEN STATE PARK

DRIVEWAY PLAN AND PROFILE

PARK IMPROVEMENT

SHEET NO.

PROJECT TITLE

PROFESSIONAL REGISTRATION

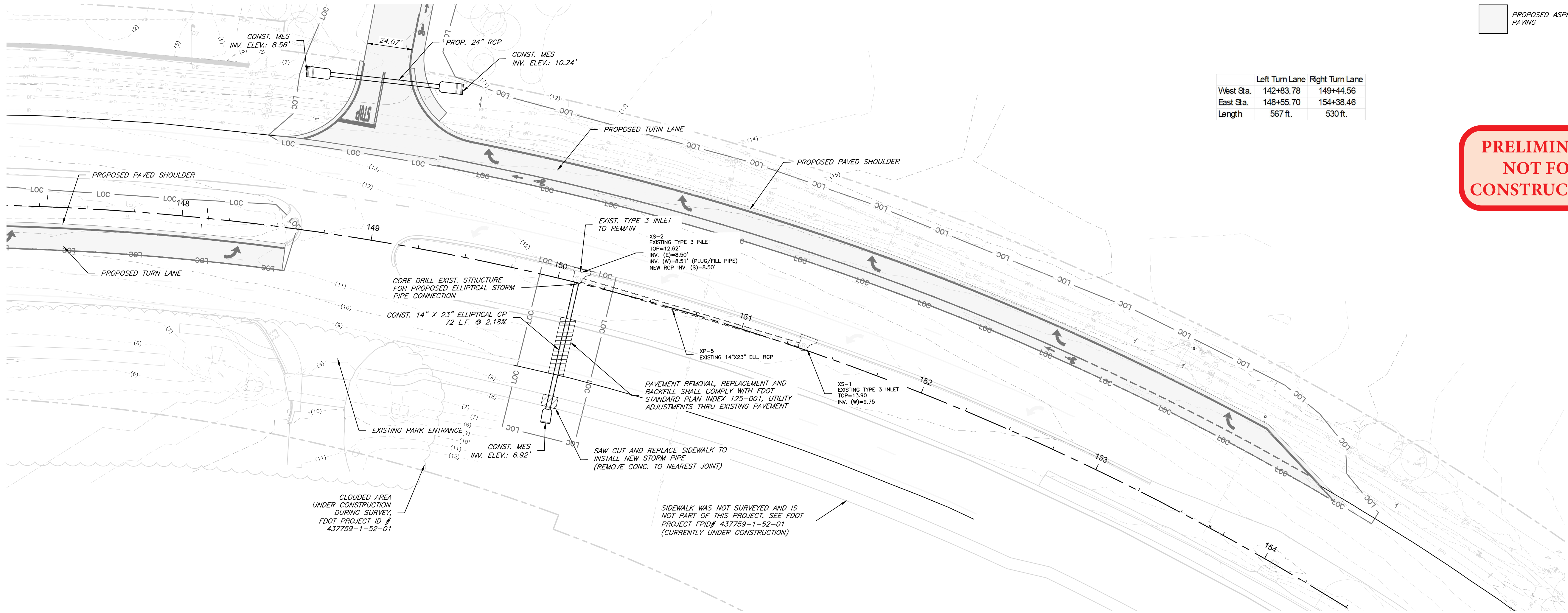
JAMES H. PETERSON, P.E. # 88485

S:\S\SA\SA\January 7, 2025 P:\Project\21-548 BDC Camp Helen State Park\Drawings\CD\05 Site Plan - Plan and Profile\CD04 Site Plan Turn Lanes.dwg



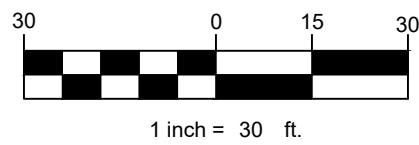
EAST BOUND LEFT TURN LANE PLAN

SCALE: 1" = 30'



WEST BOUND RIGHT TURN LANE PLAN

SCALE: 1" = 30'



CAMP HELEN STATE PARK

SITE PLAN TURN LANES

PARK IMPROVEMENT

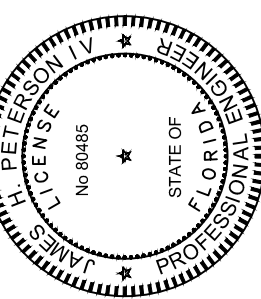
SHEET TITLE

PROJECT TITLE

SHEET NO.

C304

PROFESSIONAL REGISTRATION



JAMES H. PETERSON, P.E.
No. 88485
State of Florida

DESIGNER: SMU

DRAWN BY: SMU

REVIEWED BY: JHP

CONSULTANT:

George & Associates
Consulting Engineers, Inc.
1907 Commonwealth Lane, Suite 200, Tallahassee, FL 32303
PHONE: 850/5210344 - FAX: 850/5210345

ISSUE DATE: 11/11/2024

COMP. FILE NO.: 21-5486

STATE PROJECT NO.: 61307C-N3803

SYMBOL



REVISION



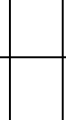
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SYMBOL



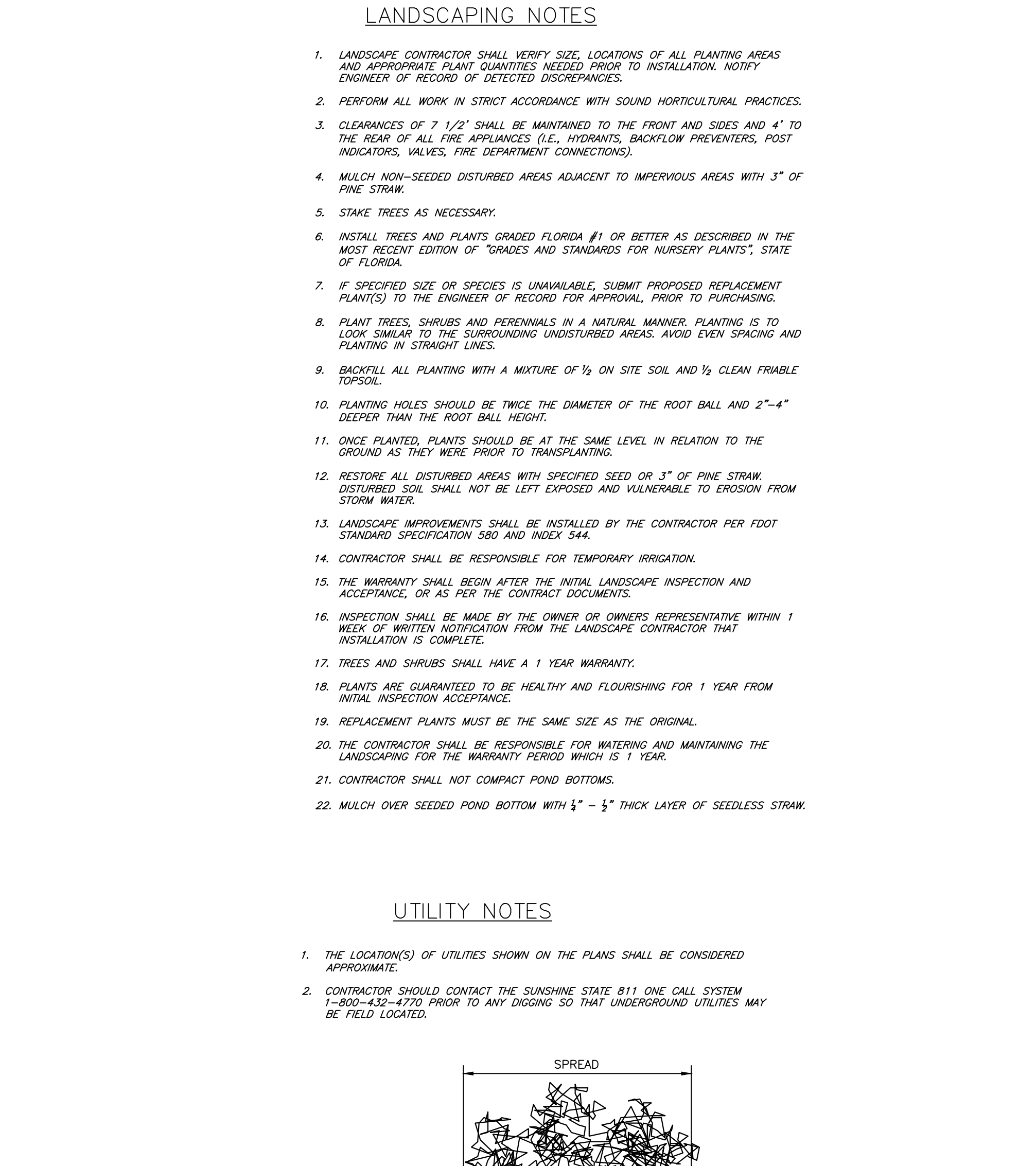
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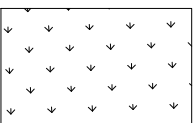
Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3900 Commonwealth Boulevard, Tallahassee, FL 32399 (850) 245-2157

George & Associates
Consulting Engineers, Inc.
1907 Commonwealth Lane, Suite 200, Tallahassee, FL 32303
PHONE: 850/5210344 - FAX: 850/5210345

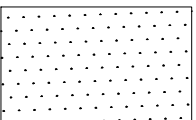
Approved
3/24/2025 091:00044
Lisa Ward
1/30/2025



LEGEND



GRASS SEED MIX - OVER 50%
PENSACOLA BAHIA SEED



FLORIDA UPLAND MEADOW MIX, ERNST SEEDS
ITEM #ERNMX-601, OR APPROVED EQUAL.*

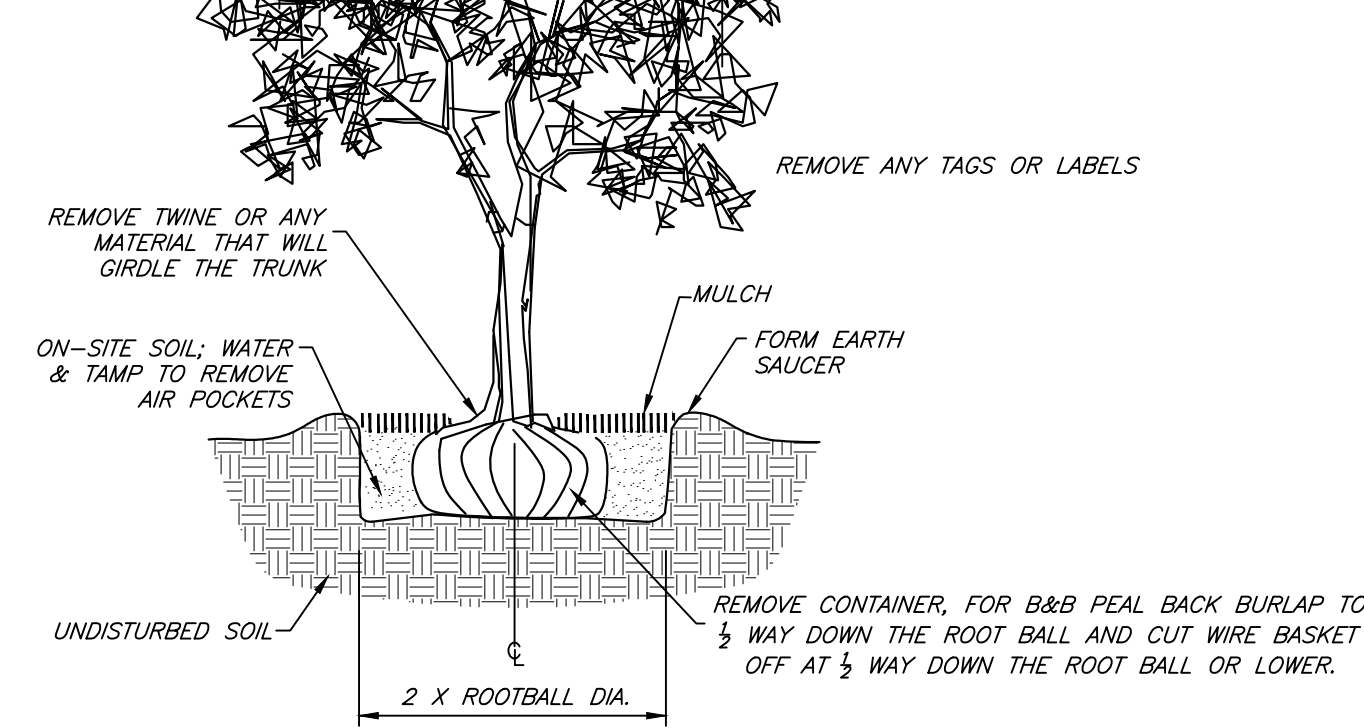
LOWER MIX MUST BE COMBINED WITH A COVER CROP OF BROWN TOP
AT A RATE OF 10 LBS PER ACRE FROM APRIL TO SEPT OR ANNUAL
AT A RATE OF 30 LBS/ACRE FROM OCT-MARCH. FL UPLAND MIX TO
BE PLANT AT A RATE OF 15 LBS PER ACRE. SEE MANUFACTURERS
INSTRUCTIONS FOR MORE DETAILS.

REFERENCE LEGEND



QUANTITY OF PLANTINGS

PLANT I.D.



REMOVE ANY TAGS OR LABELS

REMOVE TWINE OR ANY MATERIAL THAT WILL GIRDLE THE TRUNK

MULCH

FORM EARTH SAUCER

ON-SITE SOIL, WATER & TAMP TO REMOVE AIR POCKETS

UNDISTURBED SOIL

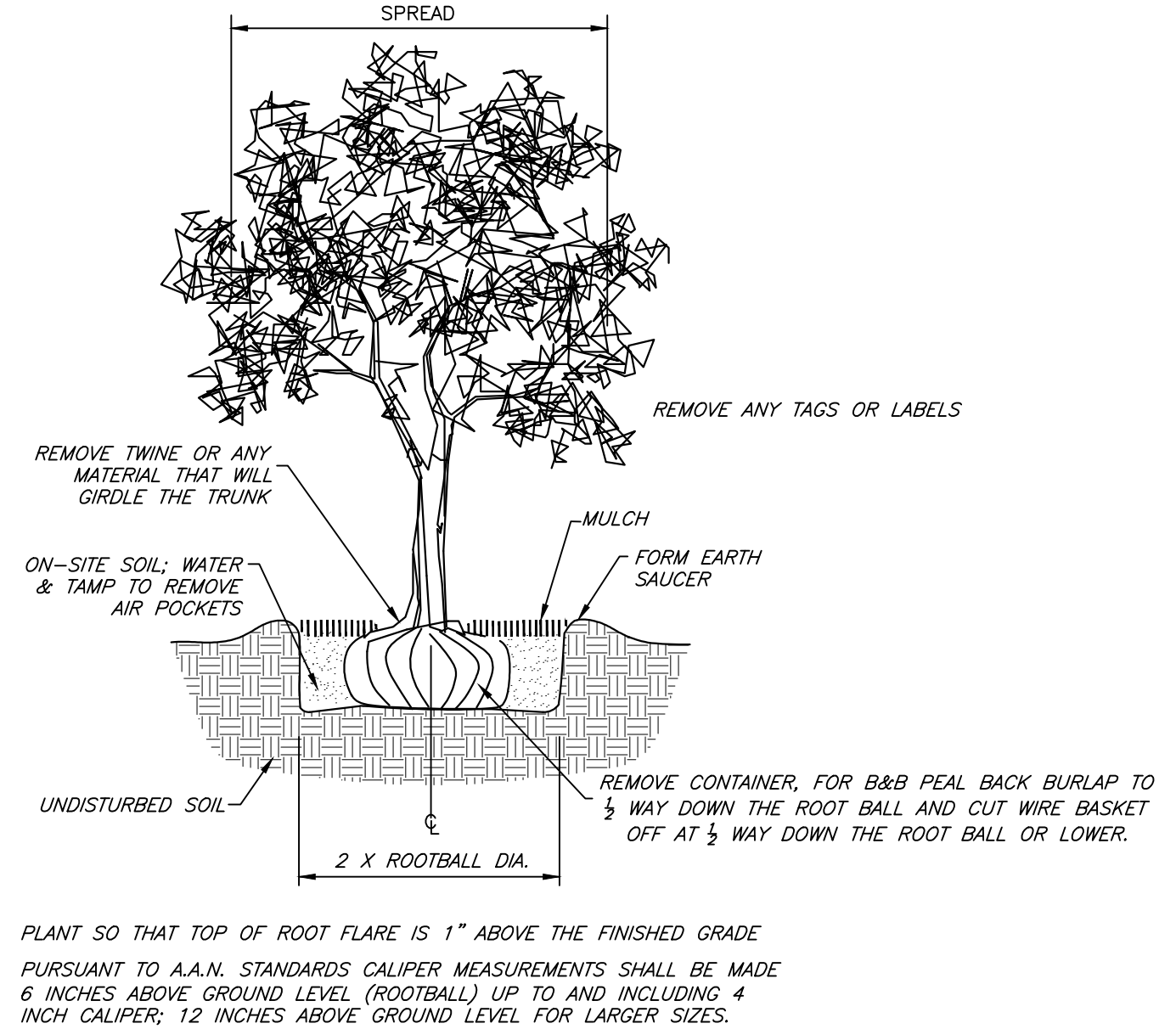
2' X ROOTBALL DIA.

REMOVE CONTAINER, FOR B&B PEEL BACK BURLAP TO 1/2 WAY DOWN THE ROOT BALL AND CUT WIRE BASKET OFF AT 1/2 WAY DOWN THE ROOT BALL OR LOWER.

PLANT SO THAT TOP OF ROOT FLARE IS 1" ABOVE THE FINISHED GRADE
PURSUANT TO A.A.N. STANDARDS CALIPER MEASUREMENTS SHALL BE MADE
6 INCHES ABOVE GRADE LEVEL (ROOTBALL) UP TO AND INCLUDING 4
INCH CALIPER; 12 INCHES ABOVE GROUND LEVEL FOR LARGER SIZES.

TREE PLANTING DETAIL

SCALE: NTS



SCALE: NTS

[illegible]

SCALE: 1" = 30'

CAMP HELEN STATE PARK

LANDSCAPE PLAN

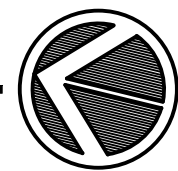
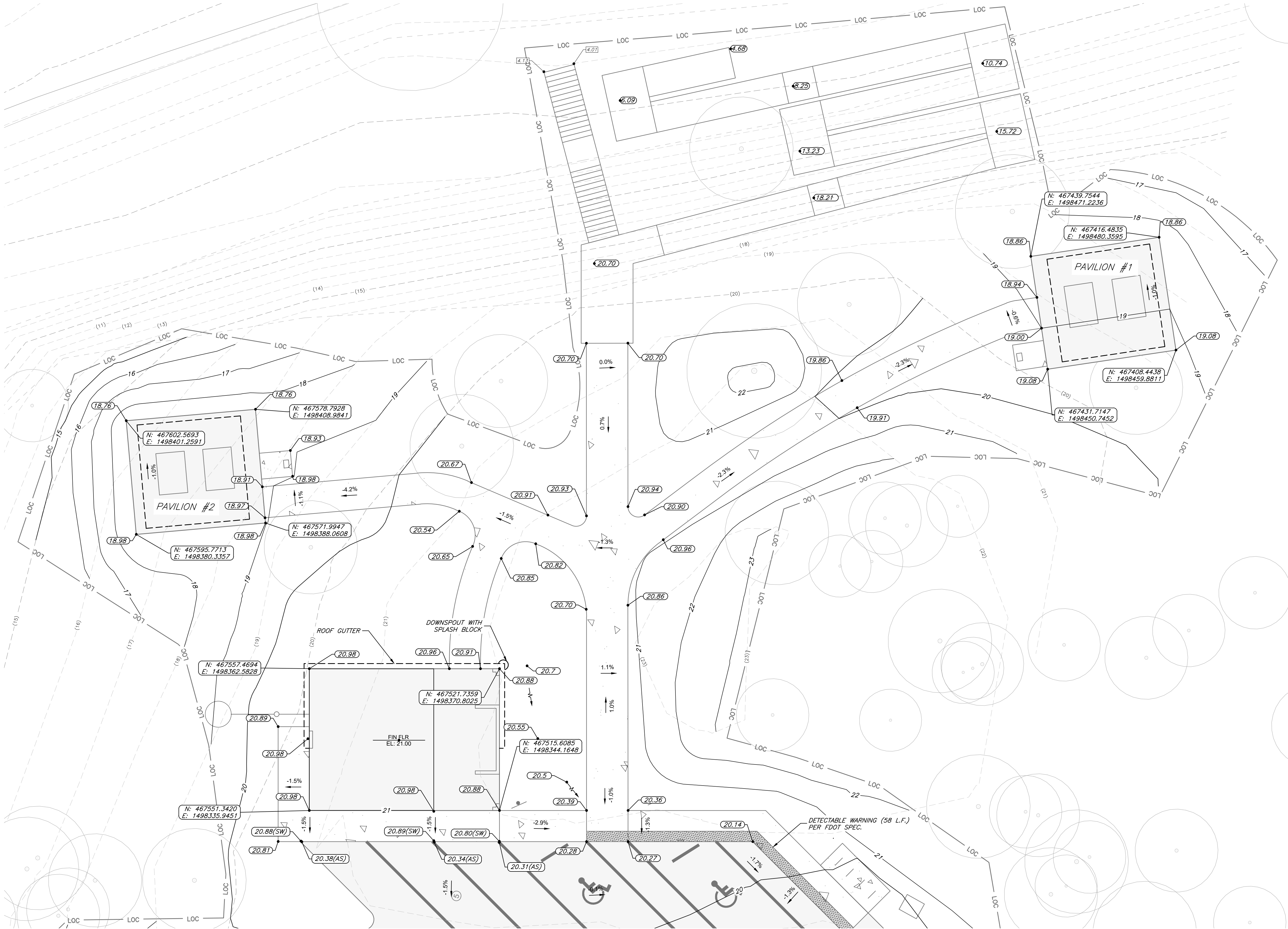
PARK IMPROVEMENT

SHEET NO

C306

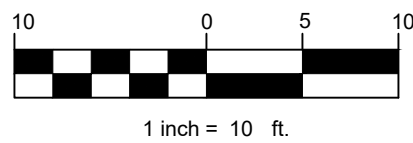
06 Approved
4-A-391-00044
Lisa Ward
1/30/2025

J. PETERSON, July 6, 2023, P:\Projects\21-5436, loc, camp Helen State Park\Drawings\Grading\Cross Sections\CD01 North Picnic Area Grading Plan.dwg



NORTH PICNIC AREA GRADING PLAN

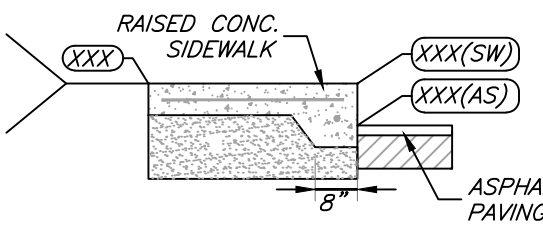
SCALE: 1" = 10'



**PRELIMINARY
NOT FOR
CONSTRUCTION**

SPOT ELEVATION LEGEND

- XXX - EXISTING SPOT ELEVATION
- XXX(AS) - PROPOSED SPOT ELEVATION FOR ASPHALT PAVING WITH RAISED CONC. SIDEWALK
- XXX(SW) - PROPOSED SPOT ELEVATION FOR RAISED CONC. SIDEWALK
- XXX - PROPOSED TYPICAL SPOT ELEVATION



CAMP HELEN STATE PARK

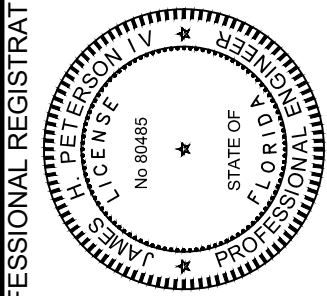
NORTH PICNIC AREA GRADING PLAN

PARK IMPROVEMENT

SHEET NO.

C401

Approved
4424A391-00044
Lisa Word
1/30/2025



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PHONE: 850.521.0344 - FAX: 850.521.0345

Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3900 Commonwealth Boulevard, Tallahassee, FL 32399 (850) 245-2157

DESIGNER	SWU
DRAWN BY	TJM
REVIEWED BY	JHP
ISSUE DATE	11/11/2024
COMP. FILE NO.	21-5436
STATE PROJECT NO.	61307C-N3903

DATE	REVISION	SYMBOL	DATE



SCALE: 1" = 10'

C402

402

DESIGNER: SMU

DRAWN BY: TJM

REVIEWED BY: JHP

ISSUE DATE: 1/11/2024

COMP FILE NO.: 21-5436

STATE PROJECT NO.: 61007C-N3803

PLANS	REVISION	DATE	SYMBOL
100%			

PLANS	REVISION	DATE	SYMBOL



James H. Peterson IV
 State of Florida P.E. # 80485

George & Associates
 Consulting Engineers, Inc.
ONE - ENVIRONMENTAL ENGINEERING DIVISION - LANE USE
 1807 Commonwealth Lane, Suite 200, Tallahassee, FL 32303
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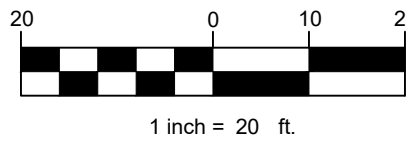
Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
 3900 Commonwealth Boulevard, Tallahassee, FL 32399 (850) 245-2157

TM/CABE July 6, 2023 P:\Projects\21-5436 loc camp helien state park\Drawings\C403 North Driveway Grading Plan.dwg



NORTH DRIVEWAY GRADING PLAN

SCALE: 1" = 20'



CAMP HELEN STATE PARK

NORTH DRIVEWAY GRADING PLAN

PARK IMPROVEMENT

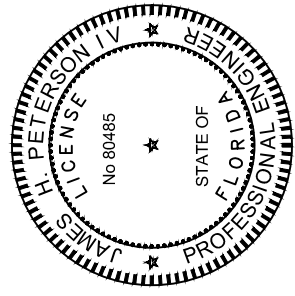
SHEET TITLE

PROJECT TITLE

SHEET NO.

C403

PROFESSIONAL REGISTRATION



JAMES H. PETERSON IV
State of Florida P.E. # 88485

DESIGNER: SWU

DRAWN BY: TJM

REVIEWED BY: JHP

CONSULTANT:



George & Associates
Consulting Engineers, Inc.

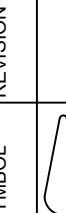
1907 Commonwealth Blvd., Suite 200
Tallahassee, FL 32303
PHONE: 850/521-0344 FAX: 850/521-0345

ISSUE DATE: 11/11/2024

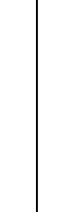
COMP. FILE NO.: 21-5436

STATE PROJECT NO.: 61307C-N3803

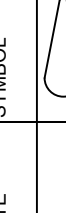
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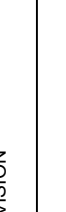
REVISION



DATE



REVISION



DATE



Department of Environmental Protection

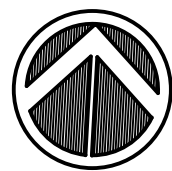
Division of Recreation and Parks

Bureau of Design and Construction

3900 Commonwealth Boulevard, Tallahassee, FL 32399 (850) 245-2157

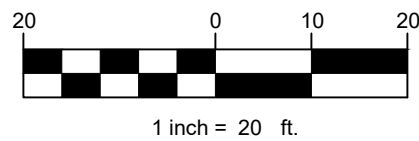
Approved
4/24/2024 9:00 AM
1/30/2025

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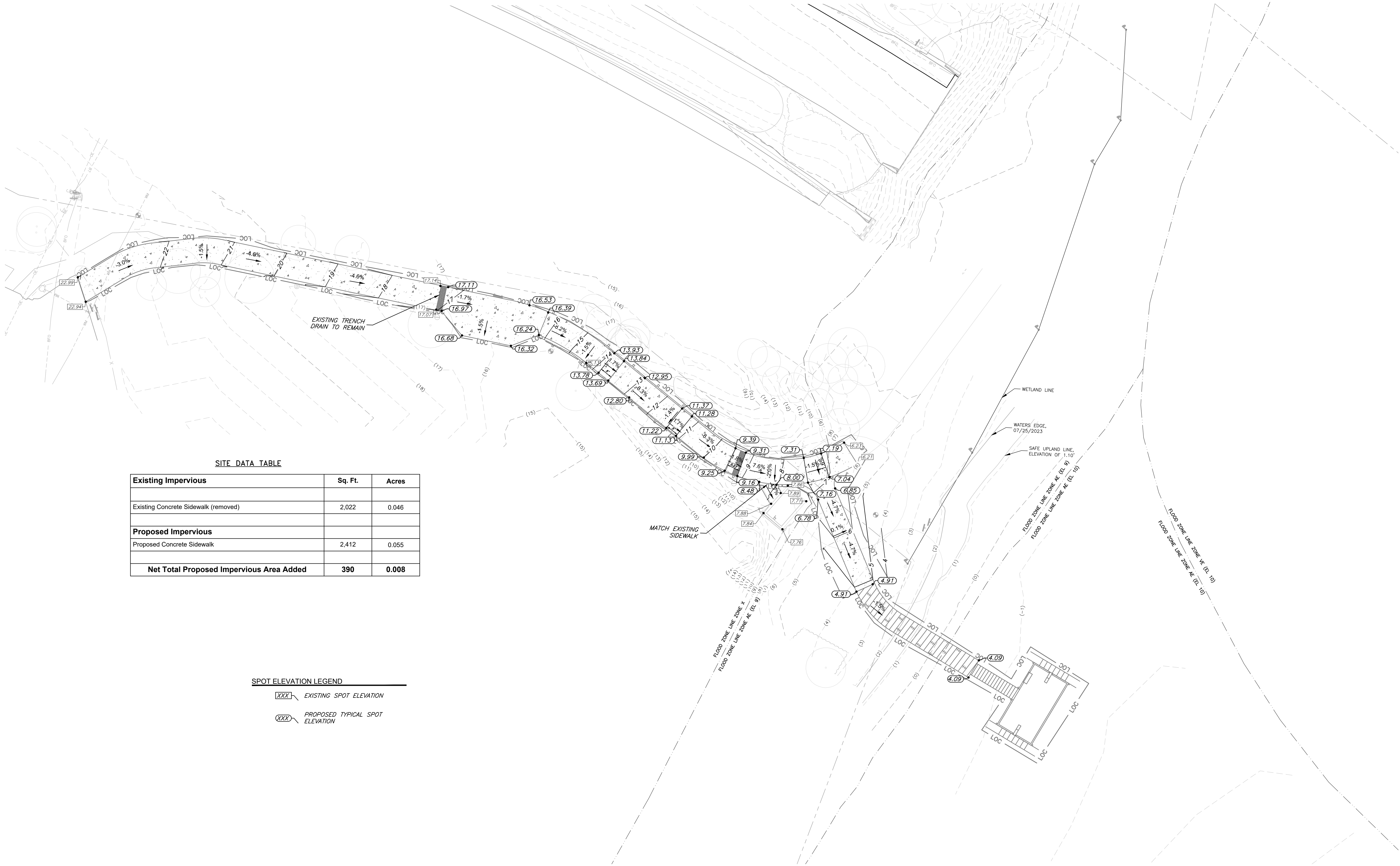


ADA KAYAK LAUNCH GRADING PLAN

SCALE: 1" = 20'



**PRELIMINARY
NOT FOR
CONSTRUCTION**



SITE DATA TABLE

Existing Impervious	Sq. Ft.	Acres
Existing Concrete Sidewalk (removed)	2,022	0.046
Proposed Impervious		
Proposed Concrete Sidewalk	2,412	0.055
Net Total Proposed Impervious Area Added	390	0.008

SPOT ELEVATION LEGEND

- XXX EXISTING SPOT ELEVATION
- XXX PROPOSED TYPICAL SPOT ELEVATION

C404	SHEET NO.		CAMP HELEN STATE PARK		PROFESSIONAL REGISTRATION									
	SHEET TITLE		ADA KAYAK LAUNCH GRADING PLAN											
	PROJECT TITLE		PARK IMPROVEMENT		JAMES H. PETERSON, P.E. # 88485 State of Florida									
					George & Associates Consulting Engineers, Inc. ONE THIRTEENTH AVENUE, SUITE 100 TALLAHASSEE, FLORIDA 32303 TELEPHONE (904) 245-2157 FAX (904) 245-2158									
					Department of Environmental Protection Division of Recreation and Parks Bureau of Design and Construction 3900 Commonwealth Boulevard, Tallahassee, FL 32399 (850) 245-2157									

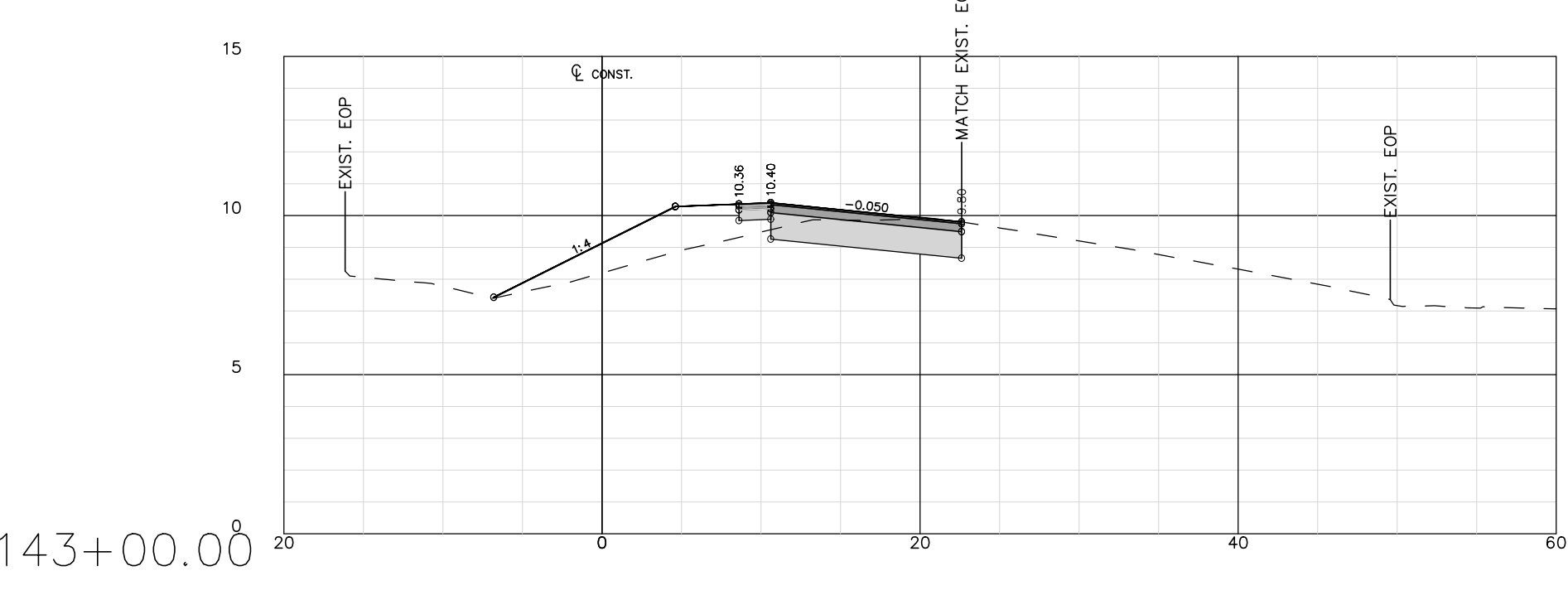
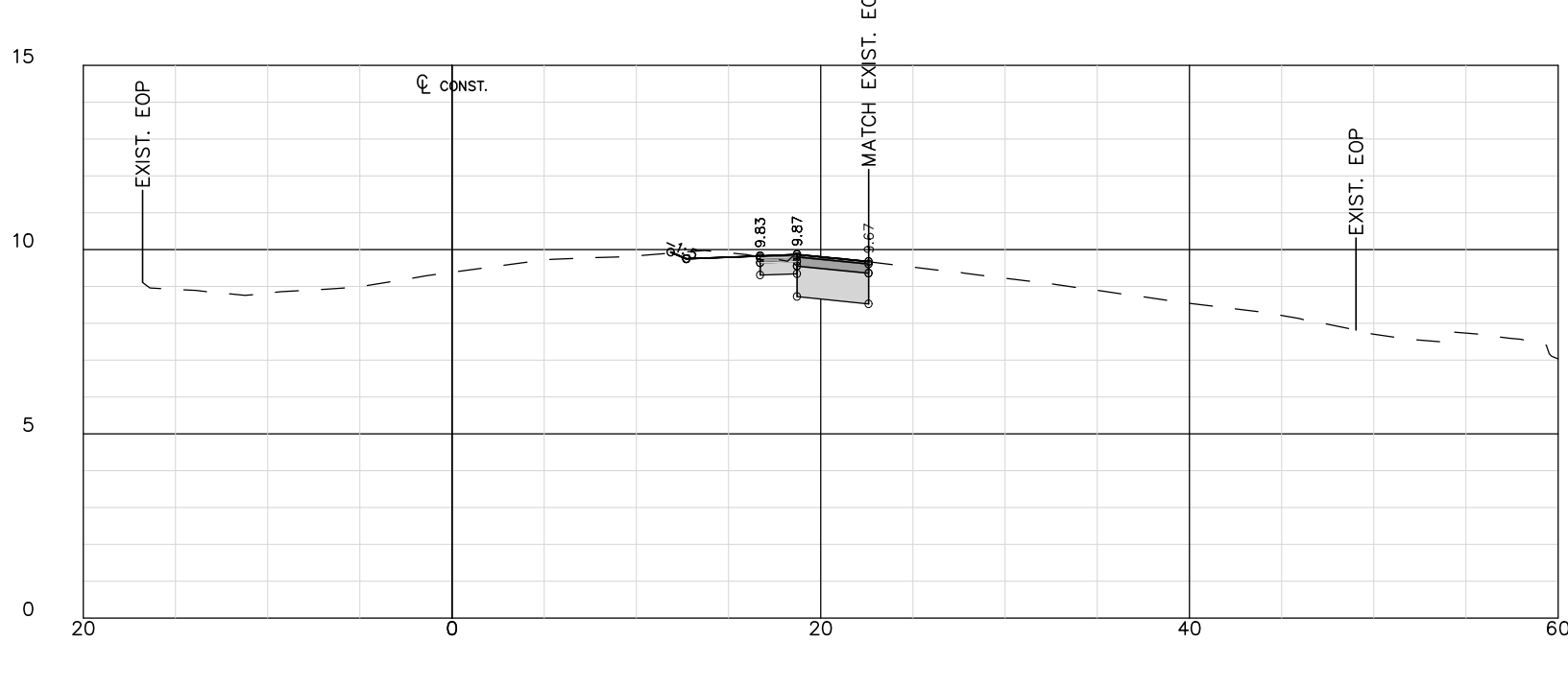
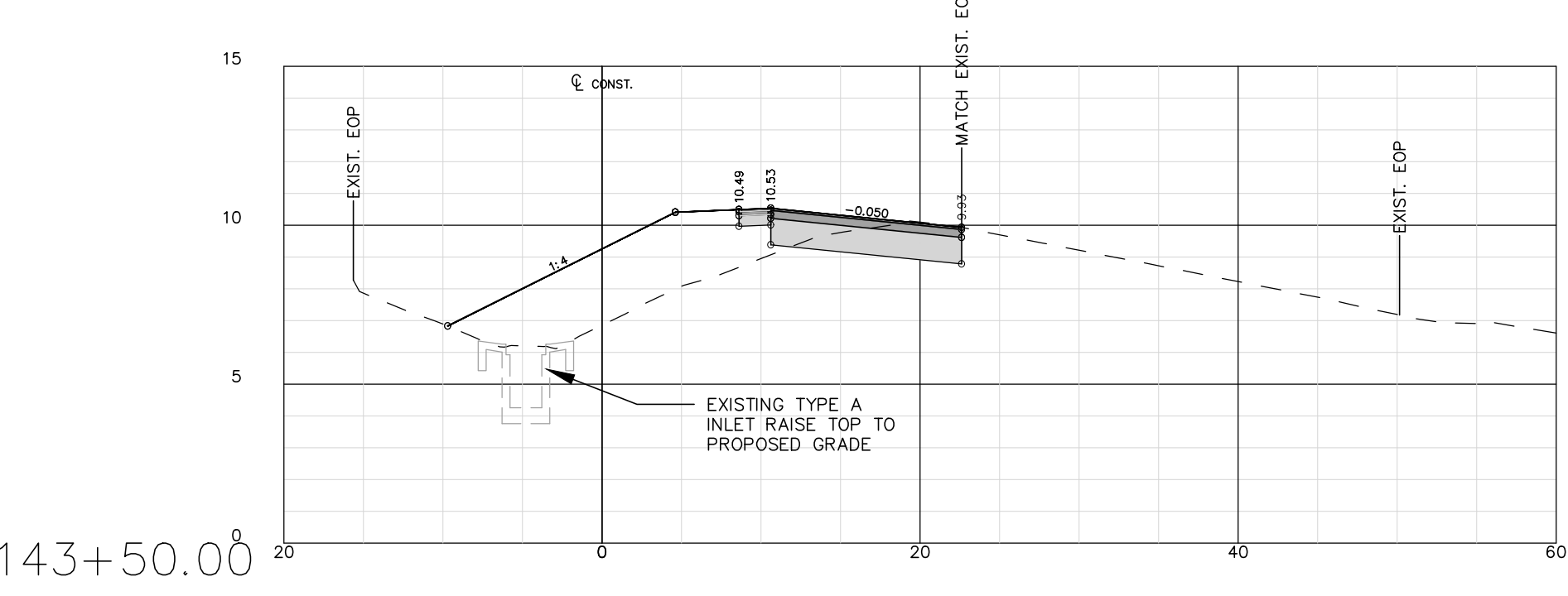
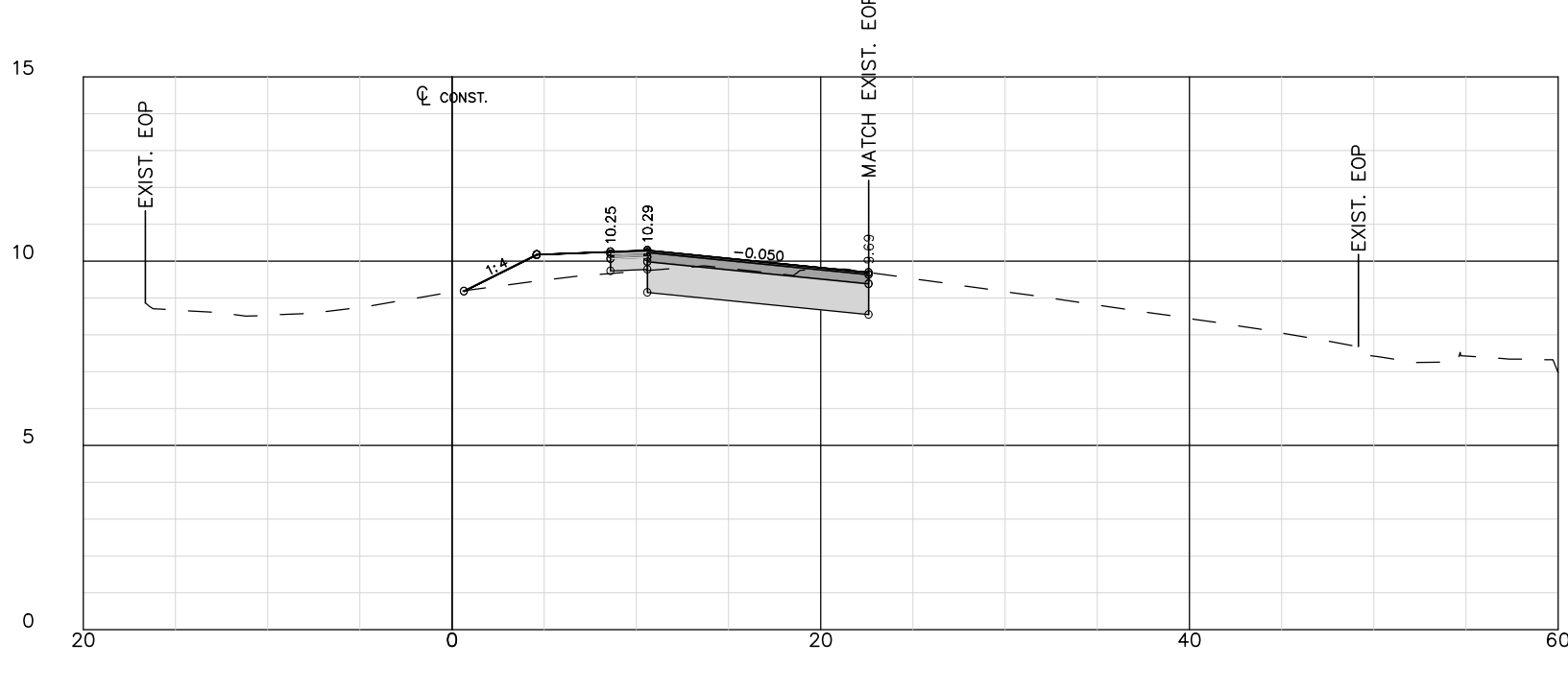
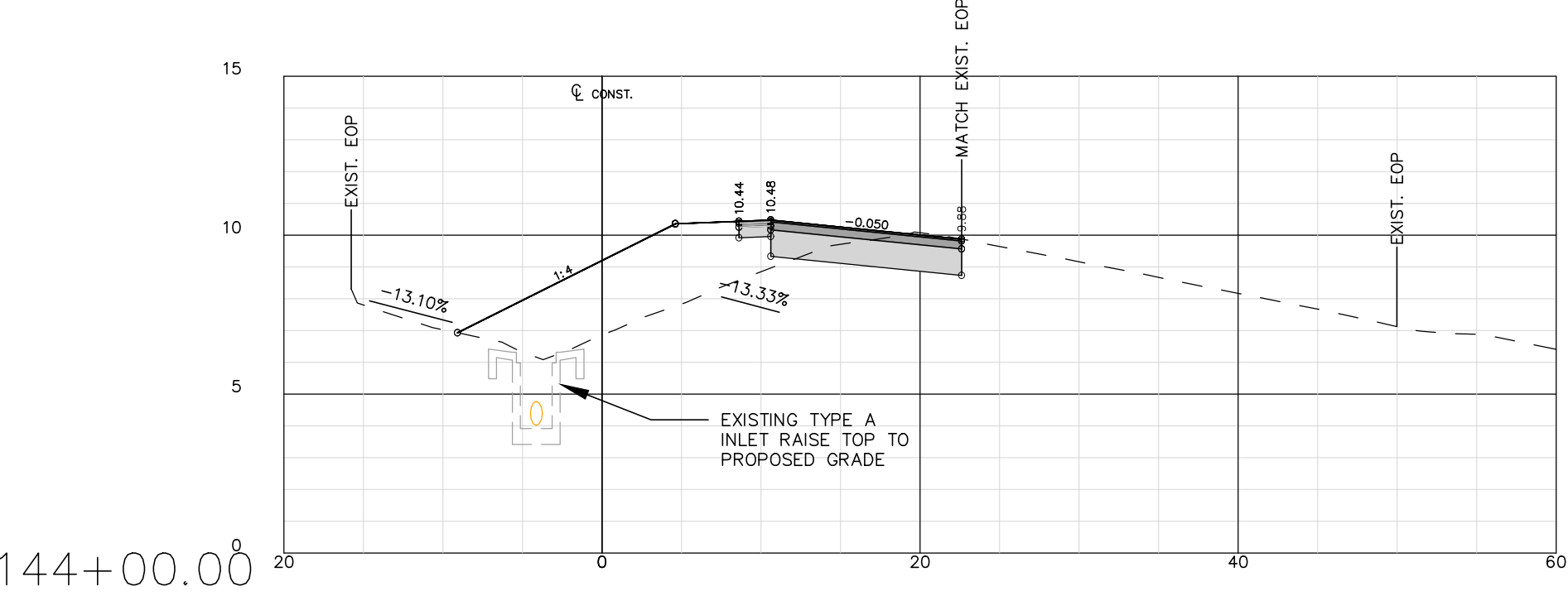
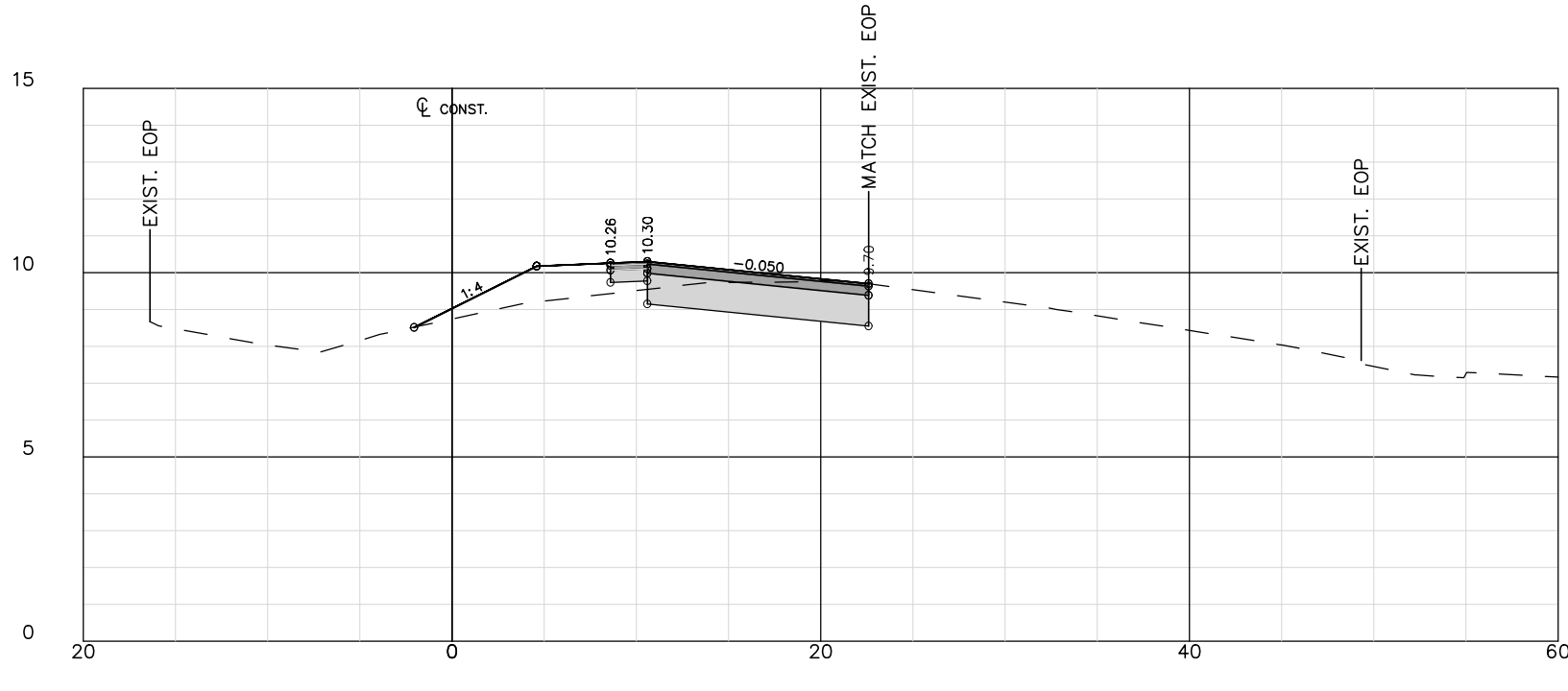
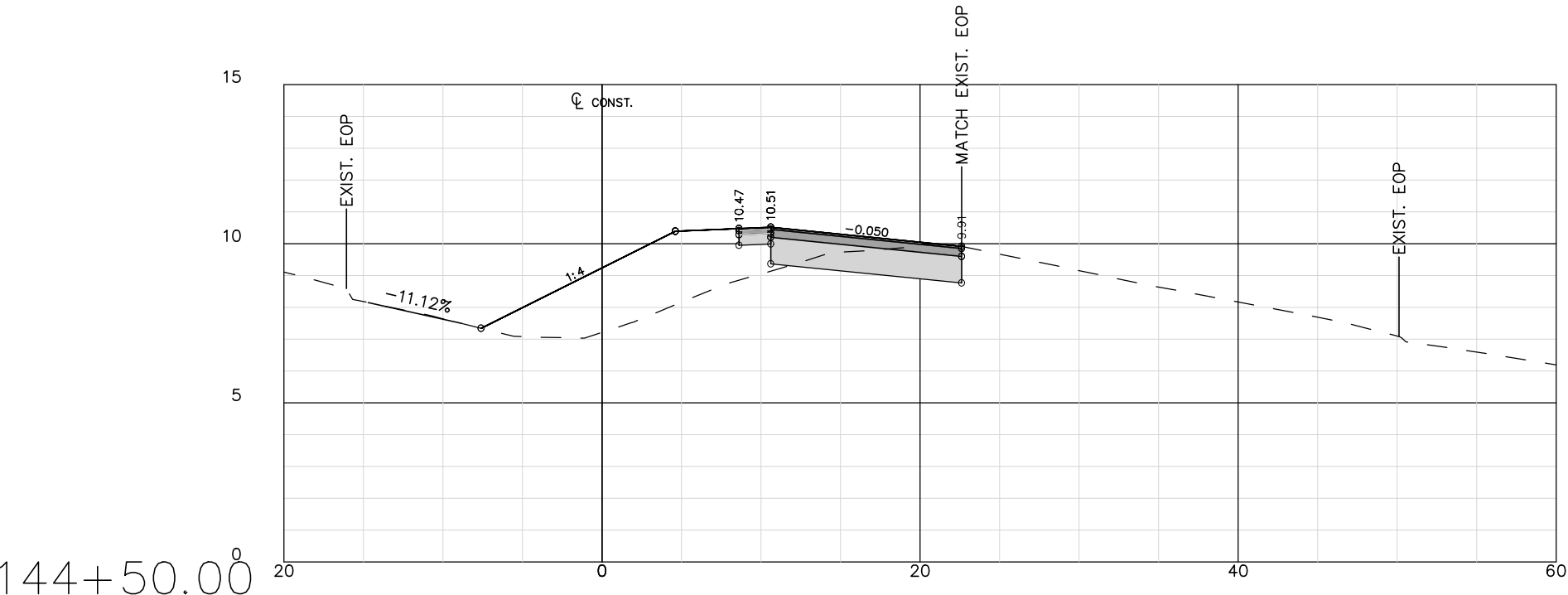
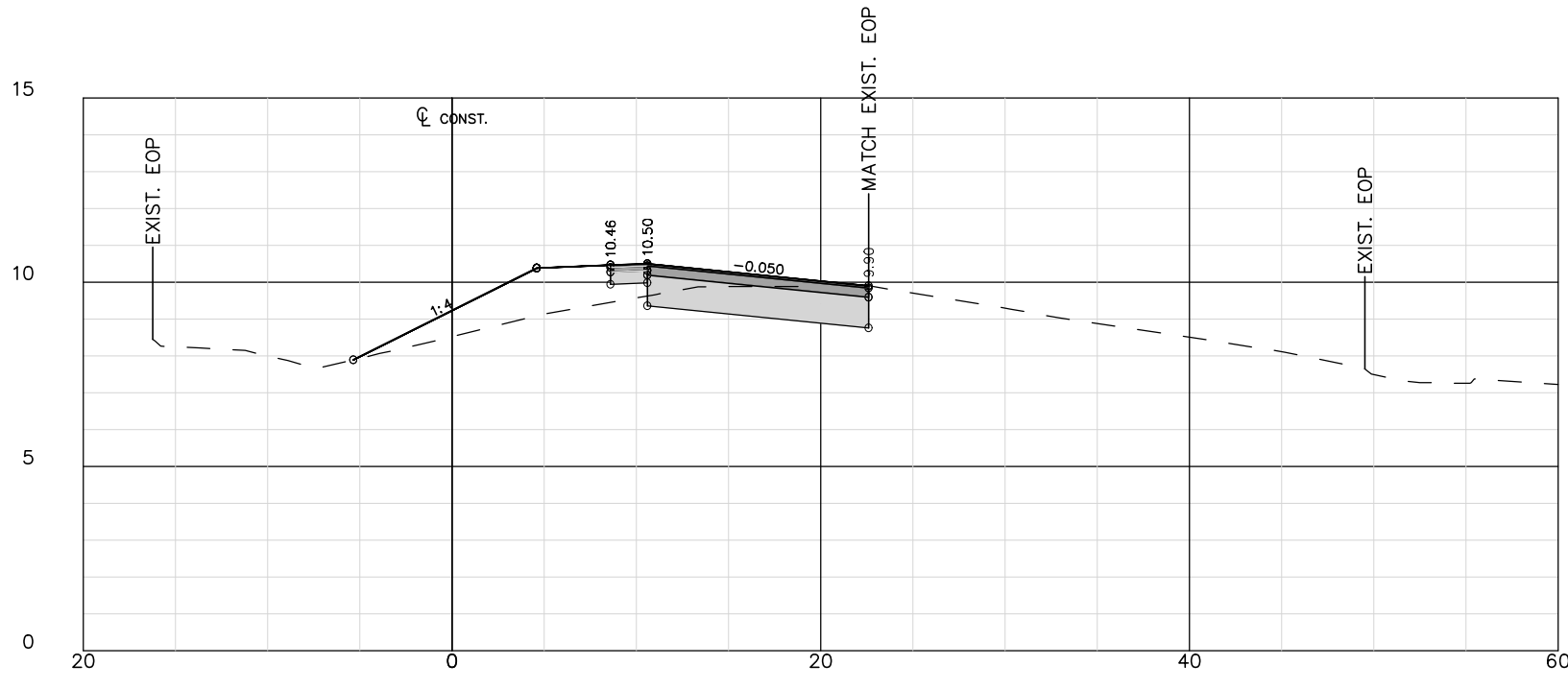
C404

Approved
4/24/2025
1/30/2025

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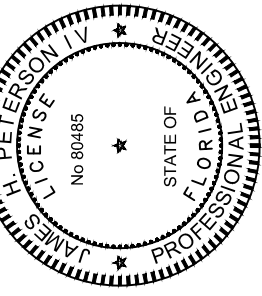
EAST BOUND TURN LANE CROSS SECTIONS

HORIZ. SCALE: 1" = 10' VERT. SCALE: 1" = 5'



PRELIMINARY
NOT FOR
CONSTRUCTION

SHEET TITLE		CAMP HELEN STATE PARK		DESIGNER: SMU		ISSUE DATE: 11/11/2024 100% PLANS		SYMBOL		REVISION		DATE		SYMBOL		REVISION		DATE	
EAST BOUND TURN LANE CROSS SECTIONS				DRAWN BY: TJM		COMP. FILE NO.: 21-5436													
PROJECT TITLE		PARK IMPROVEMENT		REVIEWED BY: JHP		STATE PROJECT NO: 61307C-N3803													
SHEET NO.		C405		CONSULTANT		George & Associates Consulting Engineers, Inc. 1937 Commonwealth Lane, Suite 200 Tallahassee, FL 32303 PHONE: 850/5210344 FAX: 850/5210345		Department of Environmental Protection Division of Recreation and Parks Bureau of Design and Construction 3900 Commonwealth Boulevard, Tallahassee, FL 32399 (850) 245-2157											

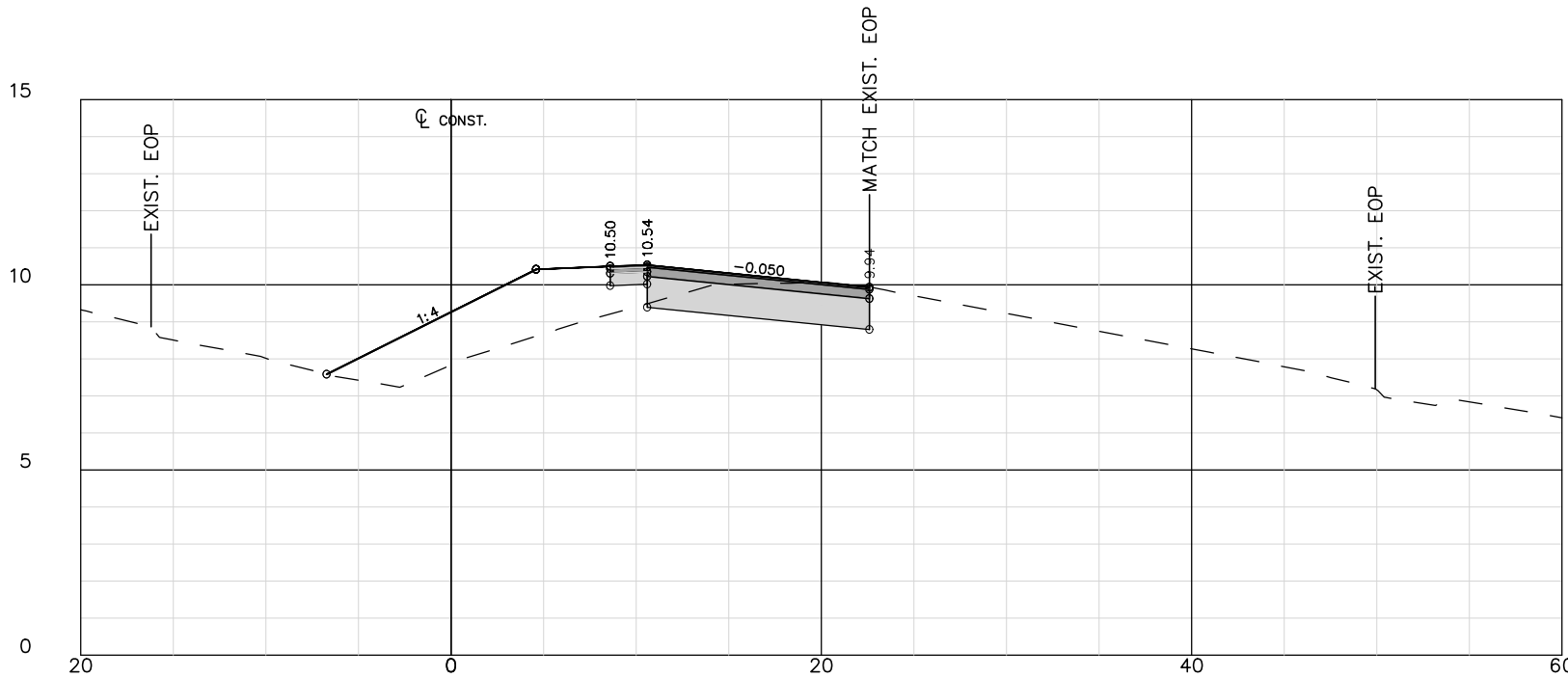


JAMES H. PETERSON IV
State of Florida P.E. # 84485

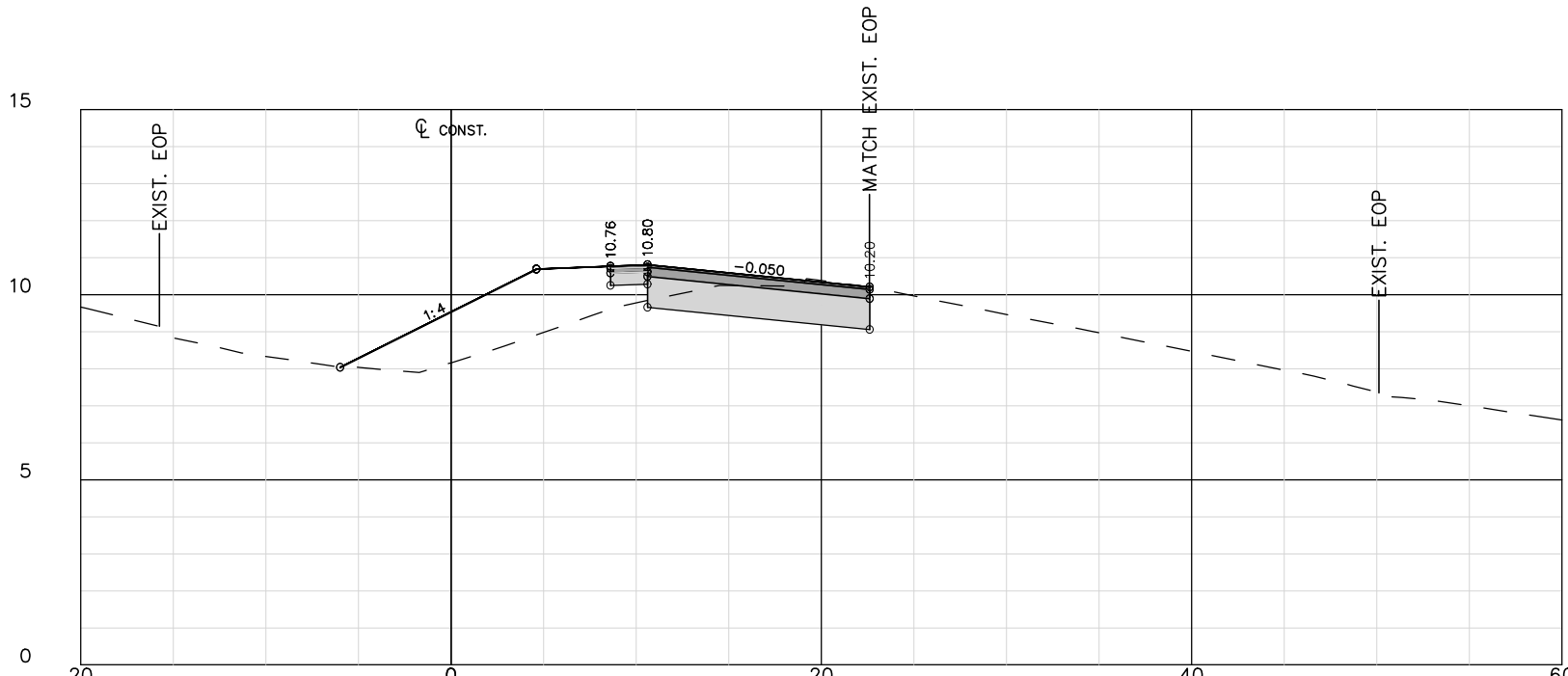
C405

Approved
4/24/25 15:00044
Lisa Word
1/30/2025

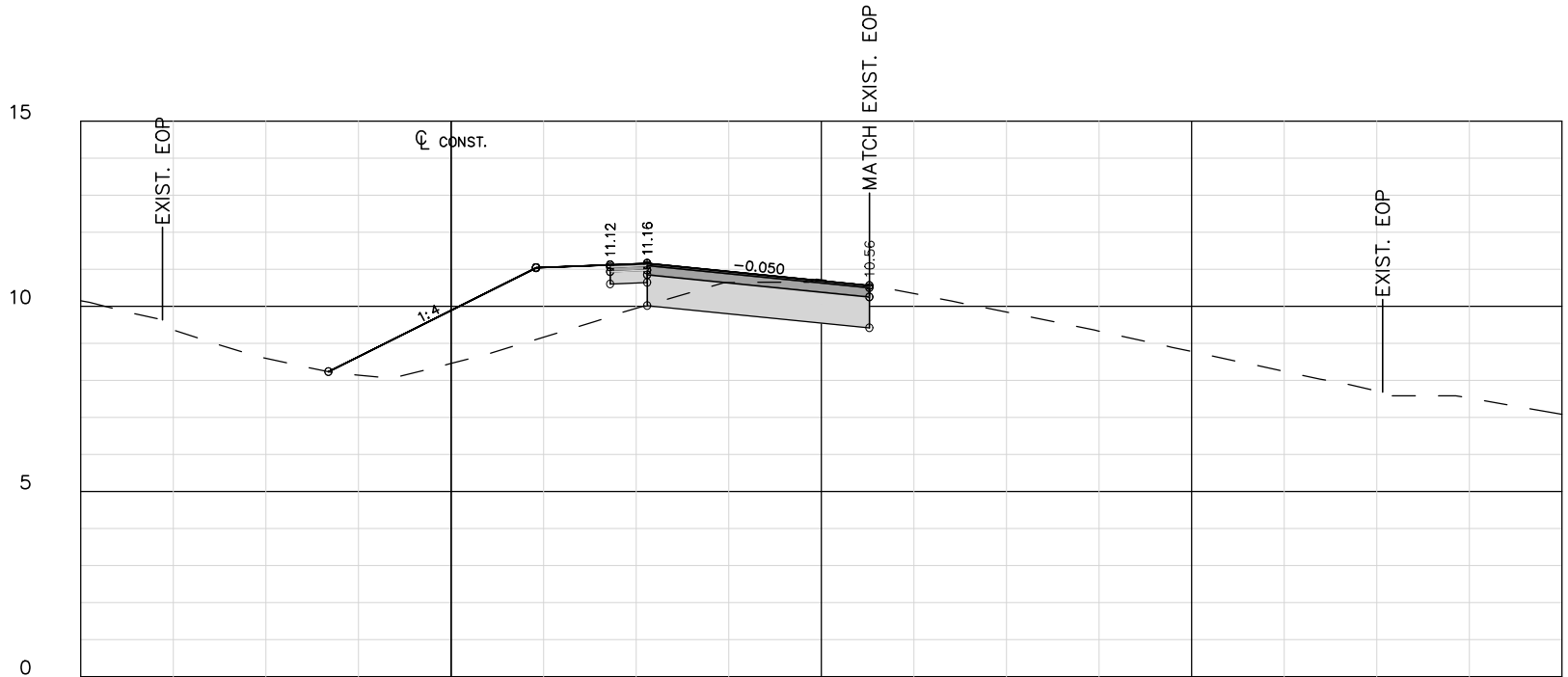
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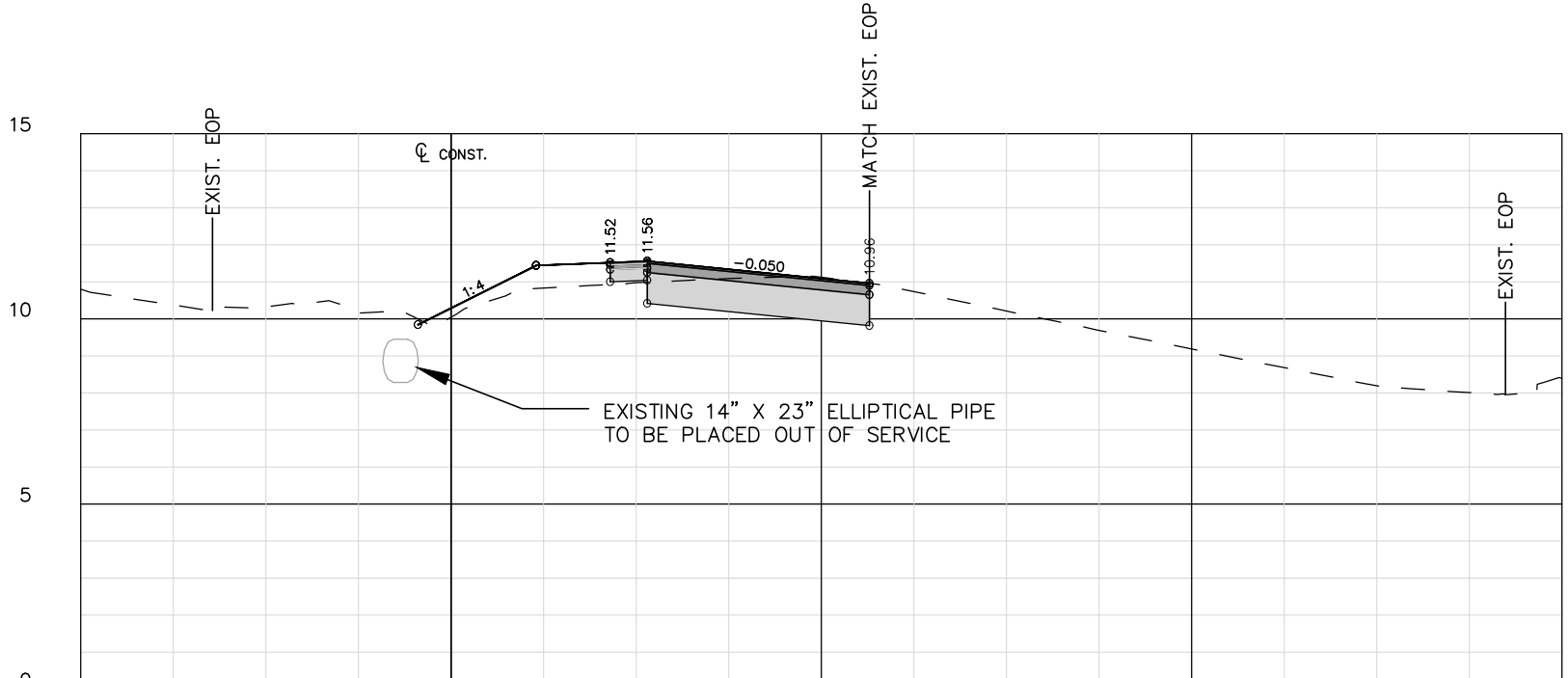
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147+50.00



148+00.00



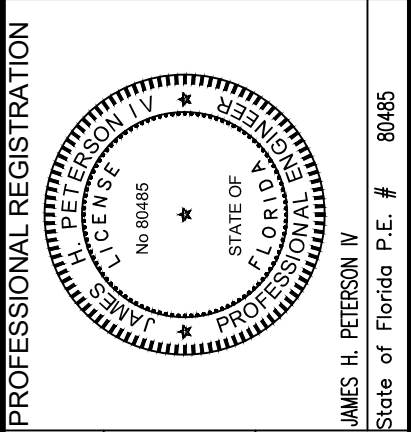
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EAST BOUND TURN LANE CROSS SECTIONS

HORIZ SCALE: 1" = 10' VERT. SCALE: 1" = 10'

PRELIMINARY
NOT FOR
CONSTRUCTION

CAMP HELEN STATE PARK	
SHEET TITLE	EAST BOUND TURN LANE CROSS SECTIONS
PROJECT TITLE	PARK IMPROVEMENT



DESIGNER :	SMU
DRAWN BY :	TJM
REVIEWED BY :	JHP
CONSULTANT :	George & Associates Consulting Engineers, Inc. ENGINEERING LICENSE NO. 20726 FL 32303 1927 Commonwealth Lane Tallahassee, FL 32303 PHONE 850/5210344 - FAX 850/5210345

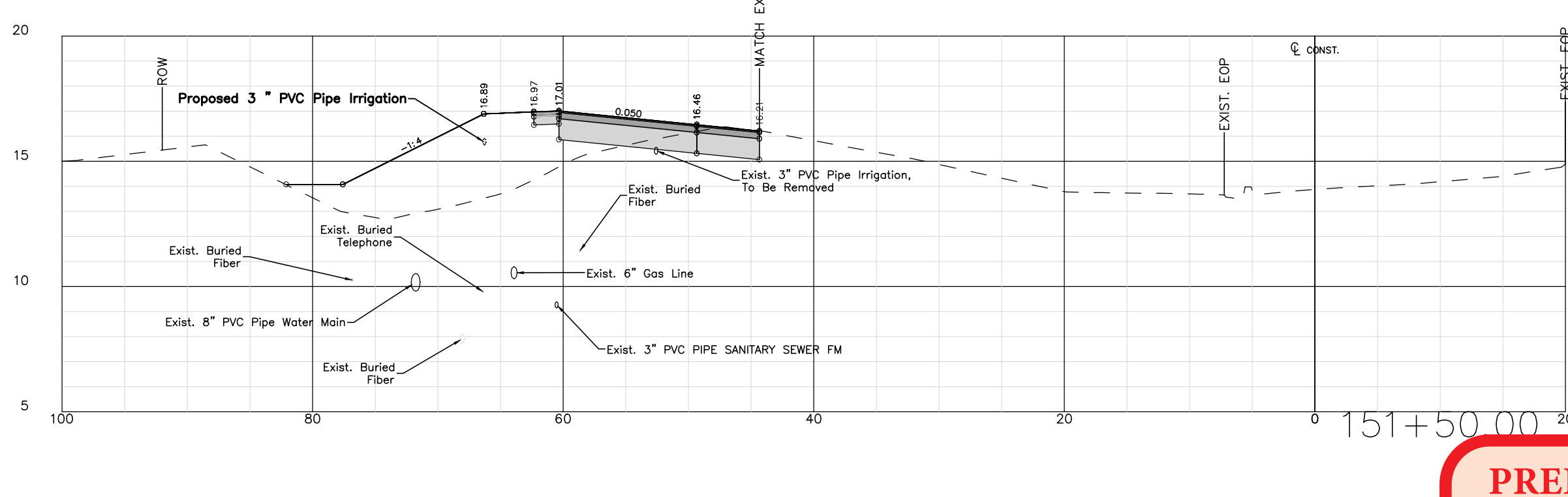
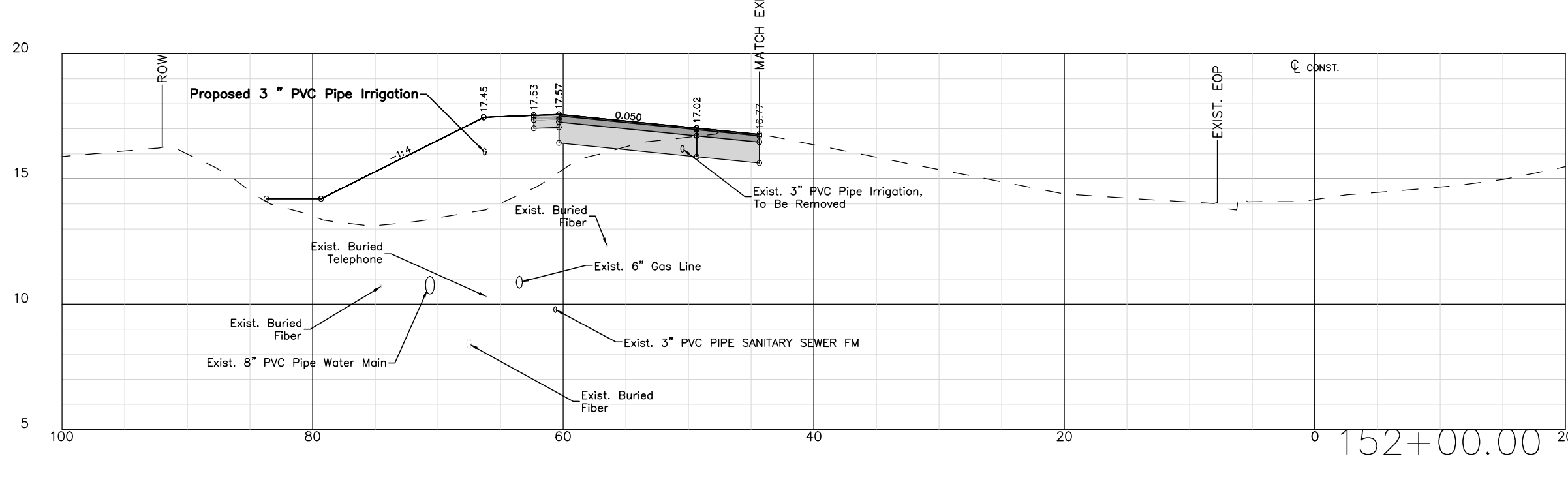
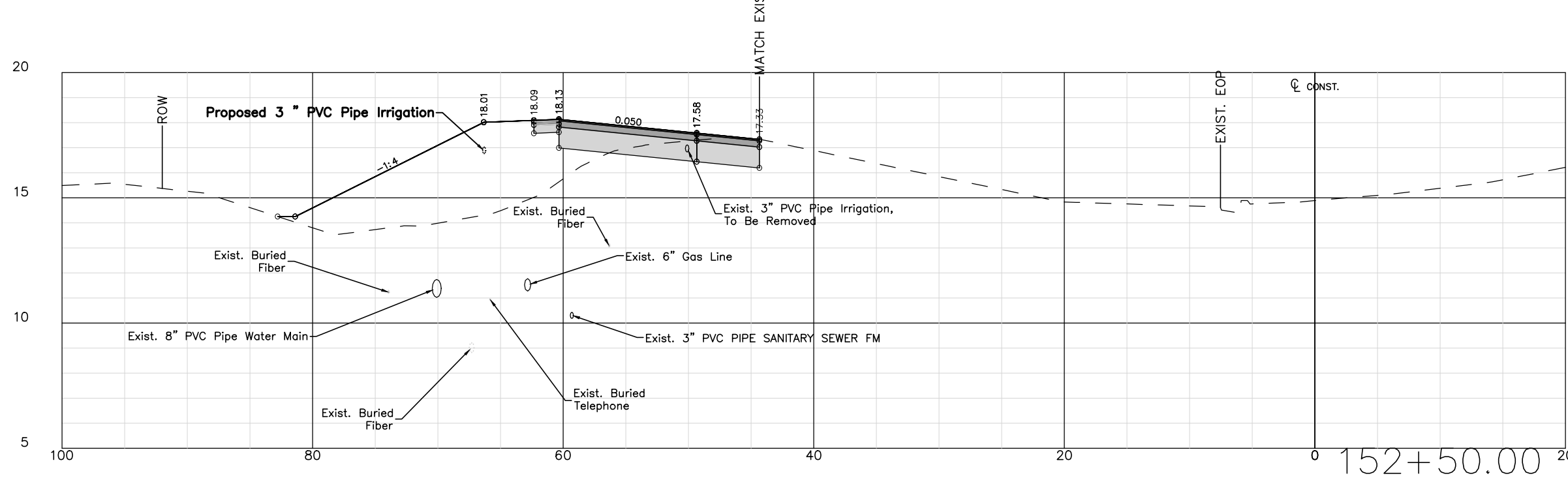
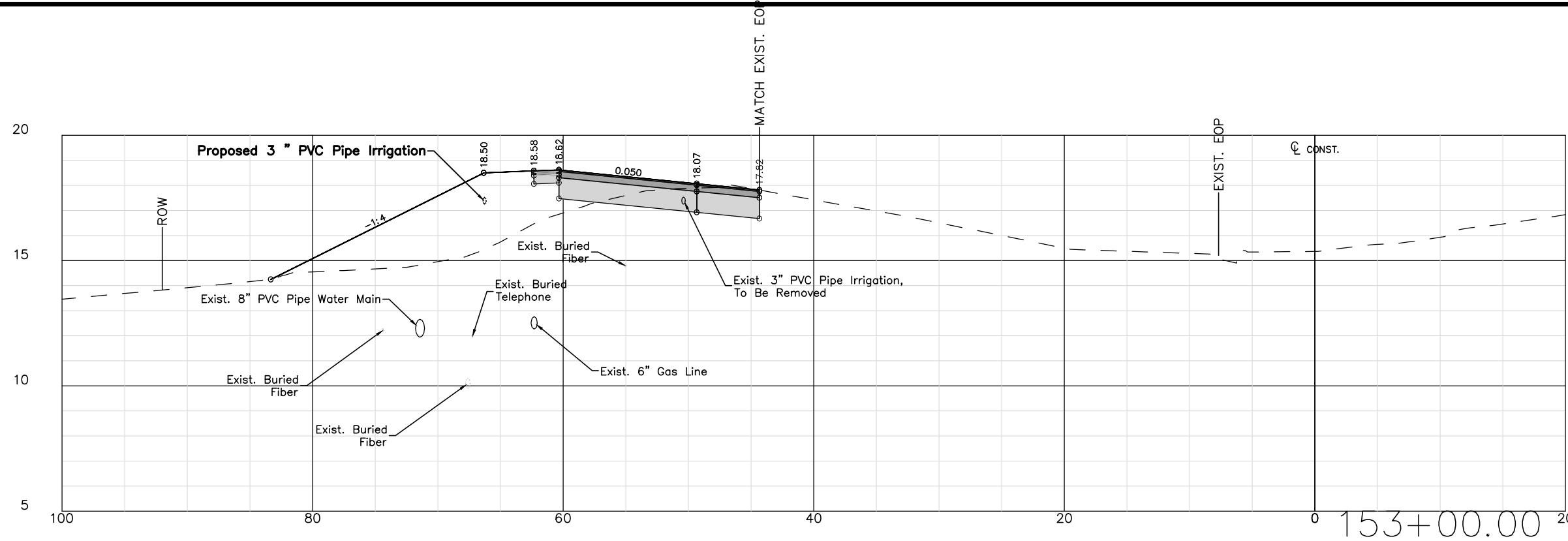
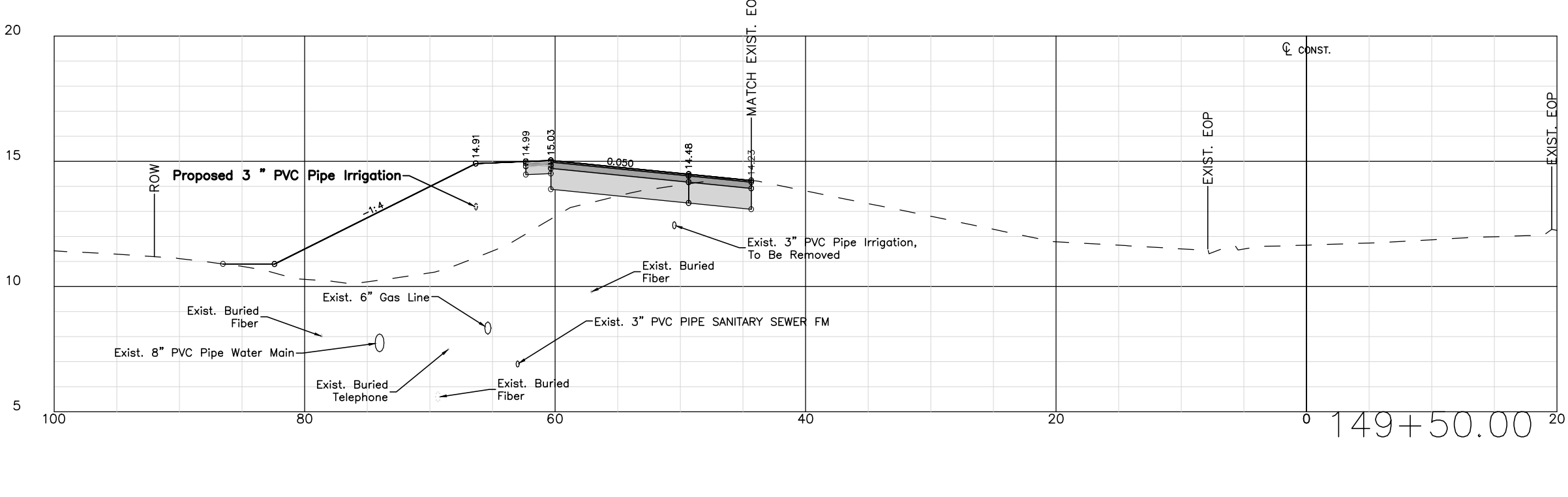
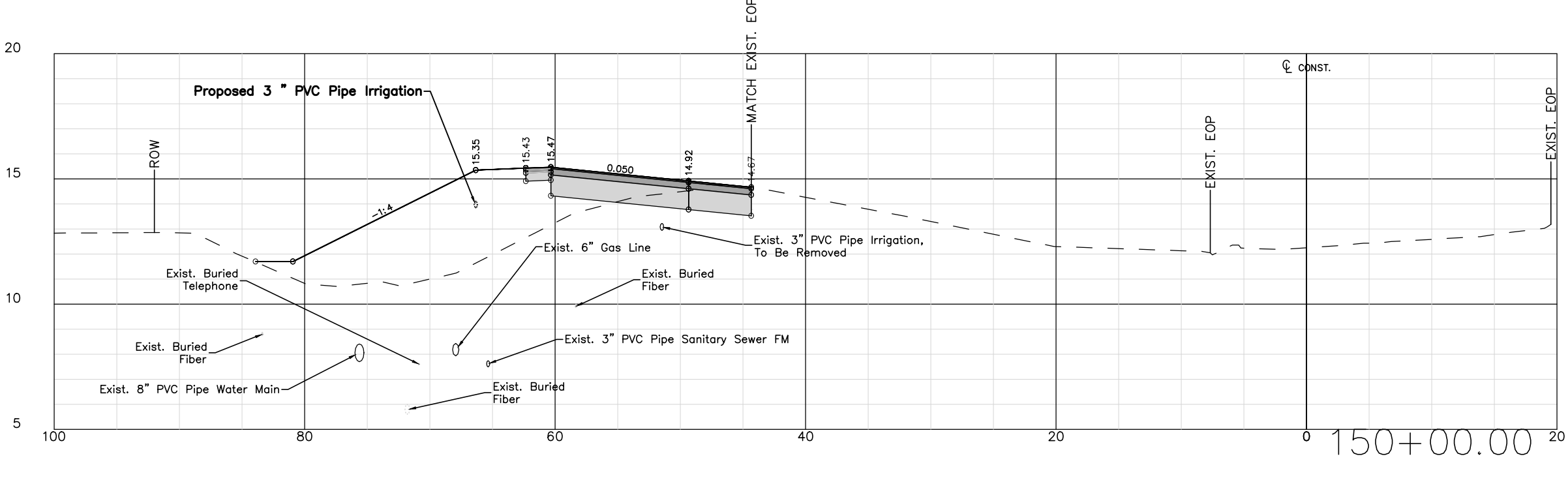
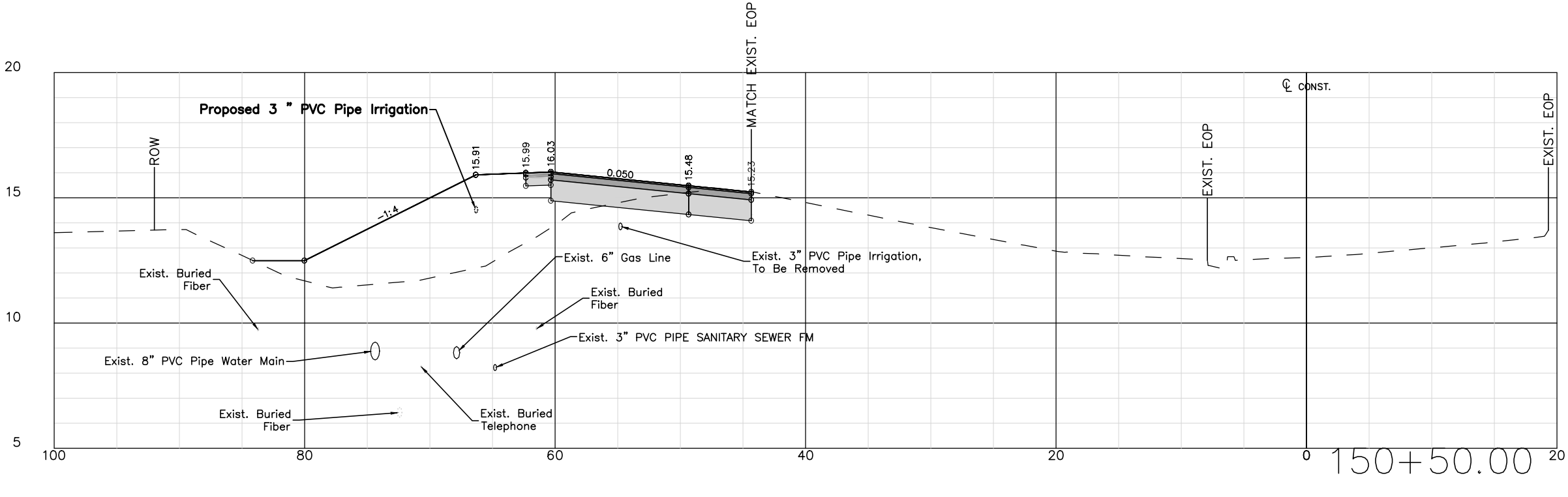
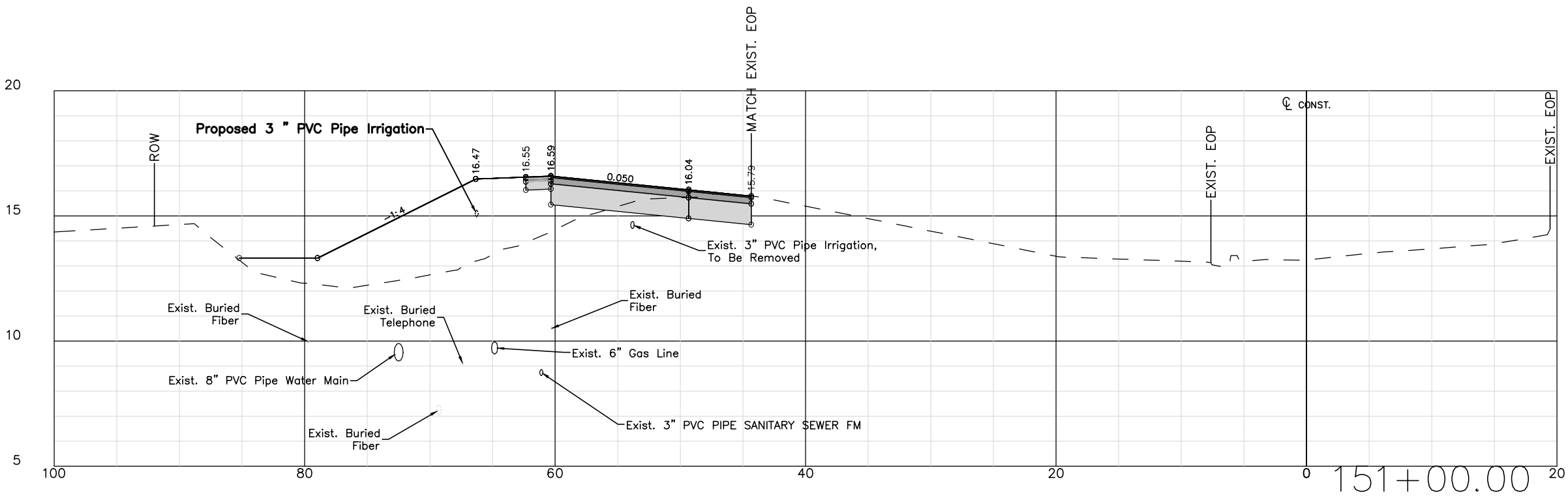
ISSUE DATE:	11/11/2024	100% PLANS	SYMBOL	REVISION	DATE
COMP. FILE NO.:	21-5436	STATE PROJECT NO.:	61307C-N3803		
Department of Environmental Protection		Division of Recreation and Parks		Bureau of Design and Construction	
3900 Commonwealth Boulevard, Tallahassee, FL 32399		(850) 245-2157			

Approved
4/24/2025 11:00:44
Lisa Ward
1/30/2025

J:\PETERSON November 1, 2024, p:\Project\21-5438\loc camp helen state park\Drawings\C408 Cross Sections\C408 North Turn Lane Cross Sections.dwg

WEST BOUND TURN LANE CROSS SECTIONS

HORIZ SCALE: 1" = 10' VERT. SCALE: 1" = 5'



PRELIMINARY
NOT FOR
CONSTRUCTION

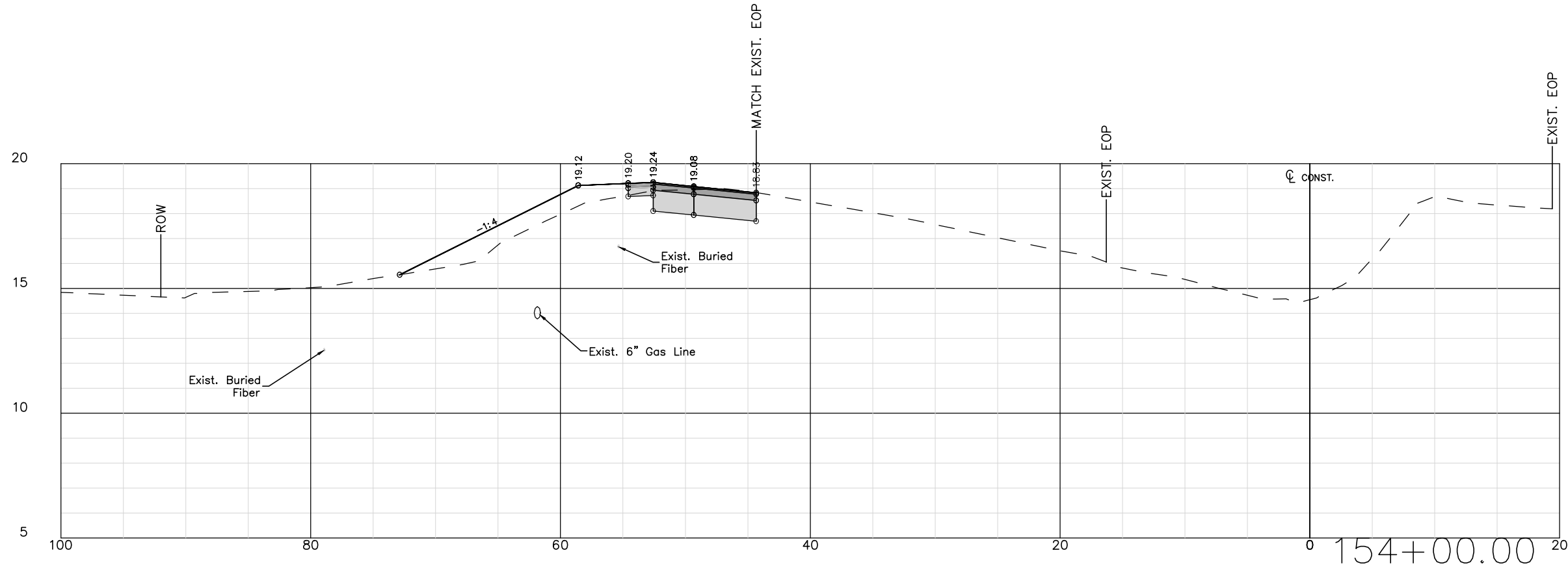
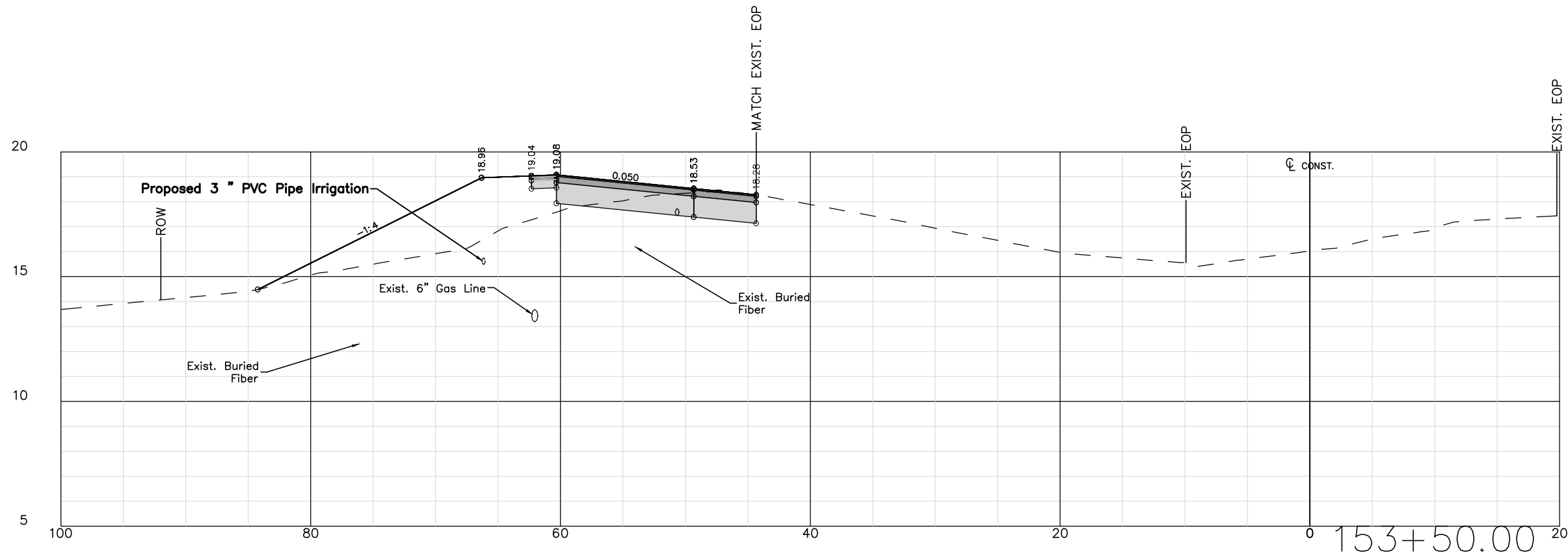
CAMP HELEN STATE PARK		DESIGNER: SMU	REVISION	SYMBOL	DATE
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SHEET NO.		ISSUE DATE: 11/11/2024 100% PLANS			
PROJECT TITLE		COMP. FILE NO.: 21-5438			
		STATE PROJECT NO: 61307C-N3803			
		George & Associates Consulting Engineers, Inc. ENGINEERING LICENSE NO. 20726 1927 Commonwealth Lane, Tallahassee, FL 32303 PHONE 850/5210344 FAX 850/5210345			
		Department of Environmental Protection Division of Recreation and Parks Bureau of Design and Construction 3900 Commonwealth Boulevard, Tallahassee, FL 32399 (850) 245-2157			
		PROFESSIONAL REGISTRATION JAMES H. PETERSON IV No. 80485 State of Florida P.E. # 80485			

C407
Approved
4/24/2025
Lisa Ward
1/30/2025

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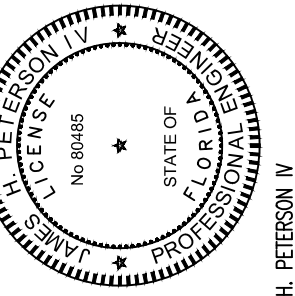
WEST BOUND TURN LANE CROSS SECTIONS

HORIZ SCALE: 1" = 10' VERT. SCALE: 1" = 5'



PRELIMINARY
NOT FOR
CONSTRUCTION

CAMP HELEN STATE PARK										PROFESSIONAL REGISTRATION									
SHEET TITLE										SHEET NO.									
WEST BOUND TURN LANE CROSS SECTIONS										C408									
PROJECT TITLE										JAMES H. FLEISCHMAN IV State of Florida P.E. # 80485									
SHEET NO.										C408									
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WEST BOUND TURN LANE CROSS SECTIONS										PARK IMPROVEMENT									
SHEET NO.										C408									

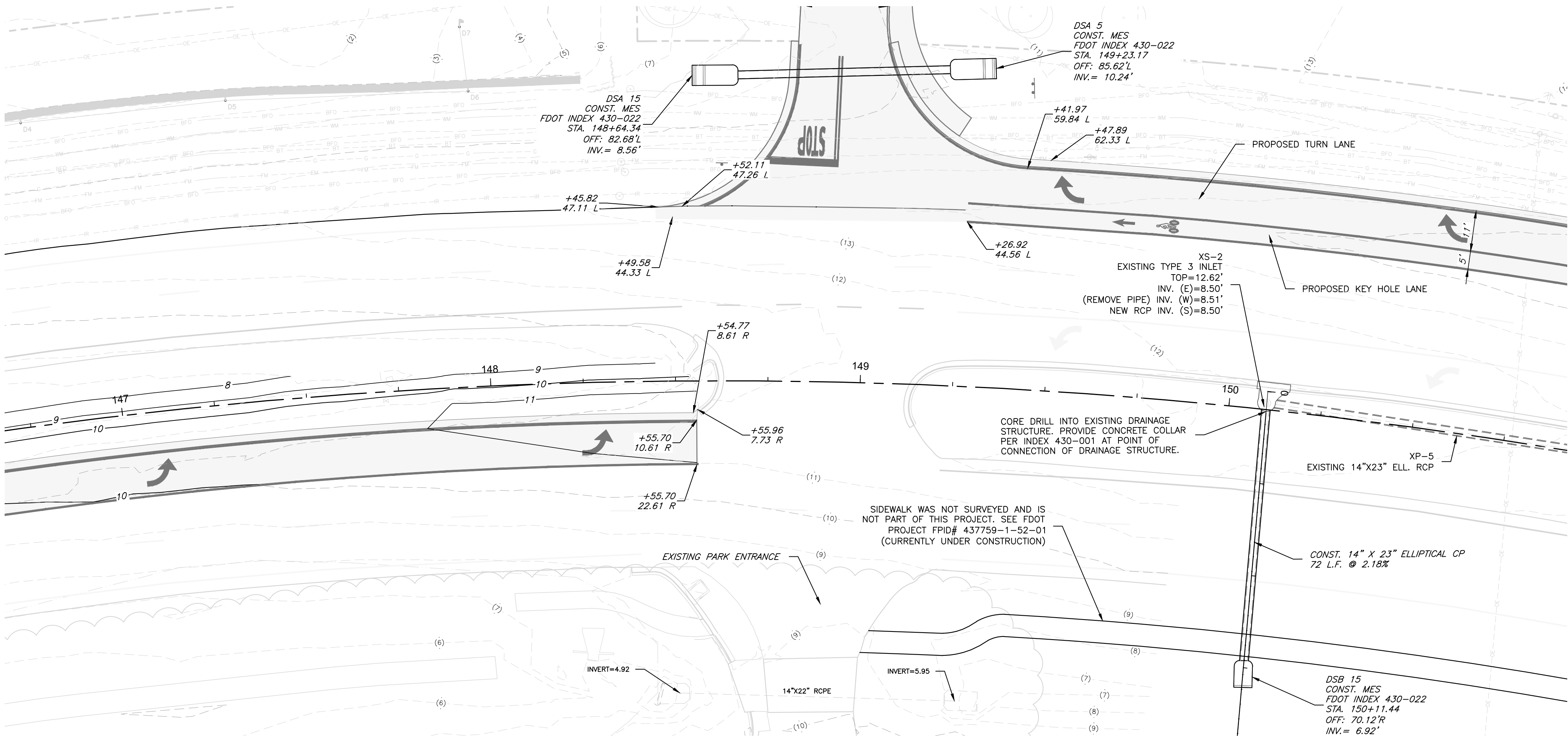


JAMES H. PETERSON IV
State of Florida P.E. # 80485

C408

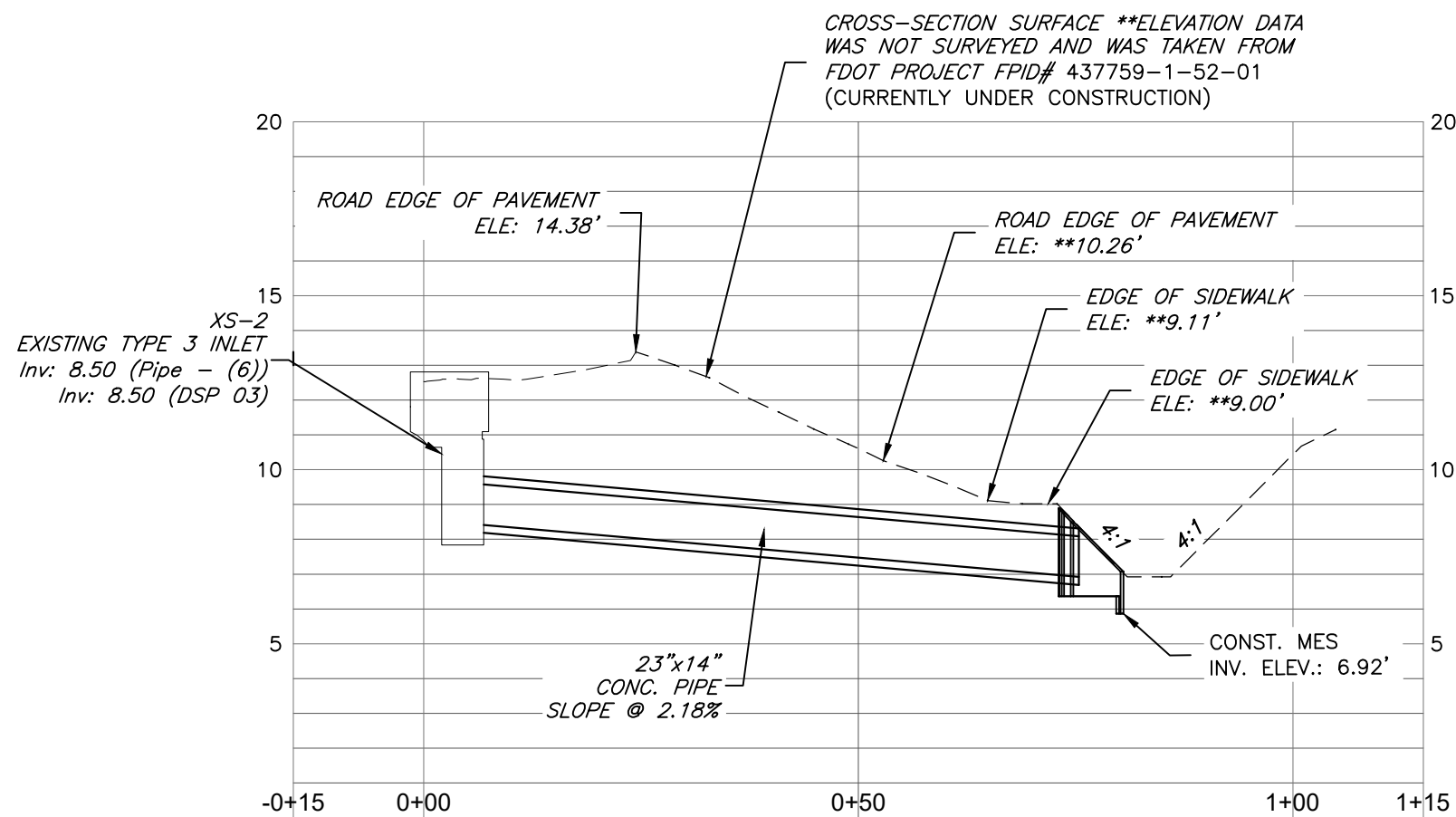
Approved
11/24/2024 11:00:44
Lisa Word
1/30/2025

J:\PETERSON November 19, 2024, p:\projects\21-5498\loc\camp helien state park\Drawings\CA501 Drainage\501 Drainage Plan Turn Lanes.dwg



DRAINAGE PLAN TURN LANE

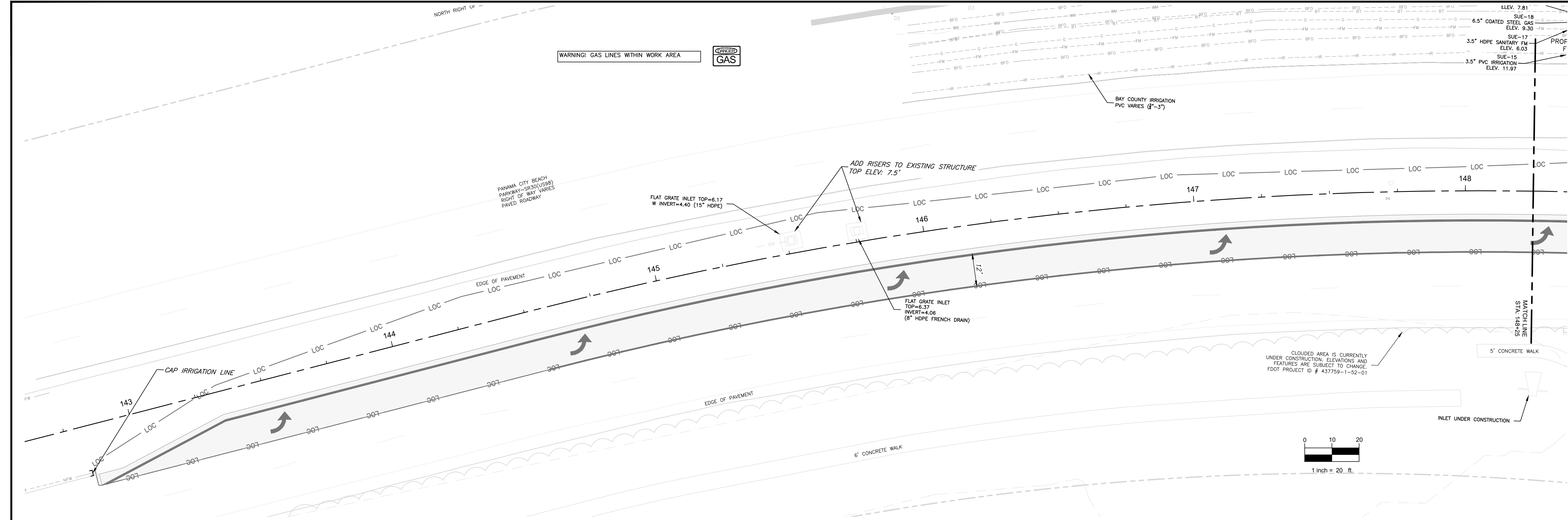
SCALE: 1" = 20'



DRAINAGE OUTFALL PROFILE

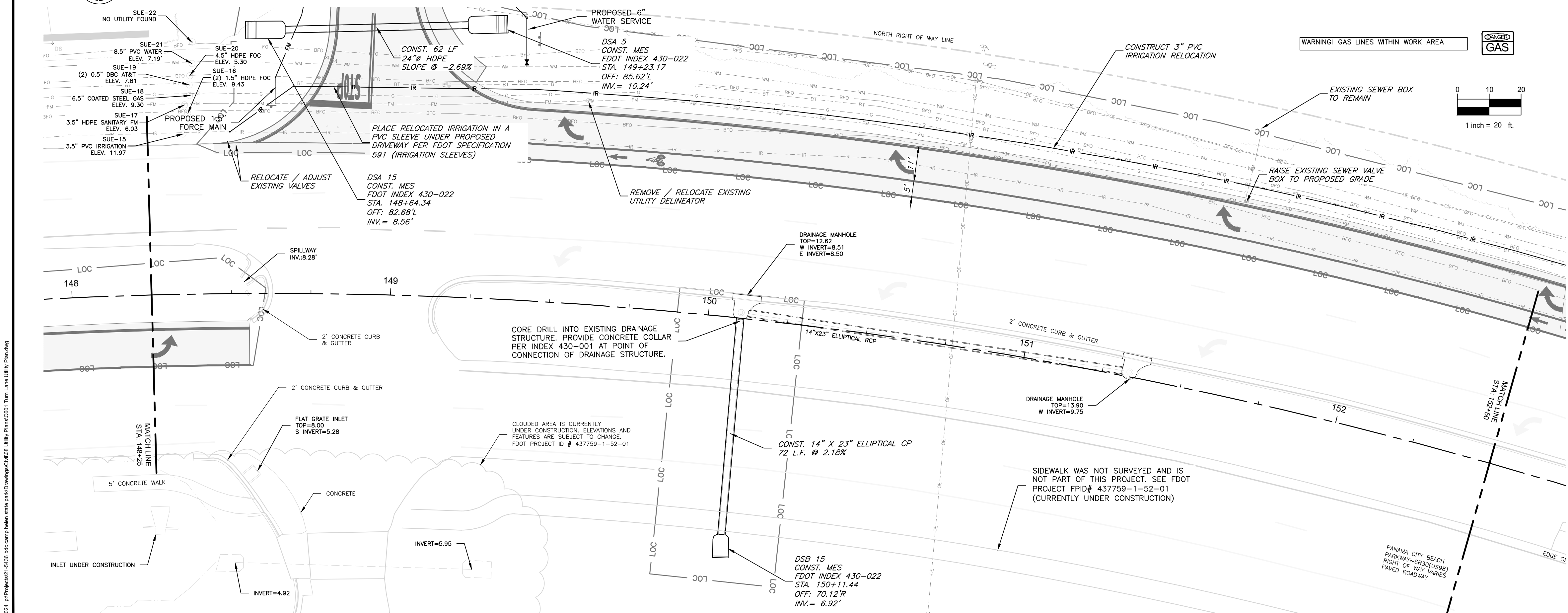
PRELIMINARY
NOT FOR
CONSTRUCTION

DATE	REVISION	SYMBOL	DATE	REVISION	SYMBOL	ISSUE DATE: 11/11/2024	100% PLANS	DESIGNER: SMU	PROFESSIONAL REGISTRATION	SHEET TITLE	PROJECT TITLE
						COMP. FILE NO. 21-5498	STATE PROJECT NO. 61307C-N3803	DRAWN BY: SMU	 JAMES H. PETERSON IV No. 80485 State of Florida P.E. # 80485	DRAINAGE PLAN TURN LANES	DRAINAGE PLAN TURN LANES
						REVIEWED BY: JHP		REVIEWED BY: JHP		PARK IMPROVEMENT	
Department of Environmental Protection Division of Recreation and Parks Bureau of Design and Construction 3900 Commonwealth Boulevard, Tallahassee, FL 32399 (850) 245-2157										George & Associates Consulting Engineers, Inc. CONSULTING ENGINEER 1907 Commonwealth Lane, Tallahassee, FL 32303 PHONE: 850/5210344 - FAX: 850/5210345	
C501										Approved 2024/11/19/2024 11/30/2025	



TURN LANE UTILITY PLAN

SCALE: 1" = 20'



TURN LANE UTILITY PLAN

SCALE: 1" = 20'

**PRELIMINARY
NOT FOR
CONSTRUCTION**

DATE	REVISION	SYMBOL	DATE	REVISION	SYMBOL
ISSUE DATE: 11/11/2024 100% PLANS					
COMP. FILE NO. 21-5436					
STATE PROJECT NO. 61307C-N3903					
DESIGNER: SMU					
DRAWN BY: SMU					
REVIEWED BY: JHP					
CONSULTANT: George & Associates Consulting Engineers, Inc.					
1907 Commonwealth Boulevard, Tallahassee, FL 32303					
PHONE: 850.521.0344 FAX: 850.521.0345					
PROFESSIONAL REGISTRATION					
JAMES H. PETERSON, P.E. # 89485					
CAMP HELEN STATE PARK					
TURN LANE UTILITY PLAN					
PARK IMPROVEMENT					
SHEET NO. C601					
PROJECT TITLE					

Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3900 Commonwealth Boulevard, Tallahassee, FL 32399 (850) 245-2157

George & Associates
Consulting Engineers, Inc.
1907 Commonwealth Boulevard
Tallahassee, FL 32303
PHONE: 850.521.0344 FAX: 850.521.0345

Approved
11/13/2024
11/30/2025

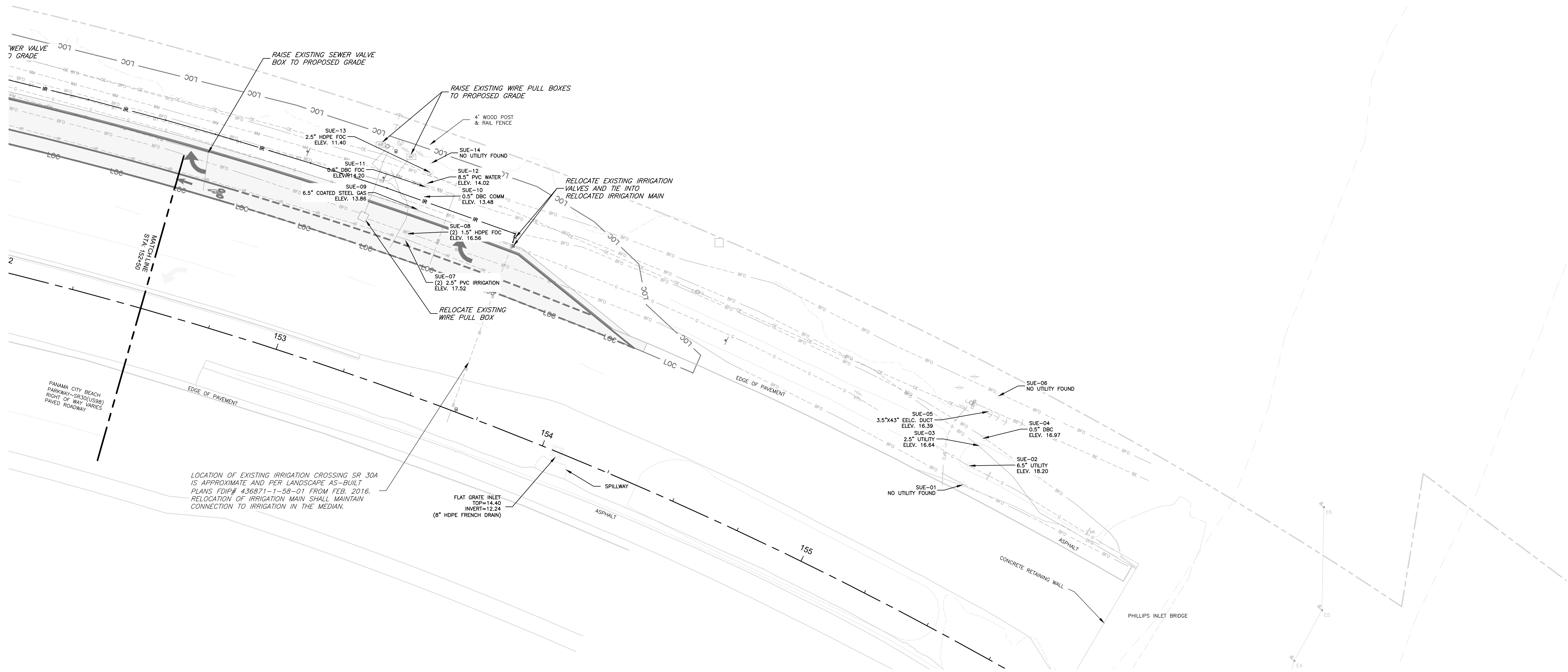
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TURN LANE UTILITY PLAN

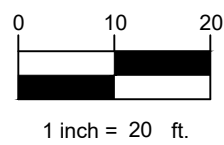
SCALE:1" = 20'

WARNING! GAS LINES WITHIN WORK AREA



LOCATION OF EXISTING IRRIGATION CROSSING SR 30A IS APPROXIMATE AND PER LANDSCAPE AS-BUILT PLANS FDP# 436871-1-59-01 FROM FEB. 2016. RELOCATION OF IRRIGATION MAIN SHALL MAINTAIN CONNECTION TO IRRIGATION IN THE MEDIAN.

FLAT GRATE INLET
TOP=14.40
INVERT=12.24
(8" HDPE FRENCH DRAIN)



1 inch = 20 ft.

**PRELIMINARY
NOT FOR
CONSTRUCTION**

CAMP HELEN STATE PARK

TURN LANE UTILITY PLAN

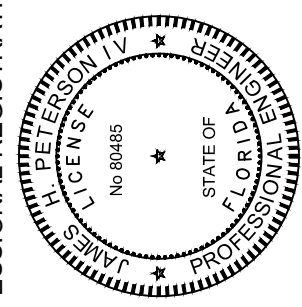
PARK IMPROVEMENT

SHEET TITLE

SHEET NO.

C602

PROFESSIONAL REGISTRATION



JAMES H. PETERSON IV
No. 88485
State of Florida P.E. # 88485

DESIGNER: SMU

DRAWN BY: SMU

REVIEWED BY: JHP

Consultant:



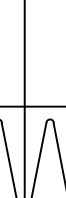
George & Associates
Consulting Engineers, Inc.
Civil - Environmental - Infrastructure - Water Planning - Land Use
1987 Commonwealth Lane, Suite 200 Tallahassee, FL 32303
PHONE: 850.521.0344 - FAX: 850.521.0345

ISSUE DATE: 11/11/2024 100% PLANS

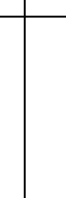
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STATE PROJECT NO.: 61307C-N3903

SYMBOL



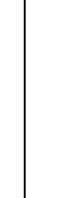
REVISION



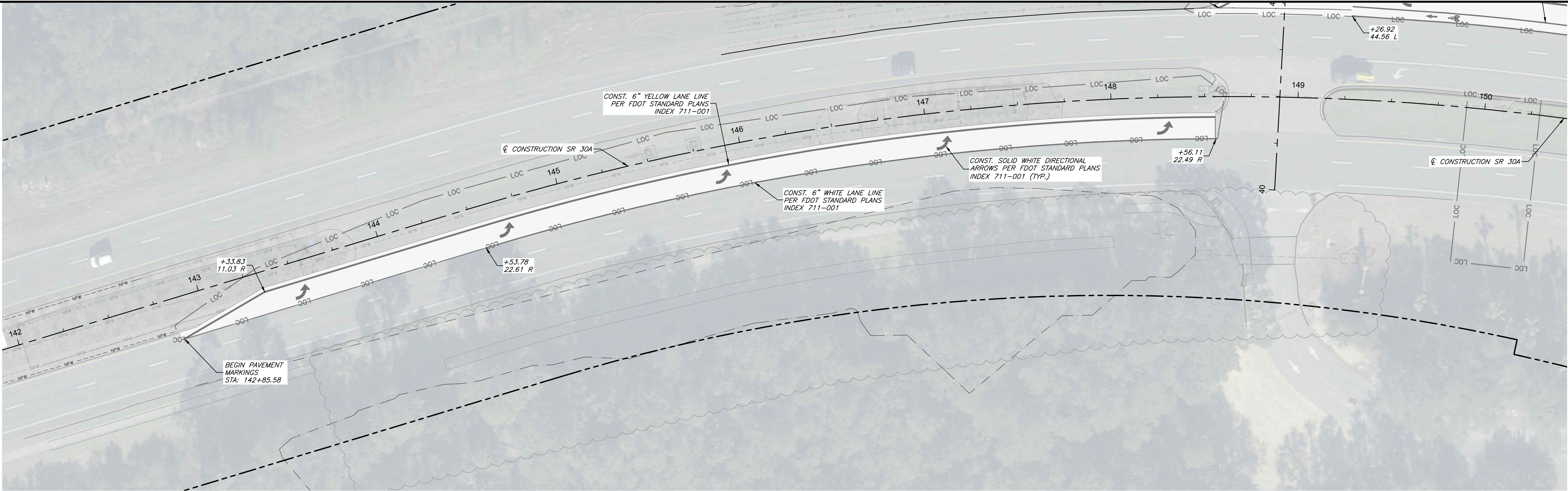
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DATE

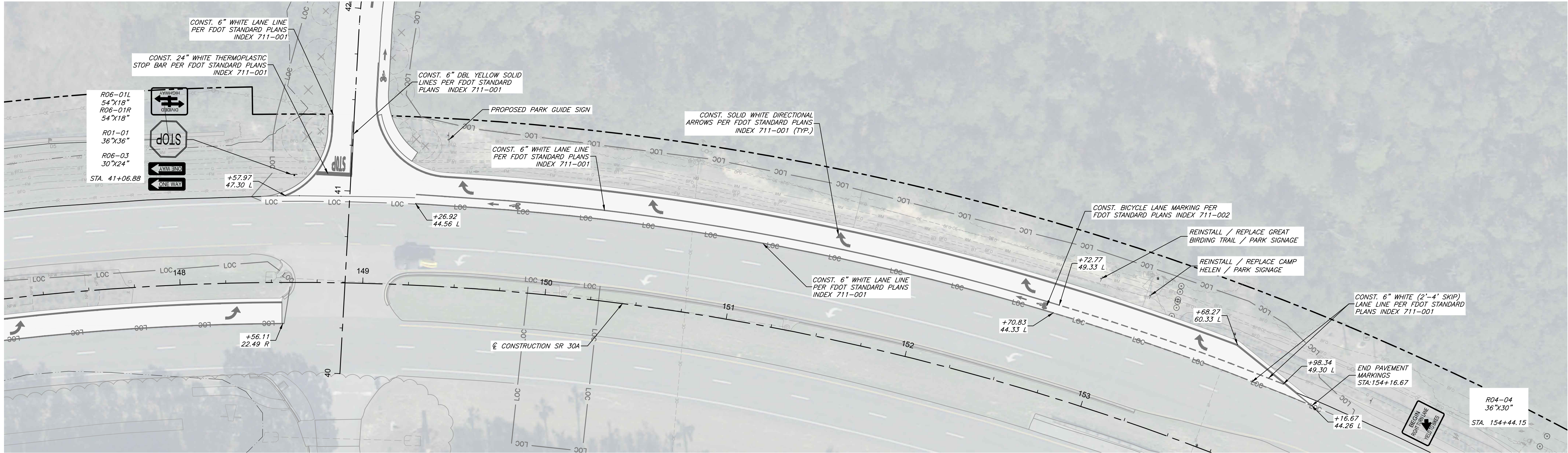
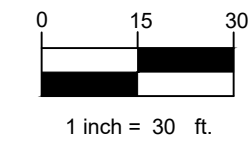


Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3900 Commonwealth Boulevard, Tallahassee, FL 32399 (850) 245-2157



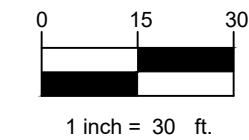
SIGNAGE & PAVEMENT MARKING PLAN

SCALE: 1" = 30'



SIGNAGE & PAVEMENT MARKING PLAN

SCALE: 1" = 30'



**PRELIMINARY
NOT FOR
CONSTRUCTION**

SHEET NO.		CAMP HELEN STATE PARK		PROFESSIONAL REGISTRATION		George & Associates Consulting Engineers, Inc. ONE E. TOWNSEND AVENUE, SUITE 200 TALLAHASSEE, FL 32303 PHONE: 850/5210344 - FAX: 850/5210345		George & Associates Consulting Engineers, Inc. ONE E. TOWNSEND AVENUE, SUITE 200 TALLAHASSEE, FL 32303 PHONE: 850/5210344 - FAX: 850/5210345		ISSUE DATE: 11/11/2024 100% PLANS COMP. FILE NO.: 21-5436 STATE PROJECT NO.: 61307C-N3903		SYMBOL DATE REVISION		SYMBOL DATE REVISION	
SHEET TITLE		SIGNAGE & PAVEMENT MARKING PLAN						DESIGNER: SMU DRAWN BY: SMU REVIEWED BY: JHP				SYMBOL DATE REVISION		SYMBOL DATE REVISION	
PROJECT TITLE		PARK IMPROVEMENT		JAMES H. PETERSON IV State of Florida P.E. # 80485											





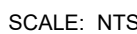
NOTES:

- 1.) NO CUTS SHALL BE MADE BEFORE:
 - (A) A TEST OF 150 P.S.I. FOR 30 MINUTES IS MADE.
- 2.) ALL TAPS MUST BE OF A SMALLER SIZE THAN THE MAIN BEING TAPPED & PLACED NO CLOSER THAN 30" OR A DISTANCE EQUAL TO (1) MAIN PIPE DIAMETER PLUS (2) TAP PIPE DIAMETERS (WHICHEVER IS LARGER) FROM A JOINT OR FITTING.
- 3.) CONTRACTOR SHALL ADHERE TO INLET BEACH WATER SYSTEM SPECIFICATIONS
- 3.) CONTRACTOR TO SUPPLY A DRY HOLE FOR TAPPING CREW TO WORK AND A BACK-HOE TO LOWER MACHINE INTO HOLE.

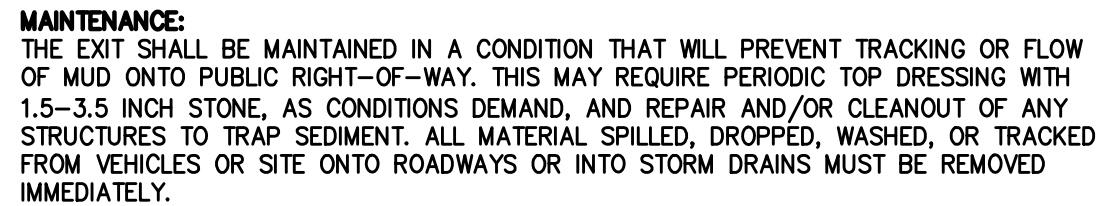
SCALE: NTS



SCALE: NTS

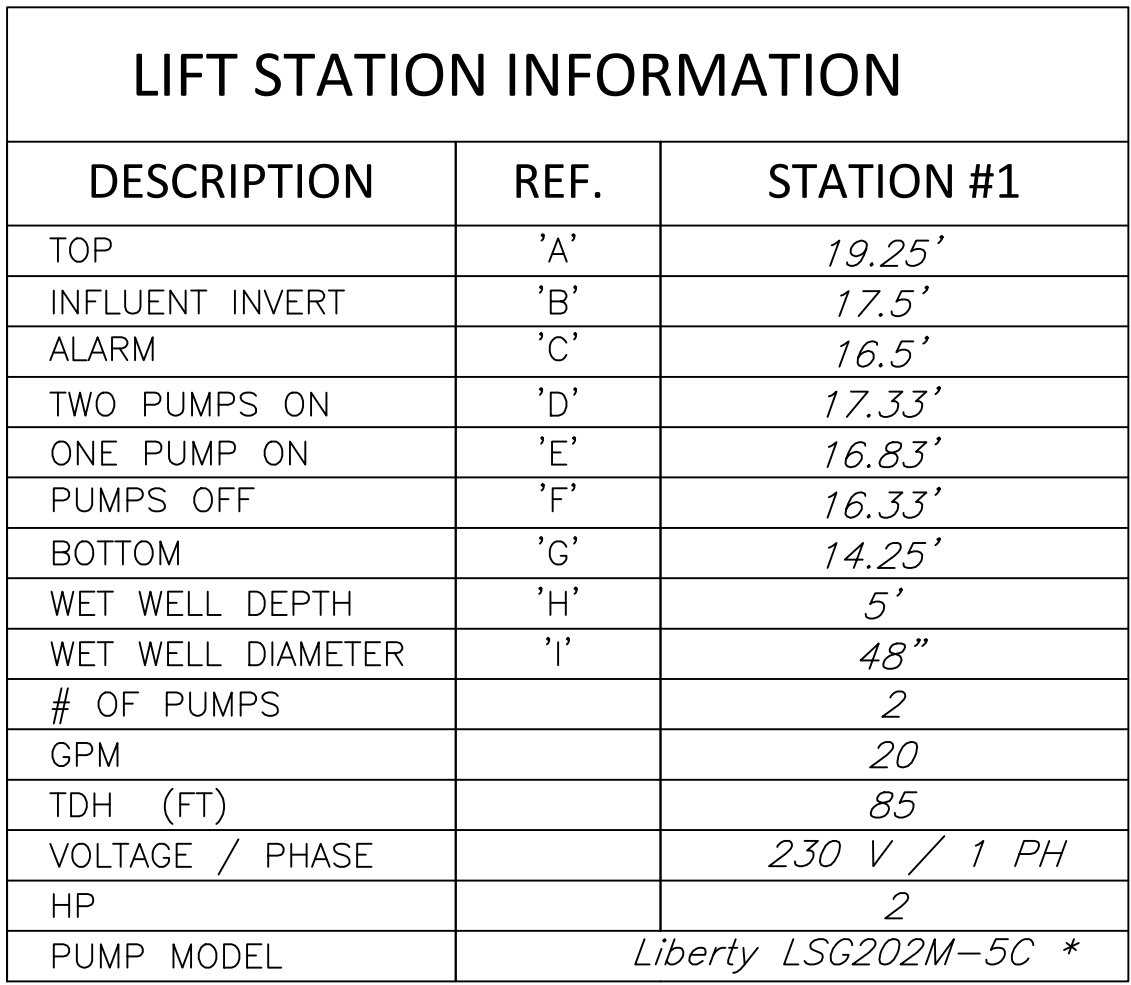


**PRELIMINARY
NOT FOR
CONSTRUCTION**



1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
3. THE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).
4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
5. PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 20'.
7. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
8. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
9. WASHRAKES AND/OR TRUCK WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRAKE DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
10. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
11. THE GEOTEXTILE UNDERLINER MUST BE PLACED THE FULL LENGTH AND WIDTH OF THE ENTRANCE. GEOTEXTILE SELECTION SHALL BE BASED ON AASHTO M288-06 SPECIFICATION:
 - A. FOR SUBGRADES WITH CBR GREATER THAN OR EQUAL TO 3 OR SHEAR STRENGTH GREATER THAN 90 kPa, GEOTEXTILE MUST MEET REQUIREMENTS OF SECTION AASHTO M288-06 SECTION 7.3, SEPARATION REQUIREMENTS.
 - B. FOR SUBGRADES WITH CBR BETWEEN 1 AND 3 OR SHEAR STRENGTH BETWEEN 30 AND 90 kPa, GEOTEXTILE MUST MEET REQUIREMENTS OF SECTION AASHTO M288-06 SECTION 8, GEOTEXTILE PROPERTY REQUIREMENTS FOR SUBSURFACE DRAINAGE, SEPARATION, STABILIZATION, AND PERMANENT EROSION CONTROL (GEOTEXTILE PROPERTY REQUIREMENTS).

Co **CONSTRUCTION EXIT**
NOT TO SCALE



LID ASSEMBLY WITH PENTAGON HEAD PLUG
MATERIAL: CAST IRON

EXTENSION TYPE CURB BOX WITH ARCH PATTERN BASE
MATERIAL: ABS

AVAILABLE LENGTHS:

AVAILABLE LENGTHS:	PART NUMBER
18-30"	PB09.30C01
30-42"	PB09.30C02
36-54"	PB09.30C03
42-66"	PB09.30C04
48-78"	PB09.30C05
60-102"	PB09.30C06

NOTES:

1. TO BE INSTALLED BY FOLLOWING ALL MANUFACTURER INSTALLATION INSTRUCTIONS
2. ASSEMBLY IS TO BE PRESSURE TESTED

1.5" PVC FORCE MAIN PIPE

TO MAIN

VALVE CURB STOP WITH FEMALE PIPE THREADS AND VALVE POSITION STOPS (OPEN/CLOSED) WITH INTEGRAL CHECK VALVE
MATERIAL: STAINLESS STEEL

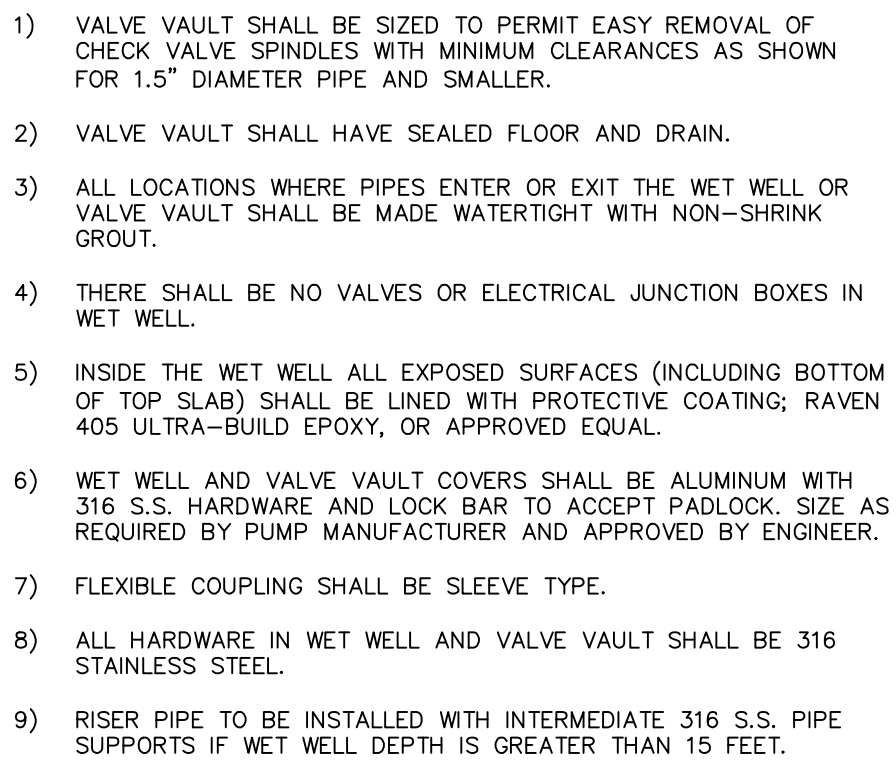
COMPRESSION ADAPTER FITTING
MATERIAL: POLYPROPYLENE

COMPRESSION ADAPTER FITTING
MATERIAL: POLYPROPYLENE

1.5" PVC PIPE

TO PUMP

SCALE: NTS

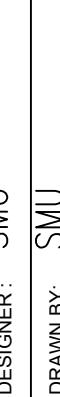


The graph displays the performance of two pump models: LSGX 2-Stage and LSG Single-Stage. The x-axis represents flow rate in US Gallons Per Minute (0 to 60) and Liters Per Minute (0 to 200). The left y-axis represents Total Head in Feet (0 to 200), and the right y-axis represents Total Head in Meters (0 to 60). The LSGX 2-Stage pump (steeper curve) has a maximum head of approximately 187 feet at 0 GPM. The LSG Single-Stage pump (flatter curve) has a maximum head of approximately 107 feet at 0 GPM. Both pumps show a sharp drop in head as flow rate increases beyond their respective design points. An operating point is marked at 20 GPM and 87 feet head, which corresponds to the LSG Single-Stage pump's performance at that flow rate.

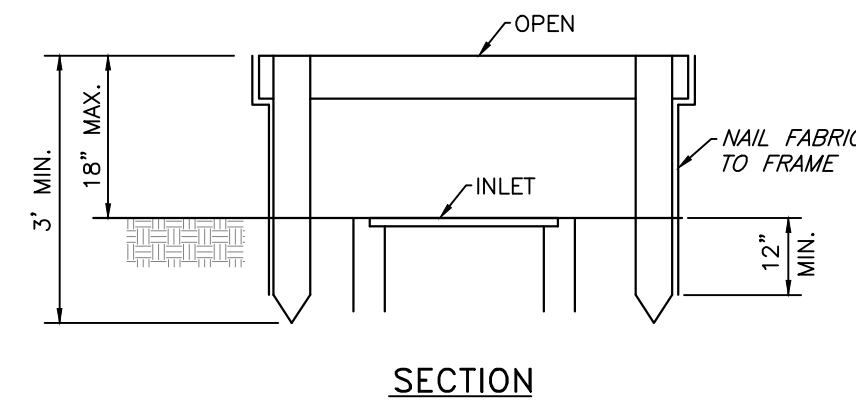
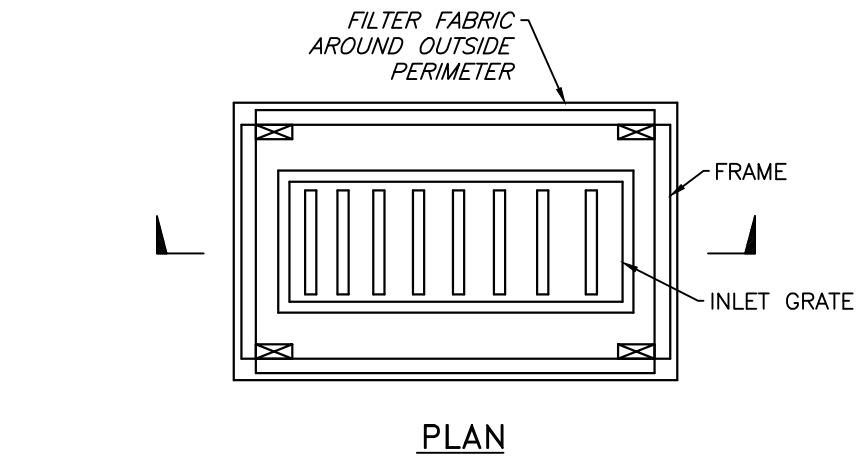
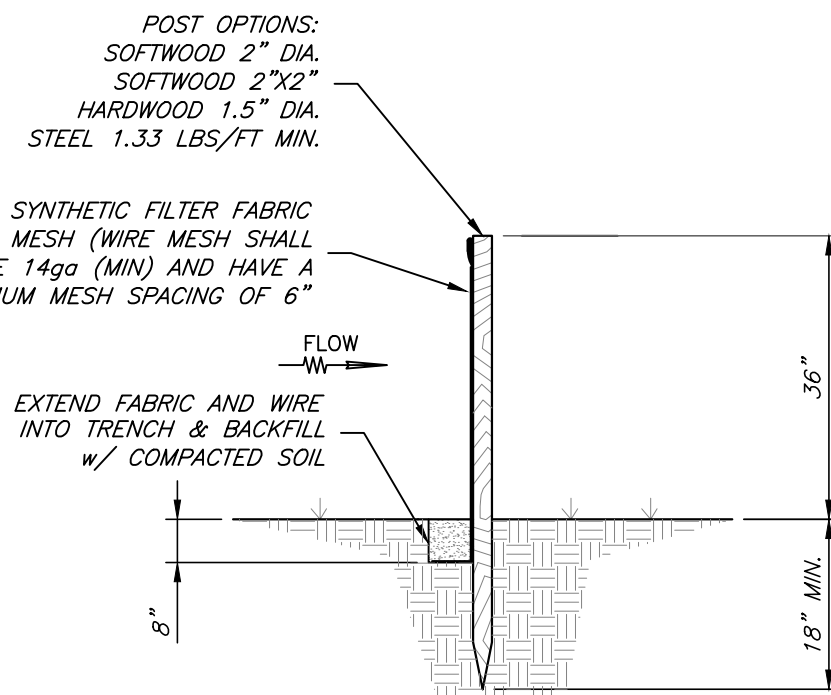
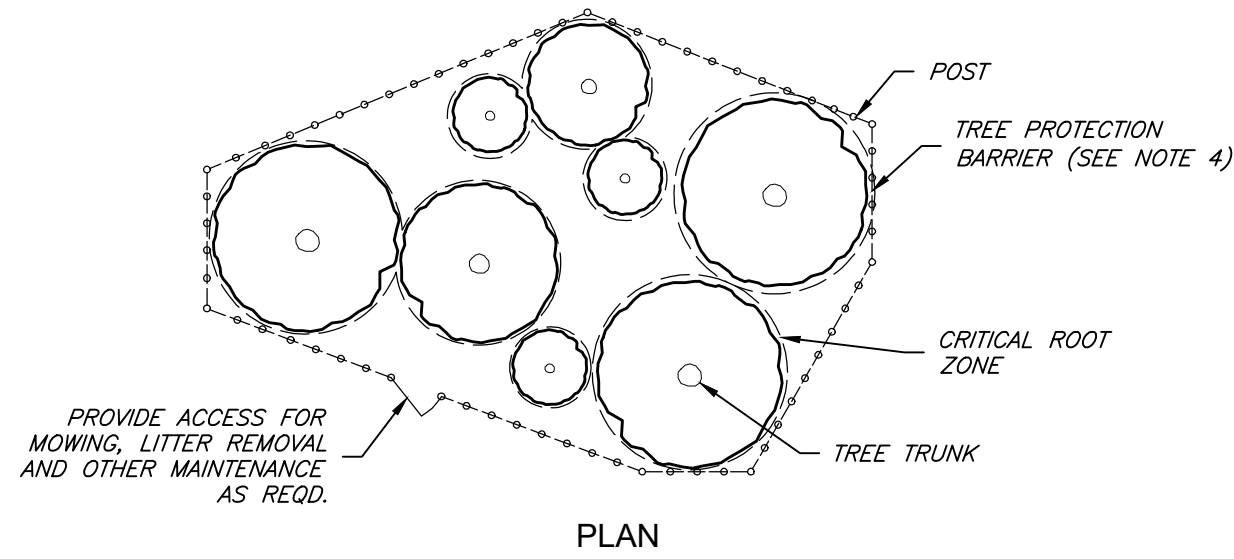
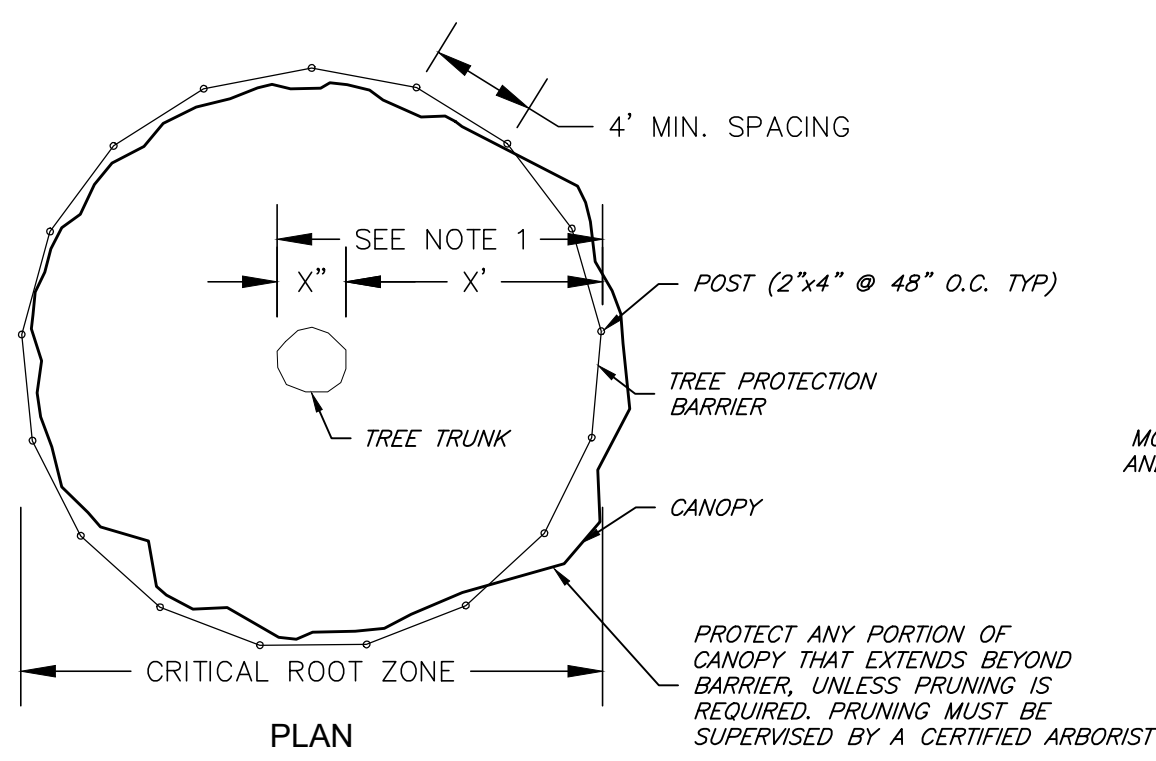
Flow Rate (GPM)	Flow Rate (LPM)	LSGX 2-Stage Head (Feet)	LSGX 2-Stage Head (Meters)	LSG Single-Stage Head (Feet)	LSG Single-Stage Head (Meters)
0	0	187	54	107	31
10	38	150	43	95	27
20	75	113	33	87	25
30	113	76	22	75	22
40	150	39	11	63	18
50	188	2	0.6	51	15

SCALE: N.T.S.

**PRELIMINARY
NOT FOR
CONSTRUCTION**

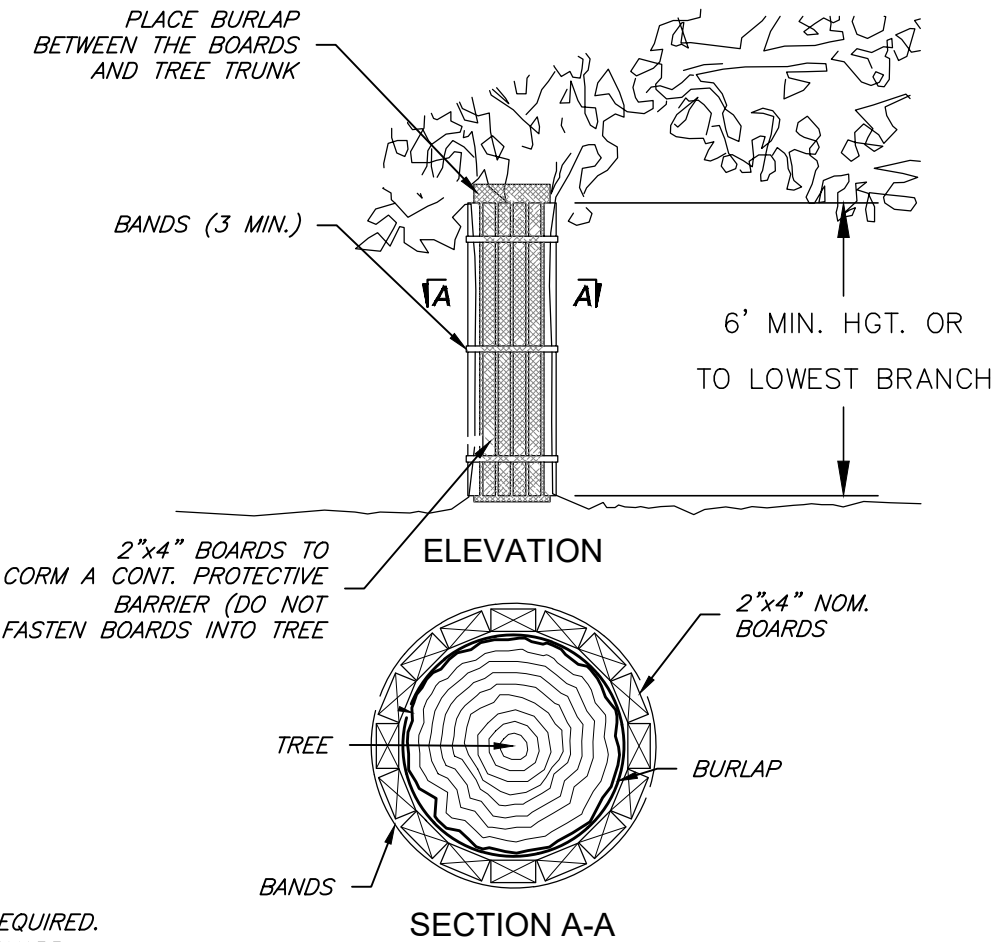
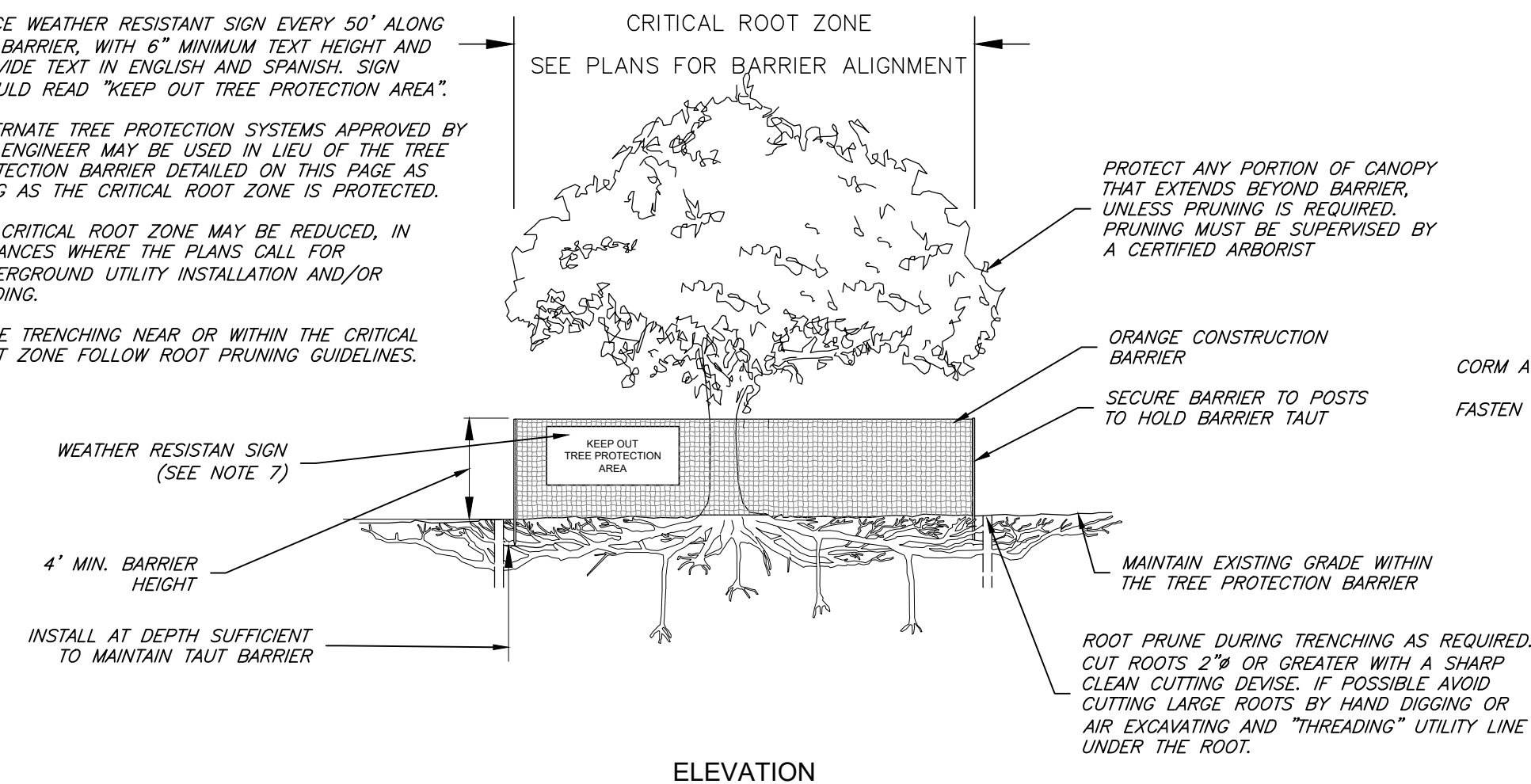
C903	CAMP HELEN STATE PARK		PROFESSIONAL REGISTRATION	
	CONSTRUCTION DETAILS			
	PARK IMPROVEMENT		JAMES H. PETERSON, P.E. # 80485 State of Florida P.E. # 80485	
SHEET NO.	SHEET TITLE			
PROJECT TITLE				
Designer: SMU Drawn By: SMU Reviewed By: JHP Consultant:		George & Associates Consulting Engineers, Inc. ONE THIRTY-THREE WEST WINDY AVENUE ENGLEWOOD CLIFFS, FL 32935 1867 Commonwealth Lane, Suite 200, Tallahassee, FL 32303 PHONE: (904) 241-0044 FAX: (904) 241-0045		
Issue Date: 11/11/2024 100% PLANS Comp. File No: 21-5436 State Project No: 61307C-N3903		Department of Environmental Protection Division of Recreation and Parks Bureau of Design and Construction 3900 Commonwealth Boulevard, Tallahassee, FL 32399 (850) 245-2157		
DATE		SYMBOL		REVISION

1. CRITICAL ROOT ZONE; EXTENDS IN ALL DIRECTIONS FROM TREE TRUNK TO A DISTANCE EQUAL TO ONE FOOT PER INCH OF TRUNK DIAMETER AT BREAST HEIGHT.
2. STAGING, STORAGE, DUMPING, WASHING AND OPERATION OF EQUIPMENT IS NOT PERMITTED WITHIN THE LIMITS OF THE TREE PROTECTION BARRIER, INCLUDING DURING BARRIER INSTALLATION.
3. INSTALL ALL TREE PROTECTION PRIOR TO COMMENCEMENT OF CONSTRUCTION AND REMOVE WHEN POTENTIALLY DAMAGING CONSTRUCTION ACTIVITIES ARE FINISHED IN THE VICINITY OF THE PROTECTED TREES.
4. FOR CLOSELY SPACED GROUPS OF TREES, PLACE THE TREE PROTECTION BARRIER AROUND THE ENTIRE GROUP.
5. INSPECT TRUNK PROTECTION AND TREE QUARTERLY TO PREVENT GIRDLING. ADJUST BANDS TO ALLOW TREE GROWTH AS NEEDED.
6. SEE PLANS FOR ANY ADDITIONAL REQUIREMENTS OR MODIFICATIONS WITHIN THE TREE PROTECTION AREA.
7. PLACE WEATHER RESISTANT SIGN EVERY 50' ALONG THE BARRIER, WITH 6" MINIMUM TEXT HEIGHT AND PROVIDE TEXT IN ENGLISH AND SPANISH. SIGN SHOULD READ "KEEP OUT TREE PROTECTION AREA".
8. ALTERNATE TREE PROTECTION SYSTEMS APPROVED BY THE ENGINEER MAY BE USED IN LIEU OF THE TREE PROTECTION BARRIER DETAILED ON THIS PAGE AS LONG AS THE CRITICAL ROOT ZONE IS PROTECTED.
9. THE CRITICAL ROOT ZONE MAY BE REDUCED, IN INSTANCES WHERE THE PLANS CALL FOR UNDERGROUND UTILITY INSTALLATION AND/OR GRADING.
10. WHILE TRENCHING NEAR OR WITHIN THE CRITICAL ROOT ZONE FOLLOW ROOT PRUNING GUIDELINES.



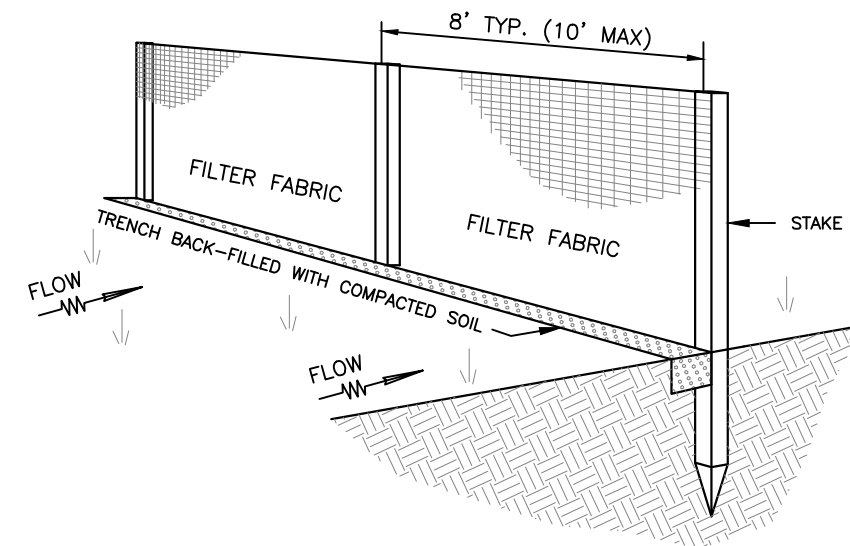
INLET PROTECTION

N.T.S. EC-013

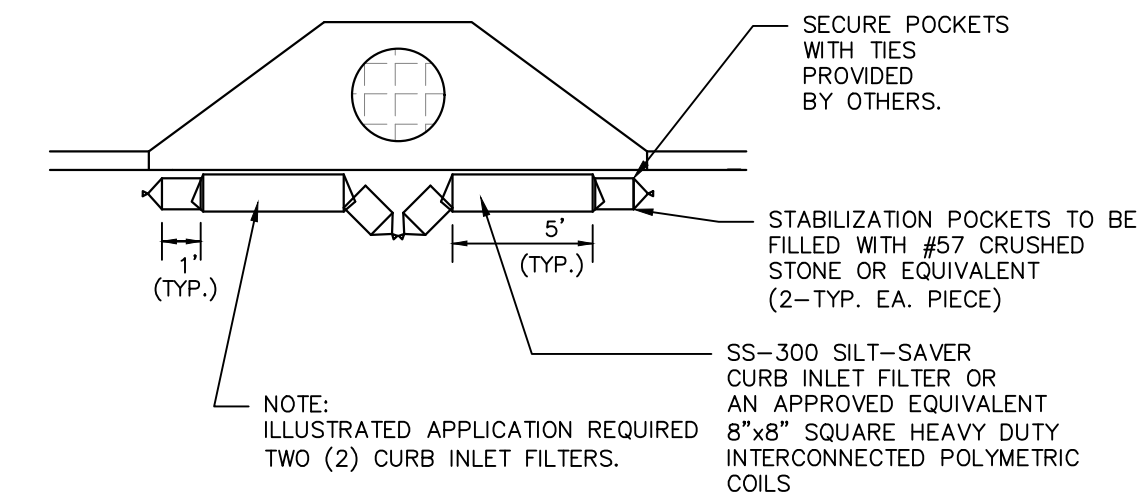


SEDIMENT BARRIER DETAILS

N.T.S. EC-006



EC-006



INSTALLATION

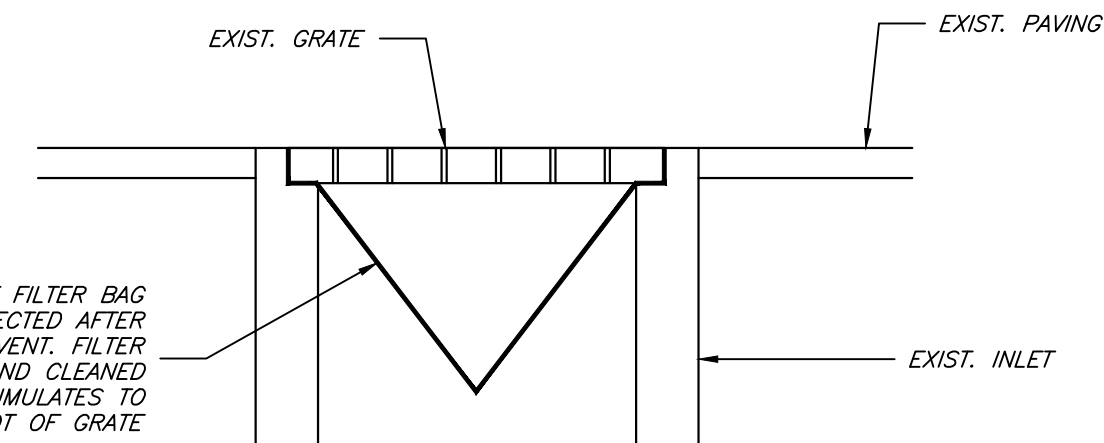
1. IDENTIFY OPENING DIMENSIONS TO DETERMINE HOW MANY FILTERS ARE REQUIRED.
2. COMPLETELY FILL THE ROCK CHAMBERS AT EACH END OF THE FILTER.
3. SECURE THE OPEN ENDS OF THE ROCK CHAMBERS WITH TIE WIRES. FOR LARGER OPENINGS, SIMPLY PLACE FILTERS END TO END.

MAINTENANCE

ALL TEMPORARY EROSION AND SEDIMENT CONTROL PRACTICES SHOULD BE INSPECTED DAILY. REMOVE SEDIMENT AND DISPOSE IN A PROPER MANNER. INSPECT FILTER FOR CUTS, ABRASIONS AND PROPER INSTALLATION, REPLACE OR REPOSITION AS NECESSARY. DISCONTINUE USE IF CURB INLET FILTRATION CREATES TRAFFIC HAZARD.

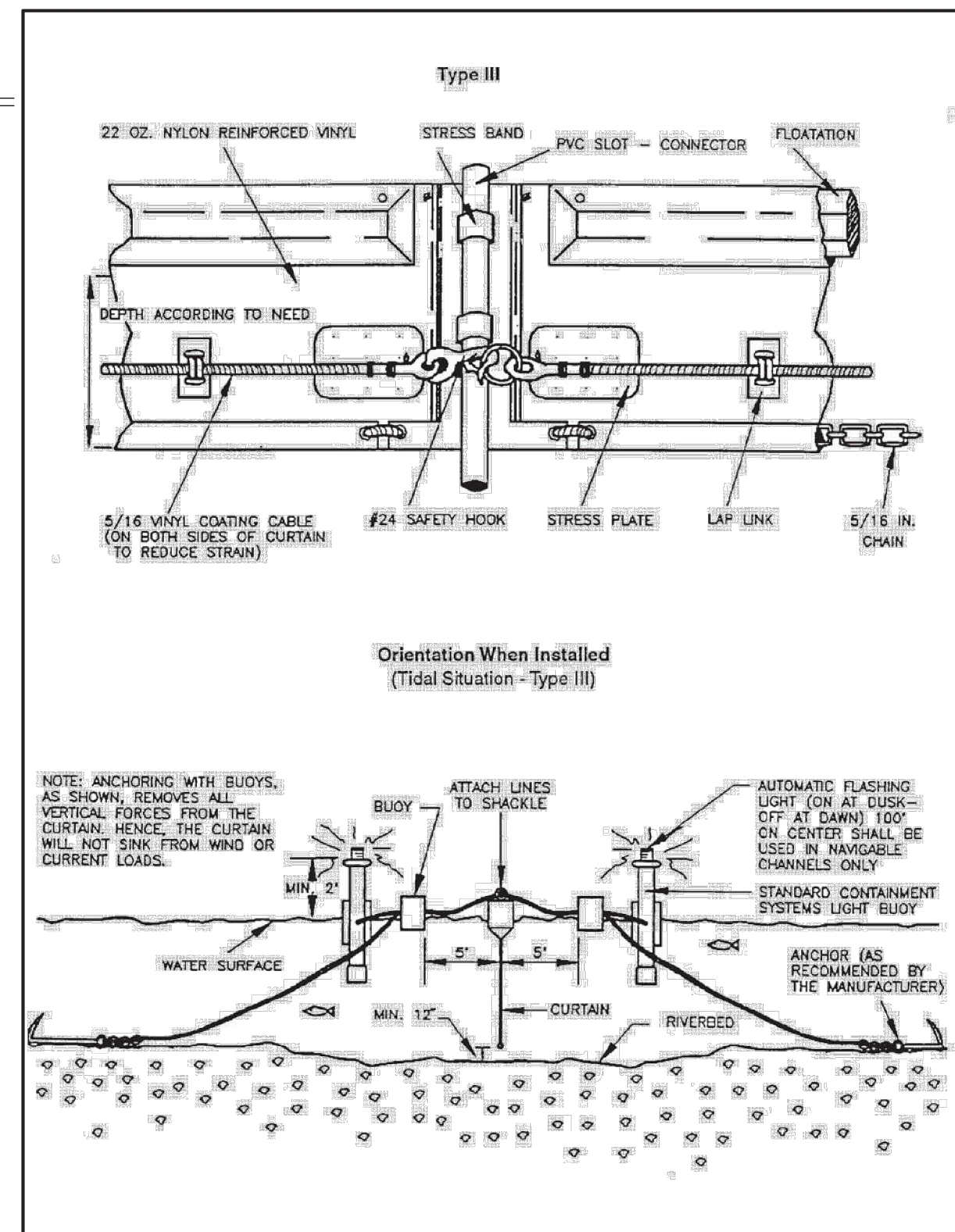
CURB INLET PROTECTION

N.T.S.



INLET PROTECTION

N.T.S.



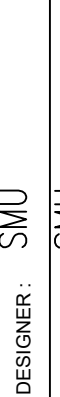
NOTE: EROSION AND SEDIMENTATION CONTROL MEASURES, INCLUDING FLOATING TURBIDITY BARRIER, SPECIFICATIONS, REQUIREMENTS, AND INSTALLATION SHALL BE PER THE FDEP FLORIDA STORMWATER EROSION AND SEDIMENTATION CONTROL INSPECTORS MANUAL, LATEST EDITION.

TYPE III FLOATING TURBIDITY BARRIER

N.T.S.

EROSION CONTROL DETAILS

SULSAMER December 27, 2024 p:\Projects\21-5436 bdc camp helen state park\Drawings\Civil\10 Details\C901 Construction Details.dwg

SHEET NO.	CAMP HELEN STATE PARK	PROFESSIONAL REGISTRATION		George & Associates Consulting Engineers, Inc. CORP. - PROFESSIONAL ENGINEERING - SURVEYING - LAND USE 1957 Commonwealth Lane, Suite 200, Tallahassee, FL 32303 PHONE 850/5210344 - FAX 850/5210345	Department of Environmental Protection Division of Recreation and Parks Bureau of Design and Construction 3900 Commonwealth Boulevard, Tallahassee, FL 32399 (850) 245-2157
	SHEET TITLE EROSION CONTROL DETAILS	DESIGNER: SMU DRAWN BY: SMU REVIEWED BY: JHP			
	PROJECT TITLE PARK IMPROVEMENT				

**PRELIMINARY
NOT FOR
CONSTRUCTION**

C904

Work Zone Speed (mph)	Maximum Spacing (feet)			
	Cones or Temporary Tubular Markers		Type I Barricades, Type II Barricades, Vertical Panels, or Drums	
	Taper	Tangent	Taper	Tangent
≤ 45	25	50	25	50
≥ 50	25	50	50	100

Work Zone Speed (mph)							Minimum Length (Feet)								
≤ 40							$L = (WS^2)/60$								
≥ 45							$L = WS$								
Example "L" Values															
S (mph)	W (Width of Offset in Feet)														
	4			5			8			10			12		
	L	L/2	L/3	L	L/2	L/3	L	L/2	L/3	L	L/2	L/3	L	L/2	L/3
25	42	21	14	52	26	17	83	42	28	104	52	35	125	63	42
30	60	30	20	75	38	25	120	60	40	150	75	50	180	90	60
35	82	41	27	102	51	34	163	82	54	204	102	68	245	123	82
40	107	53	36	133	67	44	213	107	71	267	133	89	320	160	107
45	180	90	60	225	113	75	360	180	120	450	225	150	540	270	180
50	200	100	67	250	125	83	400	200	133	500	250	167	600	300	200
55	220	110	73	275	138	92	440	220	147	550	275	183	660	330	220
60	240	120	80	300	150	100	480	240	160	600	300	200	720	360	240
65	260	130	87	325	163	108	520	260	173	650	325	217	780	390	260
70	280	140	93	350	175	117	560	280	187	700	350	233	840	420	280
NOTE: Unless otherwise shown: Use L for merging tapers Use L/2 for shifting tapers Use L/3 for shoulder tapers															

Road Type	Minimum Spacing (feet)
Arterials and Collectors with Work Zone Speed ≤ 40 mph	200
Arterials and Collectors with Work Zone Speed ≥ 45 mph	500
Limited Access Roadways (See Note)	1,500
NOTE: For Limited access roadways with work zone speed ≤ 55 mph, the minimum spacing may be reduced in accordance with the MUTCD and as approved by the Engineer.	

Work Zone Speed (mph)	Minimum Length (feet)
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645
70	730

NOTE:
When Buffer Length "B" cannot be attained due to geometric constraints, use the greatest length possible, but not less than 155 feet.

TABLE 5 CLEAR ZONE WIDTHS FOR WORK ZONES		
Work Zone Speed (mph)	Travel Lanes & Multilane Ramps (feet)	Auxiliary Lanes & Single Lane Ramps (feet)
60-70	30	18
55	24	14
45-50	18	10
30-40	14	10
ALL SPEEDS CURB & GUTTER	4' BEHIND FACE OF CURB	4' BEHIND FACE OF CURB
NOTE: For temporary conditions where existing curb has been removed but not reconstructed, curb and gutter values may be used.		

TABLE 6 MINIMUM RADII FOR NORMAL CROWN	
Work Zone Posted Speed (mph)	Minimum Radius (feet)
70	4090
65	3130
60	2400
55	1840
50	1390
45	1080
40	820
35	610
30	430
Superelevate When Smaller Radii is Used	

TABLE 7 POST AND FOUNDATION TABLE FOR WORK ZONE SIGNS			
SIGN SHAPE	SIGN SIZE (inches)	NUMBER OF STEEL U CHANNEL POSTS	Notes For Table:
Octagon	30x30	1	
Triangle	36x36x36	1	1. Use 3 lb/ft posts for Clear Height up to 10' and 4 lb/ft posts for Clear Height up to 12'.
	48x48x48	1	
	60x60x60	2	2. Minimum foundation depth is 4.0' for 3 lb/ft posts and 4.5' for 4 lb/ft posts.
Rectangle (W x H)	24x18	1	
	24x30	1	3. For both 3 lb/ft and 4 lb/ft base or sign posts installed in rock, a minimum cumulative depth of 2' of rock layer is required.
	30x24	1	
	36x18	1	4. The soil plate as shown on the APL vendor drawing is not required for base posts or sign posts installed in existing rock (as defined in Note 3), asphalt roadway, shoulder pavement or soil under sidewalk.
	36x24	1	
	48x18	1	5. For diamond warning signs with supplement plaque (up to 5 ft ² in area), use 4 lb/ft posts for up to 10 ft Clear Height (measure to the bottom of diamond warning sign).
	48x24	1	
	36x48	2	
	48x30	2	
	48x36	2	
	54x36	2	
	48x60	3	
Square	72x48	3	
	30x30	1	
	36x36	2	
	48x48	2	
Diamond	48x48	2	
Circle	36Ø	2	

TABLE 8 DROP-OFF PROTECTION REQUIREMENTS			
Condition	E (ft)	D (in.)	Device Required
1	0-12	> 3	Temporary Barrier
2	> 12-CZ	> 3 to ≤ 5	Channelizing Device
3	0-CZ	> 5	Temporary Barrier
4	Removal of Bridge or Retaining Wall Barrier		Temporary Barrier
5	Removal of portions of Bridge Deck		Temporary Barrier

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SHEET	TABLE OF CONTENTS
1	General Notes, TTC Tables
2	Definitions Temporary Traffic Control Devices Overhead Work Railroads Sight Distance Above Ground Hazard
3	Clear Zone Widths For Work Zones Superelevation Length Of Lane Closures Overweight/Oversize Vehicles Lane Widths High-Visibility Safety Apparel Speed Reduction Signing
4	Flagger Control Survey Work Zones Signs
5	Work Zone Sign Supports
6	Commonly Used Warning and Regulatory Signs In Work Zones
7	Manholes/Crosswalks/Joints Truck Mounted Attenuators Signals Channelizing Devices Channelizing Devices Consistency Advanced Warning Arrow Boards
8	Drop-Offs In Work Zones
9	Business Entrance Temporary Asphalt Separator
10	Channelizing Devices Notes Temporary Barrier Notes
11	Pavement Markings

GENERAL NOTES:

1. This Index contains information specific to the Federal and State guidelines and standards for the preparation of traffic control plans and for the execution of traffic control in work zones, for construction and maintenance operations and utility work on highways, roads and streets on the State Highway System. Certain requirements in this Index are based on the high volume nature of State Highways. For highways, roads and streets off the State Highway System, the local agency (City/County) having jurisdiction may adopt requirements based on the minimum requirements provided in the MUTCD.
2. Use this Index in accordance with the Plans and Indexes 102-601 through 102-680. Indexes 102-601 through 102-680 are Department-specific typical applications of commonly encountered situations. Adjust device location or number thereof as recommended by the Worksite Traffic Supervisor and approved by the Engineer. Devices include, but are not limited to, flaggers, portable temporary signals, signs, pavement markings, and channelizing devices. Comply with MUTCD or applicable Department criteria for any changes and document the reason for the change.
3. Except for emergencies, any road closure on State Highway System must comply with Section 335.15, F.S.

TABLE 1 CHANNELIZING DEVICE SPACING				
Work Zone Speed (mph)	Max. Spacing (feet)			
	Cones or Temporary Tubular Markers		Type I Barricades, Type II Barricades, Vertical Panels, or Drums	
	Taper	Tangent	Taper	Tangent
≤ 45	25	50	25	50
≥ 50	25	50	50	100

TABLE 3 WORK ZONE SIGN SPACING "X"	
Road Type	Min. Spacing (feet)
Arterials and Collectors with Work Zone Speed ≤ 40 mph	200
Arterials and Collectors with Work Zone Speed ≥ 45 mph	500
Limited Access Roadways *	1,500
* For Limited access roadways with work zone speed ≤ 55 mph, the minimum spacing may be reduced in accordance with the MUTCD and as approved by the Engineer.	

SYMBOLS:	
	Work Area
	Channelizing Device
	Work Zone Sign
	Type III Barricade
	Lane Identification and Direction of Traffic

TABLE 2 TAPER LENGTH "L"	
Work Zone Speed (mph)	Min. Length (feet)
≤ 40	$L = \frac{WS^2}{60}$
≥ 45	$L = WS$
Where: W = width of offset in feet S = speed in mph	

TABLE 4 BUFFER LENGTH "B"	
Work Zone Speed (mph)	Min. Length (feet)
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645
70	730
Note: When Buffer Length "B" cannot be attained due to geometric constraints, use the greatest length possible, but not less than 155 feet.	

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DEFINITIONS:

Regulatory Speed (In Work Zones)

The maximum permitted travel speed posted for the work zone is indicated by the regulatory speed limit signs. The work zone speed must be shown or noted in the plans. This speed should be used as the minimum design speed to determine runout lengths, departure rates, flare rates, lengths of need, clear zone widths, taper lengths, crash cushion requirements, marker spacings, superelevation and other similar features.

Advisory Speed

The maximum recommended travel speed through a curve or a hazardous area.

Travel Way

The portion of the roadway for the movement of vehicles. For traffic control through work zones, travel way may include the temporary use of shoulders and any other permanent or temporary surface intended for use as a lane for the movement of vehicular traffic.

- a. Travel Lane: The designated widths of roadway pavement marked to carry through traffic and to separate it from opposing traffic or traffic occupying other traffic lanes.
- b. Auxiliary Lane: The designated widths of roadway pavement marked to separate speed change, turning, passing and climbing maneuvers from through traffic.

Detour, Lane Shift, and Diversion

A detour is the redirection of traffic onto another roadway to bypass the temporary traffic control zone. A lane shift is the redirection of traffic onto a different section of the permanent pavement. A diversion is the redirection of traffic onto a temporary roadway, usually adjacent to the permanent roadway and within the limits of the right of way.

Aboveground Hazard

An aboveground hazard is any object, material or equipment other than traffic control devices that encroaches upon the travel way or that is located within the clear zone which does not meet the Department's safety criteria, i.e., anything that is greater than 4" in height and is firm and unyielding or doesn't meet breakaway requirements.

TEMPORARY TRAFFIC CONTROL DEVICES:

1. All temporary traffic control devices shall be ON the Department's Approved Products List (APL). Ensure the appropriate APL number is permanently marked on the device in a readily visible location.
2. All temporary traffic control devices shall be removed as soon as practical when they are no longer needed. When work is suspended for short periods of time, temporary traffic control devices that are no longer appropriate shall be removed or covered. Do not store temporary traffic control devices on the shoulder, sidewalk, or other roadway facility not affected by the work when work is suspended.
3. Arrow Boards, Portable Changeable Message Signs, Radar Speed Display Trailer, Portable Regulatory Signs, and any other trailer mounted device shall be delineated with a channelizing device placed at each corner when in use and shall be moved outside the travel way and clear zone or be shielded by a barrier or crash cushion when not in use.

OVERHEAD WORK:

Work is only allowed over a traffic lane when one of the following options is used:

OPTION 1 (OVERHEAD WORK USING A MODIFIED LANE CLOSURE)

Overhead work using a modified lane closure is allowed if all of the following conditions are met:

- a. Work operation is located in a signalized intersection and limited to signals, signs, lighting and utilities.
- b. Work operations are 60 minutes or less.
- c. Speed limit is 45 mph or less.
- d. Aerial lift equipment in the work area has high-intensity, rotating, flashing, oscillating, or strobe lights operating.
- e. Aerial lift equipment is placed directly below the work area to close the lane.
- f. Traffic control devices are placed in advance of the vehicle/equipment closing the lane using a minimum 100 foot taper.
- g. Volume or complexity of the roadway may dictate additional devices, signs, flagmen and/or a traffic control officer.

OPTION 2 (OVERHEAD WORK ABOVE AN OPEN TRAFFIC LANE)

Overhead work above a open traffic lane is allowed if all of the following conditions are met:

- a. Work operation is located on a utility pole, light pole, signal pole, or their appurtenances.
- b. Work operations are 60 minutes or less.
- c. Speed limit is 45 mph or less.
- d. No encroachment by any part of the work activities and equipment within an area bounded by 2 feet outside the edge of travel way and 18 feet high.
- e. Aerial lift equipment in the work area has high-intensity, rotating, flashing, oscillating, or strobe lights operating.
- f. Volume or complexity of the roadway may dictate additional devices, signs, flagmen and/or a traffic control officer.
- g. Adequate precautions are taken to prevent parts, tools, equipment and other objects from falling into open lanes of traffic.
- h. Other Governmental Agencies, Rail facilities, or Codes may require a greater clearance. The greater clearance required prevails as the rule.

OPTION 3 (OVERHEAD WORK ADJACENT TO AN OPEN TRAFFIC LANE)

Overhead work adjacent to an open traffic lane is allowed if all of the following conditions are met:

- a. Work operation is located on a utility pole, light pole, signal pole, or their appurtenances.
- b. Work operations are 1 day or less.
- c. Speed limit is 45 mph or less.
- d. No encroachment by any part of the work activities and equipment within 2 foot from the edge of travel way up to 18' height. Above 18' in height, no encroachment by any part of the work activities and equipment over the open traffic lane (except as allowed in Option 2 for work operations of 60 minutes or less).
- e. Aerial lift equipment in the work area has high-intensity, rotating, flashing, oscillating, or strobe lights operating.
- f. Volume or complexity of the roadway may dictate additional devices, signs, flagmen and/or a traffic control officer.
- g. Adequate precautions are taken to prevent parts, tools, equipment and other objects from falling into open lanes of traffic.
- h. Other Governmental Agencies, Rail facilities, or Codes may require a greater clearance. The greater clearance required prevails as the rule.

OVERHEAD WORK: (Cont.)

OPTION 4 (OVERHEAD WORK MAINTAINING TRAFFIC WITH NO ENCROACHMENT BELOW THE OVERHEAD WORK AREA)

Traffic shall be detoured, shifted, diverted or paced as to not encroach in the area directly below the overhead work operations in accordance with the appropriate index drawing or detailed in the plans. This option applies to, but not limited to, the following construction activities:

- a. Beam, girder, segment, and bent/pier cap placement.
- b. Form and falsework placement and removal.
- c. Concrete placement.
- d. Railing construction located at edge of deck.
- e. Structure demolition.

OPTION 5 (CONDUCTOR/CABLE PULLING ABOVE AN OPEN TRAFFIC LANE)

Overhead cable and/or de-energized conductor installations initial pull to proper tension shall be done in accordance with the appropriate Index or temporary traffic control plan.

Continuous pulling operations of secured cable and/or conductors are allowed over open lane(s) of traffic with no encroachment by any part of the work activities, materials or equipment within the minimal vertical clearance above the travel way. The utility shall take precautions to ensure that pull ropes and conductors/cables at no time fall below the minimum vertical clearance.

On Limited Access facilities, a site specific temporary traffic control plan is required. The temporary traffic control plan shall include:

- a. The temporary traffic control set up for the initial pulling of the pull rope across the roadway.
- b. During pulling operations, advance warning consisting of no less than a Changeable Message Sign upstream of the work area with alternating messages, "Overhead Work Ahead" and "Be Prepared to Stop" followed by a traffic control officer and police vehicle with blue lights flashing during the pulling operation.

RAILROADS:

Railroad crossings affected by a construction project should be evaluated for traffic controls to reduce queuing on the tracks. The evaluation should include as a minimum: traffic volumes, distance from the tracks to the intersections, lane closure or taper locations, signal timing, etc.

SIGHT DISTANCE:

1. Tapers: Transition tapers should be obvious to drivers. If restricted sight distance is a problem (e.g., a sharp vertical or horizontal curve), the taper should begin well in advance of the view obstruction. The beginning of tapers should not be hidden behind curves.
2. Intersections: Traffic control devices at intersections must provide sight distances for the road user to perceive potential conflicts and to traverse the intersection safely. Construction equipment and materials shall not restrict intersection sight distance.

ABOVEGROUND HAZARD:

1. Aboveground hazards (see definitions) are to be considered work areas during working hours and treated with appropriate work zone traffic control procedures. During nonworking hours, all objects, materials and equipment that constitute an aboveground hazard must be stored/placed outside the travel way and clear zone or be shielded by a barrier or crash cushion.
2. For aboveground hazards within a work zone the clear zone required should be based on the regulatory speed posted during construction.

LAST REVISION 11/01/20	REVISION	DESCRIPTION:	 FY 2024-25 STANDARD PLANS	GENERAL INFORMATION FOR TRAFFIC CONTROL THROUGH WORK ZONES	INDEX 102-600	SHEET 2 of 11
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Approved
2024-A-391-00044
Lisa Ward
1/30/2025

CLEAR ZONE WIDTHS FOR WORK ZONES:

The term 'clear zone' describes the unobstructed relatively flat area, impacted by construction, extending outward from the edge of the traffic lane. The table below gives clear zone widths in work zones for medians and roadside conditions other than for roadside canals; where roadside canals are present, clear zone widths are to conform with the distances to canals as described in the FDOT Design Manual 215.2.

TABLE 5 CLEAR ZONE WIDTHS FOR WORK ZONES		
WORK ZONE SPEED (MPH)	TRAVEL LANES & MULTILANE RAMPS (feet)	AUXILIARY LANES & SINGLE LANE RAMPS (feet)
60-70	30	18
55	24	14
45-50	18	10
30-40	14	10
ALL SPEEDS CURB & GUTTER	4' BEHIND FACE OF CURB	4' BEHIND FACE OF CURB
NOTE: For temporary conditions where existing curb has been removed but not reconstructed, curb and gutter values may be used.		

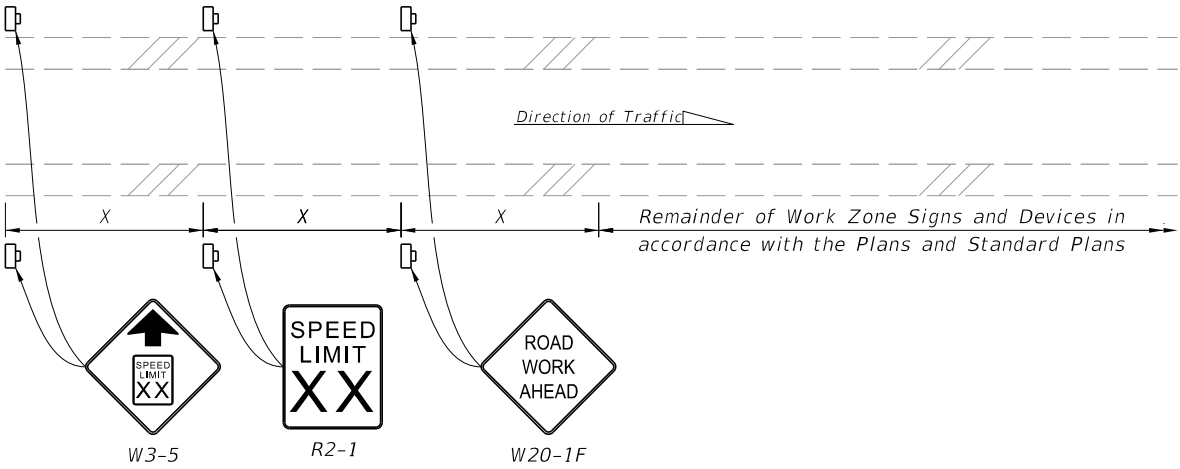
SUPERELEVATION:

Horizontal curves constructed in conjunction with work zone traffic control should have the required superelevation applied to the design radii. Under conditions where normal crown controls curvature, the minimum radii that can be applied are listed in the table below.

TABLE 6 MINIMUM RADII FOR NORMAL CROWN	
WORK ZONE POSTED SPEED	MINIMUM RADIUS
MPH	feet
70	4090
65	3130
60	2400
55	1840
50	1390
45	1080
40	820
35	610
30	430
Superelevate When Smaller Radii is Used	

LENGTH OF LANE CLOSURES:

For interstates and state highways with a posted speed of 55MPH or greater, lane closures must not exceed 3 miles (includes taper, buffer, and work zone) in any given direction and must not close two consecutive interchanges.



NOTES:

1. X = Work Zone Sign Spacing
2. When called for in the Plans, use this detail in accordance with the Plans and Standard Plans. Place the speed reduction signs (W3-5 and R2-1) in advance of the "Road Work Ahead" sign (W20-1F) as shown.
3. Do not use this detail in conjunction with the Motorist Awareness System.
4. For speed reductions greater than 10 MPH, reduce the speed in 10 MPH increments of 'X' distance. Do not reduce the speed below the minimum statutory speed for the class of facility.
5. Place additional "Speed Limit" signs (R2-1) at intervals of no more than one mile for rural conditions and 1,000 feet for urban conditions.
6. For undivided roadways, omit the signs shown in the median.
7. Remove temporary regulatory speed signs as soon as the conditions requiring the reduced speed no longer exist. Once the work zone regulatory speeds are removed, the regulatory speed existing prior to construction will automatically go back into effect.

SPEED REDUCTION SIGNING

OVERWEIGHT/OVERSIZE VEHICLES:

Restrictions to Lane Widths, Heights or Load Capacity can greatly impact the movement of over dimensioned loads. The Contractor shall notify the Engineer who in turn shall notify the State Permits Office, phone no. (850) 410-5777, at least seven calendar days in advance of implementing a maintenance of traffic plan which will impact the flow of overweight/oversized vehicles. Information provided shall include location, type of restriction (height, width or weight) and restriction time frames. When the roadway is restored to normal service the State Permits Office shall be notified immediately.

LANE WIDTHS:

Lane widths of through roadways should be maintained through work zone travel ways wherever practical. Provide minimum widths for work zone travel lanes as follows: 11' for Interstate with at least one 12' lane provided in each direction, unless formally excepted by the Federal Highway Administration; 11' for all other limited access roadways; and 10' for all other facilities.

HIGH-VISIBILITY SAFETY APPAREL:

All high-visibility safety apparel shall meet the requirements of the International Safety Equipment Association (ISEA) and the American National Standards Institute (ANSI) for "High-Visibility Safety Apparel", and labeled as ANSI/ISEA 107-2004 or newer. The apparel background (outer) material color shall be either fluorescent orange-red or fluorescent yellow-green as defined by the standard. The retroreflective material shall be orange, yellow, white, silver, yellow-green, or a fluorescent version of these colors, and shall be visible at a minimum distance of 1,000 feet. Class 3 apparel may be substituted for Class 2 apparel. Replace apparel that is not visible at 1,000 feet.

WORKERS: All workers within the right-of-way shall wear ANSI/ISEA Class 2 apparel. Workers operating machinery or equipment in which loose clothing could become entangled during operation shall wear fitted high-visibility safety apparel. Workers inside the bucket of a bucket truck are not required to wear high-visibility safety apparel.

UTILITIES: When other industry apparel safety standards require utility workers to wear apparel that is inconsistent with FDOT requirements such as NFPA, OSHA, ANSI, etc., the other standards for apparel may prevail.

FLAGGERS: For daytime activities, Flaggers shall wear ANSI/ISEA Class 2 apparel. For nighttime activities, Flaggers shall wear ANSI/ISEA Class 3 apparel.

LAST REVISION	DESCRIPTION:
11/01/20	



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FLAGGER CONTROL:

Regulatory Speed (In Work Zones)

Where flaggers are used, a FLAGGER symbol or legend sign must replace the WORKERS symbol or legend sign.

The flagger must be clearly visible to approaching traffic for a distance sufficient to permit proper response by the motorist to the flagging instructions, and to permit traffic to reduce speed or to stop as required before entering the work site. Flaggers shall be positioned to maintain maximum color contrast between the Flagger's high-visibility safety apparel and equipment and the work area background.

Hand-Signaling Devices

STOP/SLOW paddles are the primary hand-signaling device. The STOP/SLOW paddle shall have an octagonal shape on a rigid handle. If the STOP/SLOW paddle is placed on a rigid staff, the minimum length of the staff, measured from the bottom of the paddle to the end of the staff that rests on the ground, must not be less than 6 ft. STOP/SLOW paddles shall be at least 24 inches wide with letters at least 6 inches high and should be fabricated from light semirigid material. The background of the STOP face shall be red with white letters and border. The background of the SLOW face shall be orange with black letters and border. When used at night-time, the STOP/SLOW paddle shall be retroreflectorized.

Flag use is limited to immediate emergencies, intersections, and when working on the centerline or shared left turn lanes where two (2) flaggers are required and there is opposing traffic in the adjacent lanes. Flags, when used, shall be a minimum of 24 inches square, made of a good grade of red material, and securely fastened to a staff that is approximately 36 inches in length. When used at nighttime, flags shall be retroreflectorized red.

Flashlight, lantern or other lighted signal that will display a red warning light shall be used at night.

Flagger Stations

Flagger stations shall be located far enough in advance of the work area so that approaching road users will have sufficient distance to stop before entering the work area. When used at nighttime, the flagger station shall be illuminated.

SURVEY WORK ZONES:

The SURVEY CREW AHEAD symbol or legend sign shall be the principal Advance Warning Sign used for Traffic Control Through Survey Work Zones and may replace the ROAD WORK AHEAD sign when lane closures occur, at the discretion of the Party Chief.

When Traffic Control Through Work Zones is being used for survey purposes only, the END ROAD WORK sign as called for on certain 102 Series of Indexes should be omitted.

Survey Between Active Traffic Lanes or Shared Left Turn Lanes

The following provisions apply to Main Roadway Traffic Control Work Zones. These provisions must be adjusted by the Party Chief to fit roadway and traffic conditions when the Survey Work Zone includes intersections.

(A) A STAY IN YOUR LANE (MOT-1-06) sign shall be added to the Advance Warning Sign sequence as the second most immediate sign from the work area.

(B) Elevation Surveys-Cones may be used at the discretion of the Party Chief to protect prism holder and flagger(s). Cones, if used, may be placed at up to 50' intervals along the break line throughout the work zone.

SURVEY WORK ZONES: (Cont.)

(C) Horizontal Control-With traffic flow in the same direction, cones shall be used to protect the backsight tripod and/or instrument. Cones shall be placed at the equipment, and up to 50' intervals for at least 200' towards the flow of traffic.

(D) Horizontal Control-With traffic flow in opposite directions, cones shall be used to protect the backsight tripod and/or instrument. Cones shall be placed at the equipment, and up to 50' intervals for at least 200' in both directions towards the flow of traffic.

SIGNS:

SIGN MATERIALS

Mesh signs and non-retroreflectice vinyl signs may only be used for daylight operations. Non-retroreflectice vinyl signs must meet the requirements of Specifications Section 994.

Retroreflective vinyl signs meeting the requirements of Specification Section 994 may be used for daylight or night operations not to exceed 1 day except as noted in the Indexes.

Rigid or Lightweight sign panels may be used in accordance with the vendor APL drawing for the sign stand to which they are attached.

INTERSECTING ROAD SIGNING

Signing for the control of traffic entering and leaving work zones by way of intersecting crossroads shall be adequate to make drivers aware of work zone conditions. When Work operations exceed 60 minutes, place the ROAD WORK AHEAD sign on the side street entering the work zone.

ADJOINING AND/OR OVERLAPPING WORK ZONE SIGNING

Adjoining work zones may not have sufficient spacing for standard placement of signs and other traffic control devices in their advance warning areas or in some cases other areas within their traffic control zones. Where such restraints or conflicts occur or are likely to occur, one of the following methods will be employed to avoid conflicts and prevent conditions that could lead to misunderstanding on the part of the traveling public as to the intended travel way by the traffic control procedure applied:

(A) For scheduled projects the engineer in responsible charge of project design will resolve anticipated work zone conflicts during the development of the project traffic control plan. This may entail revision of plans on preceding projects and coordination of plans on concurrent projects.

(B) Unanticipated conflicts arising between adjoining in progress highway construction projects will be resolved by the Resident Engineer for projects under his residency, and, by the District Construction Engineer for in progress projects under adjoining residencies.

(C) The District Maintenance Engineer will resolve anticipated and occurring conflicts within scheduled maintenance operations.

(D) The Unit Maintenance Engineer will resolve conflicts that occur within routine maintenance works; between routine maintenance work, unscheduled work and/or permitted work; and, between unit controlled maintenance works and highway construction projects.

SIGNS: (Cont.)

SIGN COVERING AND INTERMITTENT WORK STOPPAGE SIGNING

Existing or temporary traffic control signs that are no longer applicable or are inconsistent with intended travel paths shall be removed or fully covered.

Sign blanks or other available coverings must completely cover the existing sign. Rigid sign coverings shall be the same size as the sign it is covering, and bolted in a manner to prevent movement.

Sign covers are incidental to work operations and are not paid for separately.

SIGNING FOR DETOURS, LANE SHIFTS AND DIVERSIONS

Detours should be signed clearly over their entire length so that motorists can easily determine how to return to the original roadway. The reverse curve (W1-4) warning sign should be used for the advanced warning for a lane shift. A diversion should be signed as a lane shift.

EXTENDED DISTANCE ADVANCE WARNING SIGN

Advance Warning Signs shall be used at extended distance of one-half mile or more when limited sight distance or the nature of the obstruction may require a motorist to bring their vehicle to a stop. Extended distance Advanced Warning Signs may be required on any type roadway, but particularly be considered on multilane divided highways where vehicle speed is generally in the higher range (45 MPH or more).

UTILITY WORK AHEAD SIGN

The UTILITY WORK AHEAD (W21-7) sign may be used as an alternate to the ROAD WORK AHEAD or the ROAD WORK XX FT (W20-1) sign for utility operations on or adjacent to a highway.

LENGTH OF ROAD WORK SIGN

The length of road work sign (G20-1) bearing the legend ROAD WORK NEXT _____ MILES is required for all projects of more than 2 miles in length. The number of miles entered should be rounded up to the nearest mile. The sign shall be located at begin construction points.

GROOVED PAVEMENT AHEAD SIGN

The GROOVED PAVEMENT AHEAD sign is required 500 feet in advance of a milled or grooved surface open to traffic. The W8-15P placard shall be used in conjunction with the GROOVED PAVEMENT AHEAD sign.

END ROAD WORK SIGN

The END ROAD WORK sign (G20-2) should be installed on all projects, but may be omitted where the work operation is less than 1 day. The sign should be placed approximately 500 feet beyond the end of a construction or maintenance project unless other distance is called for in the plans. When other Construction or Maintenance Operations occur within 1 mile this sign should be omitted and signing coordinated in accordance with Index 102-600, ADJOINING AND/OR OVERLAPPING WORK ZONE SIGNING.

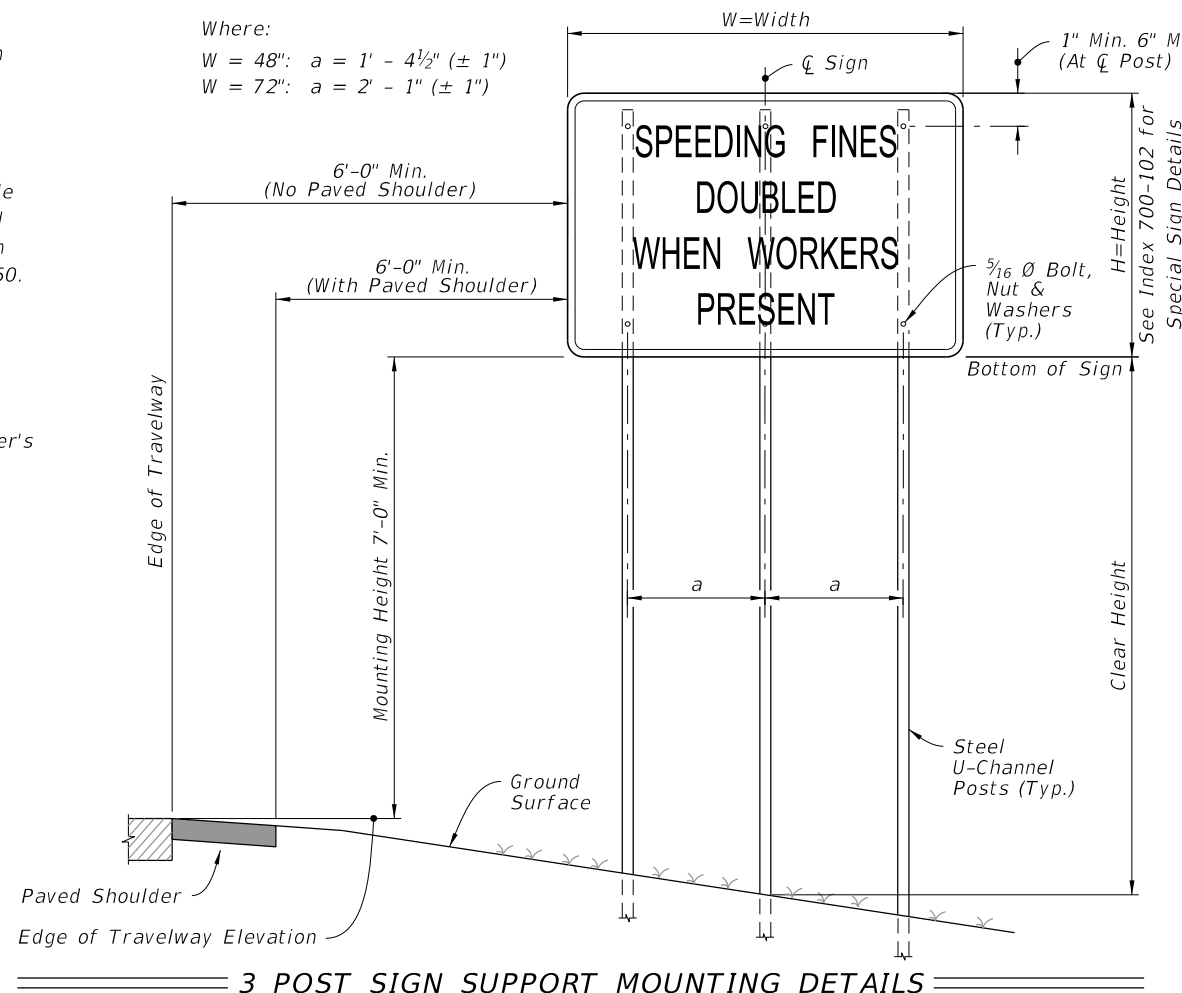
LAST REVISION 11/01/20	REVISION	DESCRIPTION:	 FY 2024-25 STANDARD PLANS	GENERAL INFORMATION FOR TRAFFIC CONTROL THROUGH WORK ZONES	INDEX 102-600	SHEET 4 of 11
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Approved
2024-A-391-00044
Lisa Ward
1/30/2025

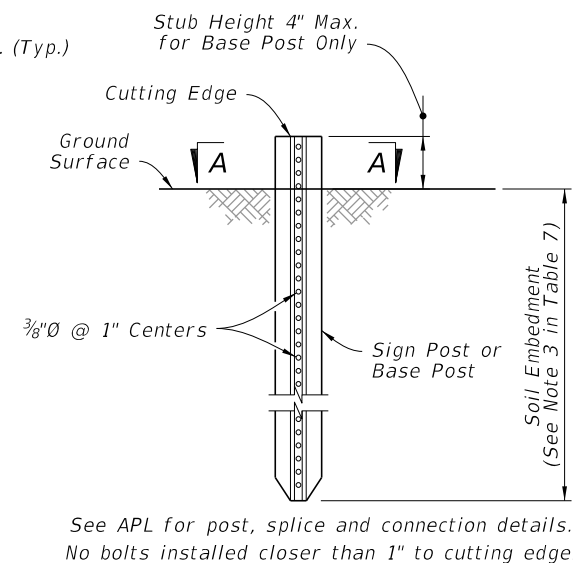
1. All signs shall be post mounted when work operations exceed one day except for:
 - a. Road closure signs mounted in accordance with the vendor drawing for the Type III Barricade shown on the APL.
 - b. Pedestrian and bicycle advanced warning or pedestrian regulatory signs mounted on sign supports in accordance with the vendor drawing shown on the APL.
 - c. Median barrier mounted signs per Index 700-013.
 - d. Bridge mounted signs per Index 700-012.

-
- The image contains two technical drawings of sign support mounting details, labeled 'RURAL' and 'URBAN'.
- RURAL Detail:** Shows a diamond-shaped sign with the text 'ROAD WORK 500 FT'. The sign is mounted on two steel U-channel posts. Key dimensions and labels include:
 - Sign:** 1" Min. 6" Max. (Typ.) Edge of Sign to ϕ Bolt.
 - Mounting:** $\frac{5}{16}$ ϕ Bolt, Nuts & Washers (Typ.).
 - Clearance:** Clear Height (from bottom of sign to top of sign).
 - Ground Surface:** Indicated by a dashed line.
 - Shoulder:** 6'-0" Min. (No Paved Shoulder) and 6'-0" Min. (With Paved Shoulder).
 - Edge of Travelway:** Indicated by a solid line.
 - Mounting Height:** 7'-0" Min. (from ground surface to bottom of sign).
 - Sign Width:** 36" (indicated by a dimension line).
- URBAN Detail:** Shows a diamond-shaped sign with the text 'ROAD WORK 500 FT'. The sign is mounted on two steel U-channel posts. Key dimensions and labels include:
 - Sign:** 1" Min. 6" Max. (Typ.) Edge of Sign to ϕ Bolt.
 - Mounting:** $\frac{5}{16}$ ϕ Bolt, Nuts & Washers (Typ.).
 - Clearance:** Clear Height (from bottom of sign to top of sign).
 - Ground Surface:** Indicated by a dashed line.
 - Shoulder:** 2'-0" Min. (from face of curb to edge of sign).
 - Edge of Travelway:** Indicated by a solid line.
 - Mounting Height:** 7'-0" Min. (from ground surface to bottom of sign).
 - Sign Width:** 36" (indicated by a dimension line).
 - Urban Features:** Curb & Gutter, Walkway.
- General Notes:**
 - 1'-6" ($\pm$ 3") for 36" Wide Signs
 - 2'-6" ($\pm$ 6") Typ. for Others
- 2 POST SIGN SUPPORT MOUNTING DETAILS**
(SINGLE POST SIMILAR)

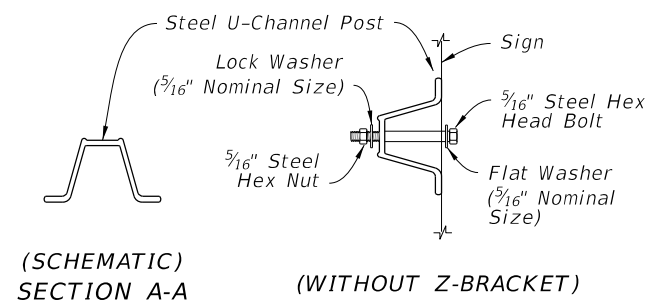
2 POST SIGN SUPPORT MOUNTING DETAILS (SINGLE POST SIMILAR)



3 POST SIGN SUPPORT MOUNTING DETAILS



= FOUNDATION DETAIL



(SCHEMATIC)
SECTION A-A (WITHOUT Z-BRACKET)

== SIGN ATTACHMENT DETAIL ==

<i>SIGN SHAPE</i>	<i>SIGN SIZE (inches)</i>	<i>NUMBER OF STEEL U CHANNEL POSTS</i>
<i>Octagon</i>	30x30	1
<i>Triangle</i>	36x36x36	1
	48x48x48	1
	60x60x60	2
<i>Rectangle (W x H)</i>	24x18	1
	24x30	1
	30x24	1
	36x18	1
	36x24	1
	48x18	1
	48x24	1
	36x48	2
	48x30	2
	48x36	2
	54x36	2
	48x60	3
	72x48	3
<i>Square</i>	30x30	1
	36x36	2
	48x48	2
<i>Diamond</i>	48x48	2
<i>Circle</i>	36Ø	2

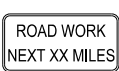
1. Use 3 lb/ft posts for Clear Height up to 10' and 4 lb/ft posts for Clear Height up to 12'.
2. Minimum foundation depth is 4.0' for 3 lb/ft posts and 4.5' for 4 lb/ft posts.
3. For both 3 lb/ft and 4 lb/ft base or sign posts installed in rock, a minimum cumulative depth of 2' of rock layer is required.
4. The soil plate as shown on the APL vendor drawing is not required for base posts or sign posts installed in existing rock (as defined in Note 3), asphalt roadway, shoulder pavement or soil under sidewalk.
5. For diamond warning signs with supplement plaque (up to 5 ft² in area), use 4 lb/ft posts for up to 10 ft Clear Height (measure to the bottom of diamond warning sign).



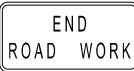
E5-2
B/O



E5-2a
B/O



G20-1
B/O



G20-2
B/O



G20-4
B/O



M4-8
B/O



M4-8A
B/O



M4-9L
B/O



M4-9R
B/O



M4-10L
O/B



M4-10R
O/B



OM-3R
B/Y



R1-1
W/R



R1-2
RW/R



R2-1
B/W



R4-1
B/W



R4-2
B/W



R4-5
B/W



R4-7
B/W



R4-8
B/W



R4-7AL
B/W



R4-7AR
B/W



R4-7BL
B/W



R4-7BR
B/W



R4-11
B/W



R5-1
WR/W



R9-8
B/W



R9-9
B/W



R9-10
B/W



R9-11
B/W



R9-11a
B/W



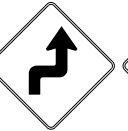
R11-2
B/W



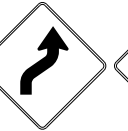
W1-1R
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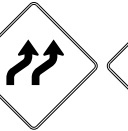
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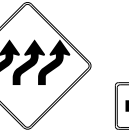
W1-3R
B/O



W1-4R
B/O



W1-4b
B/O



W1-4c
B/O



W1-6
B/O



W1-7
B/O



W1-8
B/O



W3-1
RB/O



W3-2
RB/O



W3-3
B(RYG)/O



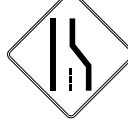
W3-4
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W3-5
B/O



W4-1
B/O



W4-2
B/O



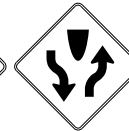
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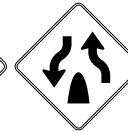
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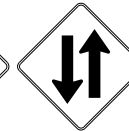
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W6-1
B/O



W6-2
B/O



W6-3
B/O



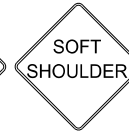
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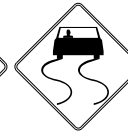
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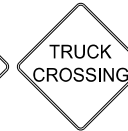
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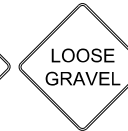
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B/O



W8-5
B/O



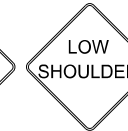
W8-6
B/O



W8-7
B/O



W8-8
B/O



W8-9
B/O



W8-9a
B/O



W8-11
B/O



W8-15P
B/O



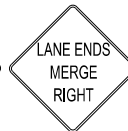
W9-1L
B/O



W9-1R
B/O



W9-2L
B/O



W9-2R
B/O



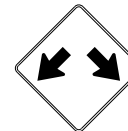
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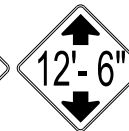
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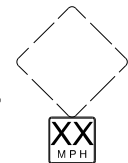
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W12-1
B/O



W12-2
B/O



W13-1
B/O



W16-1P
B/O



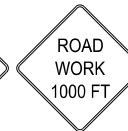
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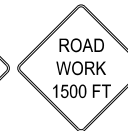
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B/O



W20-1A
B/O



W20-1B
B/O



W20-1C
B/O



W20-1D
B/O



W20-1E
B/O



W20-1F
B/O



W20-2A
B/O



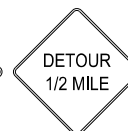
W20-2B
B/O



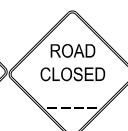
W20-2C
B/O



W20-2D
B/O



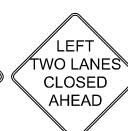
W20-2E
B/O



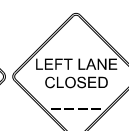
W20-3
B/O



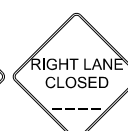
W20-4
B/O



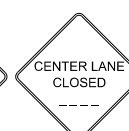
W20-5a
B/O



W20-5L
B/O



W20-5R
B/O



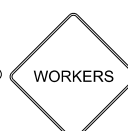
W20-5C
B/O



W20-7A
B/O



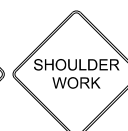
W20-7
B/O



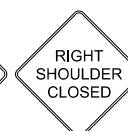
W21-1A
B/O



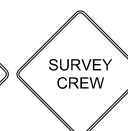
W21-1
B/O



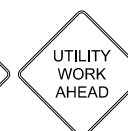
W21-5
B/O



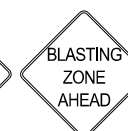
W21-5a
B/O



W21-6
B/O



W21-7
B/O



W22-1
B/O



W22-2
B/O



W22-3
B/O

NOTES:

1. The size of diamond shaped Temporary Traffic Control (TTC) warning signs shall be a minimum of 48" X 48".
2. Fluorescent orange shall be used for all orange colored work zone signs.
3. The sign shields, symbols and messages contained on this sheet are provided for ready reference to those signs used in the development of the 102 Series of Indexes and are commonly used in the development of traffic control plans. For additional signs and sign detail information refer to the STANDARD HIGHWAY SIGNS MANUAL as specified in the MUTCD. Special signs for traffic control plans will be as approved by the State Traffic Plans Engineer.

The sign codes shown on this sheet are for the purpose of identifying cell names found in the Traffic Control Cell Library (TCZ.Cel).

The STANDARD HIGHWAY SIGNS MANUAL should be referenced for the official sign codes for use in the development of traffic control plans.

See Index 700-102 for MOT sign details.

COLOR CODES:

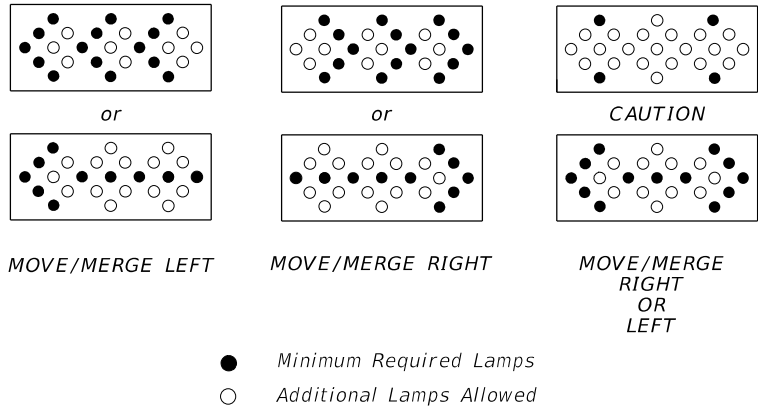
Legend and/or
Symbol Background

R-Red (Reflectorized)
Y-Yellow (Reflectorized)
G-Green (Reflectorized)
O-Orange (Reflectorized)
B-Black (Non-Reflectorized)
W-White (Reflectorized)

COMMONLY USED WARNING AND REGULATORY SIGNS IN WORK ZONES

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1/30/2025



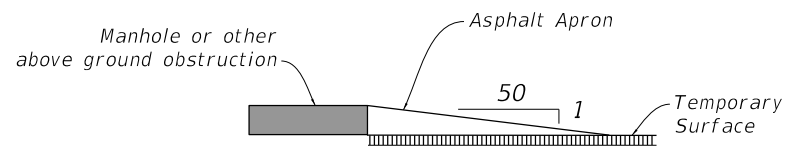
NOTES:
An arrow board in the arrow or chevron mode shall be used only for stationary or moving lane closures on multilane roadways.

For shoulder work, blocking the shoulder, for roadside work near the shoulder, or for temporarily closing one lane on a two-lane, two-way roadway, an arrow board shall be used only in the caution mode.

A single arrow board shall not be used to merge traffic laterally more than one lane. When arrow boards are used to close multiple lanes, a single board shall be used at the merging taper for each closed lane.

When Advance Warning Arrow Boards are used at night, the intensity of the flashers shall be reduced during darkness when lower intensities are desirable.

ADVANCE WARNING ARROW BOARDS

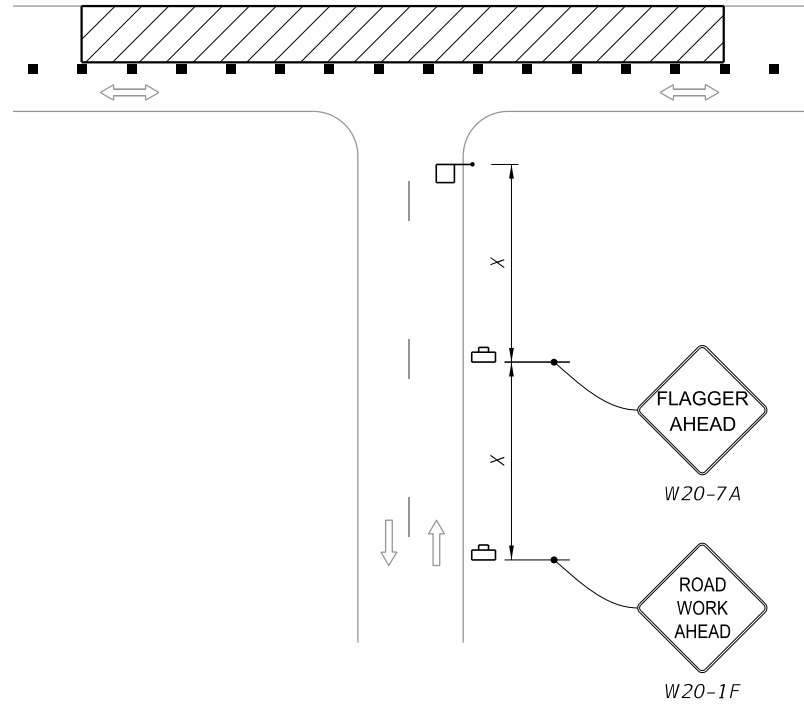


NOTES:
Manholes extending 1" or more above the travel lane and crosswalks having an uneven surface greater than 1/4" shall have a temporary asphalt apron constructed as shown above.

All transverse joints that have a difference in elevation of 1" or more shall have a temporary asphalt apron constructed as shown above.

The apron is to be removed prior to constructing the next lift of asphalt. The cost of the temporary asphalt shall be included in the contract unit price for Maintenance of Traffic, LS.

MANHOLES/CROSSWALKS/JOINTS



NOTE:
Optionally, use "Flagger Ahead" sign with text (W20-7A) instead of "Flagger Ahead" sign with symbol (W20-7).

SIDE ROAD INTERSECTING THE WORK ZONE

SIGNALS:
Existing traffic signal operations that require modification in order to carry out work zone traffic control shall be included in the Plans and be approved by the District Traffic Operations Engineer.

Refer to Specification 102-9 for additional information.

CHANNELIZING DEVICES:
Channelizing devices for work zone traffic control shall be as prescribed in Part VI of the MUTCD, subject to supplemental revisions provided in the contract documents and the 102 Series of Indexes. Lighting Devices must not be used to supplement channelization. Omit tapers and channelizing devices for paved shoulders less than 4' in width.

CHANNELIZING DEVICE CONSISTENCY:
Barricades, vertical panels, cones, tubular markers and drums shall not be intermixed within either the lateral transition or within the tangent alignment.

TRUCK/TRAILER-MOUNTED ATTENUATORS:
Truck/Trailer-mounted attenuators (TMA) can be used for moving operations and short-term stationary operations. For moving operations, see Index 102-607. For short-term, stationary operations, see Part VI of the MUTCD.

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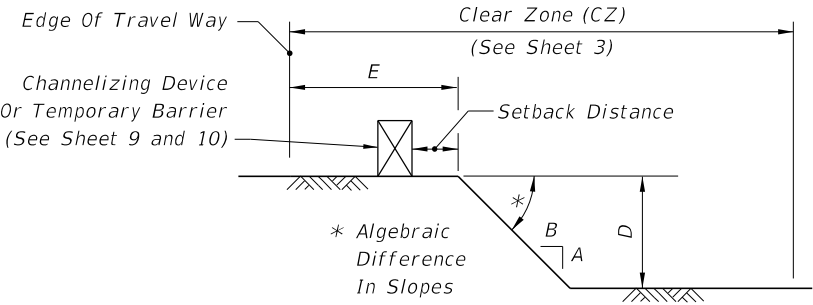
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GENERAL INFORMATION FOR TRAFFIC
CONTROL THROUGH WORK ZONES

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DROP-OFF CONDITION NOTES

- 1. These conditions and treatments can be applied only in work areas that fall within a properly signed work zone.
- 2. When drop-offs occur within the clear zone due to construction or maintenance activities, protection devices are required (See Table 8). A drop-off is defined as a drop in elevation, parallel to the adjacent travel lanes, greater than 3" with slope (A:B) steeper than 1:4. In superelevated sections, the algebraic difference in slopes should not exceed 0.25 (See Drop-off Condition Detail).
- 3. Drop-offs may be mitigated by placement of slopes with optional base material per Specifications Section 285. Slopes shallower than 1:4 may be required to avoid algebraic difference in slopes greater than 0.25. Include the cost for the placement and removal of the material in Maintenance of Traffic, LS. Use of this treatment in lieu of a temporary barrier is not eligible for CSIP consideration. Conduct daily inspections for deficiencies related to erosion, excessive slopes, rutting or other adverse conditions. Repair any deficiencies immediately.
- 4. For Setback Distance, refer to the Index or Approved Products List (APL) drawing of the selected barrier.
- 5. For Conditions 1 and 3 provided in Table 8, any drop-off condition that is created and restored within the same work period will not be subject to use of temporary barriers; however, channelizing devices will be required.
- 6. When permanent curb heights are ≥ 6", no channelizing device will be required. For curb heights < 6", see Table 8.

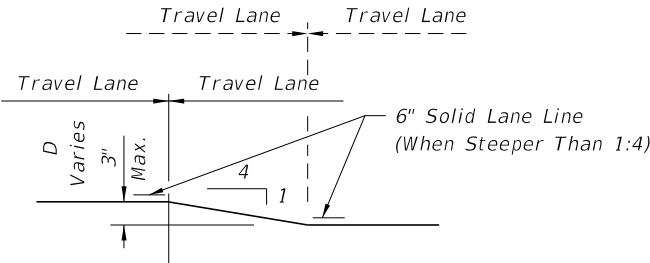


DROP-OFF CONDITION DETAIL

Table 8 Drop-off Protection Requirements			
Condition	E (ft)	D (in.)	Device Required
1	0-12	> 3	Temporary Barrier
2	> 12-CZ	> 3 to ≤ 5	Channelizing Device
3	0-CZ	> 5	Temporary Barrier
4	Removal of Bridge or Retaining Wall Barrier		Temporary Barrier
5	Removal of portions of Bridge Deck		Temporary Barrier

TRAVEL LANE TREATMENT FOR MILLING OR RESURFACING NOTES

- 1. This treatment applies to resurfacing or milling operations between adjacent travel lanes.
- 2. Whenever there is a difference in elevation between adjacent travel lanes, the W8-11 sign with "UNEVEN LANES" is required at intervals of ½ mile maximum.
- 3. If D is 1½" or less, no treatment is required.
- 4. Treatment allowed only when D is 3" or less.
- 5. If the slope is steeper than 1:4 (not to be steeper than 1:1), the R4-1 and MOT-1-06 signs shall be used as a supplement to the W8-11; this condition should never exceed 3 miles in length.



TRAVEL LANE TREATMENT FOR MILLING OR RESURFACING DETAIL

PEDESTRIAN WAY DROP-OFF CONDITION NOTES

- 1. A pedestrian way drop-off is defined as:
 - a. a drop in elevation greater than 10" that is closer than 2' from the edge of the pedestrian way
 - b. a slope steeper than 1:2 that begins closer than 2' from the edge of the pedestrian way when the total drop-off is greater than 60"
- 2. Protect any drop-off adjacent to a pedestrian way with pedestrian longitudinal channelizing devices, temporary barrier wall, or approved handrail.

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DROP-OFFS IN WORK ZONES

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102-600

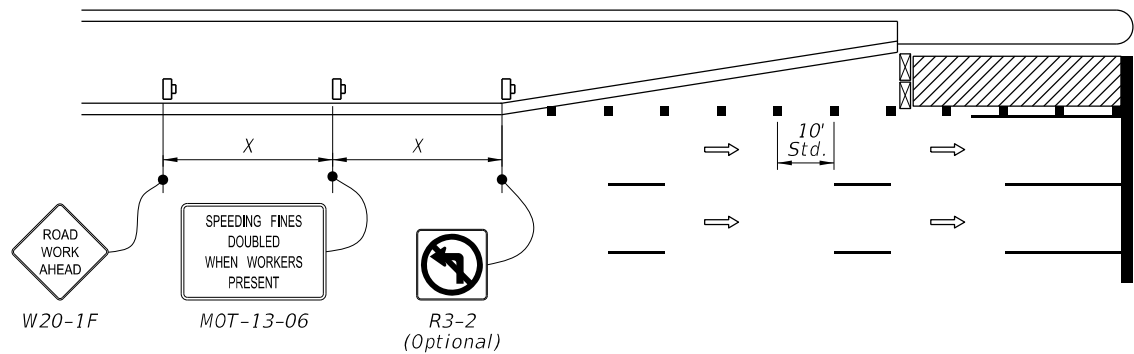
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FDOT

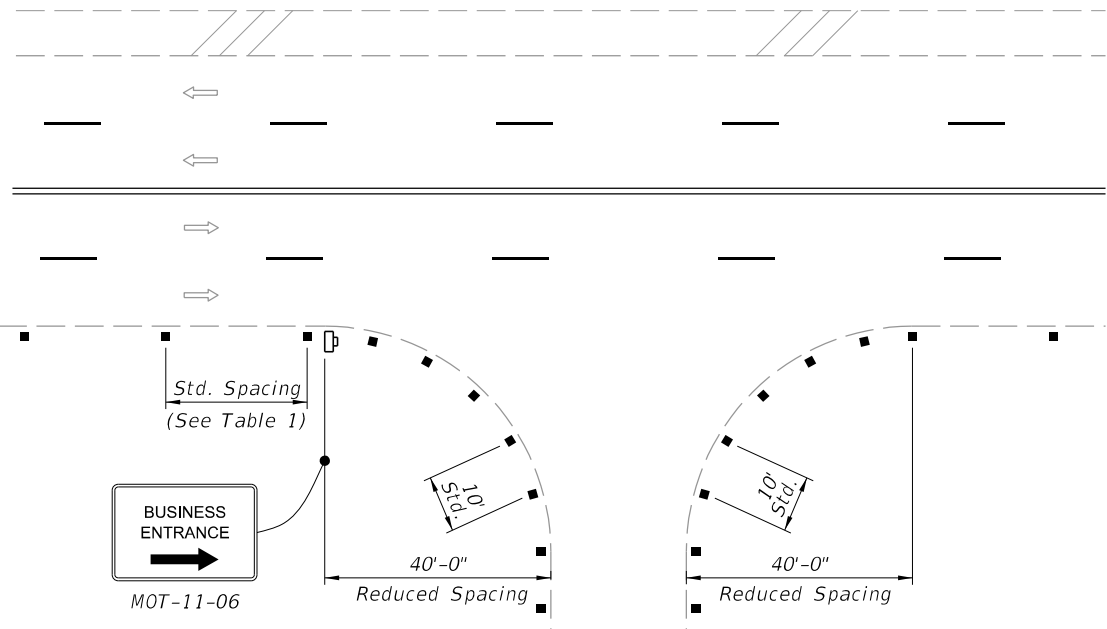
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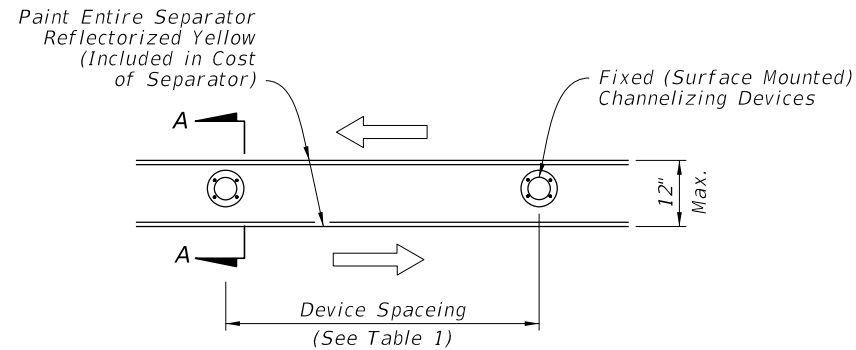
- NOTES:**
1. X = Work Zone Sign Spacing (See Table 3).
 2. The *SPEEDING FINES DOUBLE WHEN WORKERS PRESENT* sign (MOT-13-06) may be omitted when work operation will be in place for 24 hours or less.

AUXILIARY LANE CLOSURE

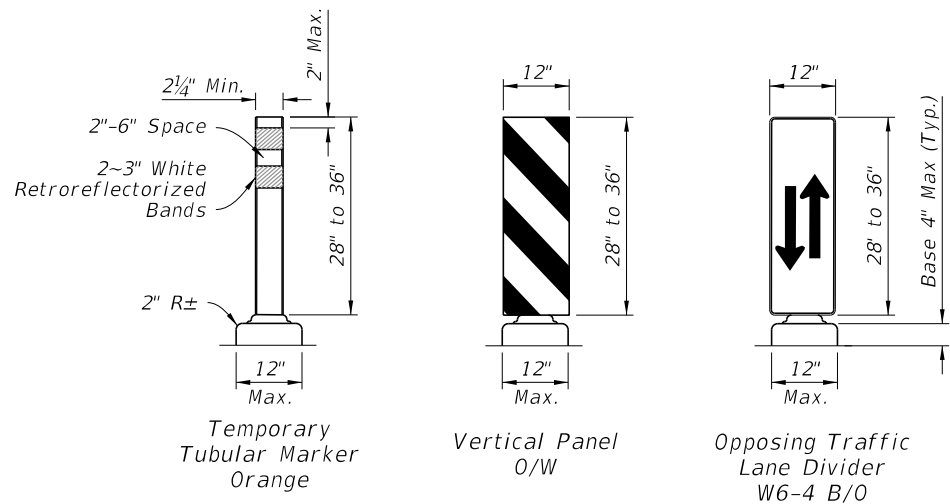


- NOTES:**
1. For single business entrances, place one 24" x 36" *BUSINESS ENTRANCE* sign (MOT-11-06) showing the specific business name for each affected driveway entrance. Logos may be provided by business owners. Standard *BUSINESS ENTRANCE* sign (MOT-11-06) may be used when approved by the Engineer.
 2. When several businesses share a common driveway entrance, place one 24" x 36" standard *BUSINESS ENTRANCE* sign (MOT-11-06) in accordance with Index 700-102 at the common driveway entrance.
 3. Channelizing devices shall be placed at a reduced spacing on each side of the driveway entrance, but shall not restrict sight distance for the driveway users.
 4. Business entrance signs are intended to guide motorist to business entrances moved/modified or disturbed during construction projects. Business entrance signs are not required where there is minimal disruption to business driveways which is often the case with resurfacing type projects.

BUSINESS ENTRANCE SIGNS AND CHANNELIZING DEVICES PLACEMENT AT BUSINESS ENTRANCE



PLAN



SECTION A-A

- NOTES:**
1. Temporary lane separators shall be supplemented with any of the following approved fixed (surface mounted) channelizing devices: temporary tubular markers, vertical panels, or opposing traffic lane divider panels. Opposing traffic lane divider panels (W6-4) shall only be used as center lane dividers to separate opposing vehicular traffic on a two-lane, two-way operation. Temporary Tubular Markers, Vertical Panels and Opposing Traffic Lane Divider panels shall not be intermixed within the limits where the temporary lane separator is used. The connection between the channelizing device and the temporary lane separator curb shall hold the channelizing device in a vertical position.
 2. ReflectORIZED materials shall have a smooth sealed outer surface which will display the same approximate color day and night. Furnish channelizing devices having retroreflective sheeting meeting the requirements of Section 990.
 3. 12" openings for drainage shall be constructed in the asphalt and portable temporary lane separator at a maximum spacing of 25' in areas with grades of 1% or less or 50' in areas with grades over 1% as directed by the Engineer.
 4. Tapered ends shall be used at the beginning and end of each run of the temporary lane separator to form a gradual increase in height from the pavement level to the top of the temporary lane separator.
 5. The Contractor has the option of using portable temporary lane separators containing fixed channelizing devices in lieu of the temporary asphalt separator and channelizing devices detailed on this sheet. The portable temporary lane separator shall come in portable sections that can be connected to maintain continuous alignment between the separate curb sections. Each temporary lane separator section shall be 36 inches to 48 inches in total length. Portable temporary lane separators shall duplicate the color of the pavement marking. Portable temporary lane separators shall be one of those listed on the Approved Products List.

FIXED CHANNELIZING DEVICES (Temporary Lane Separators)

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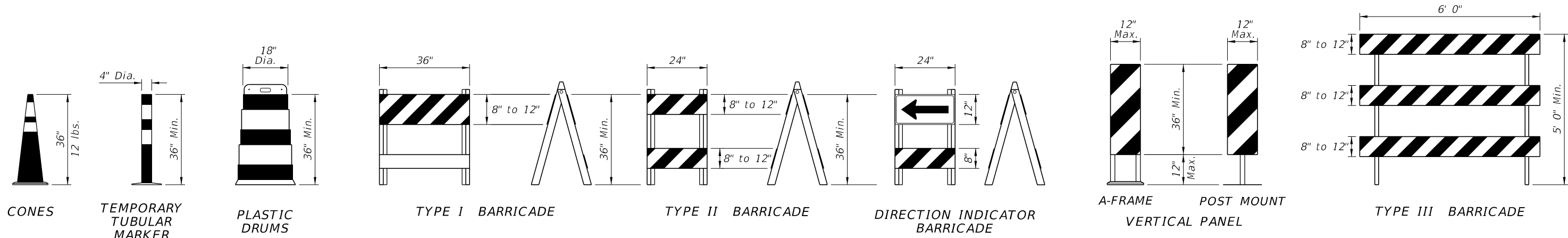
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DESCRIPTION:

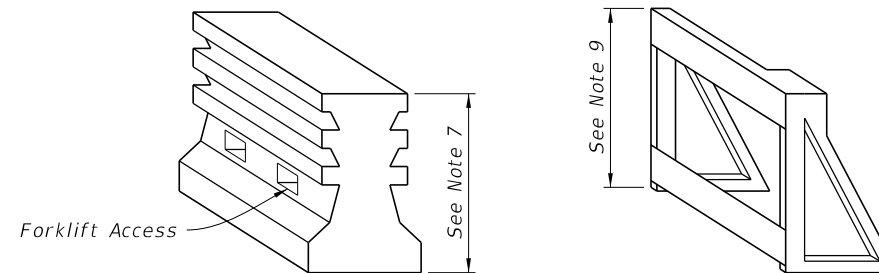
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CHANNELIZING DEVICES

CHANNELIZING DEVICE NOTES:

- The details shown on this sheet are for the following purposes:
 - For ease of identification and
 - To provide information that supplements or supersedes that provided by the MUTCD.
- The Type III Barricade shall have a unit length of 6'-0" only. When barricades of greater lengths are required those lengths shall be in multiples of the 6'-0" unit.
- No sign panel should be mounted on any channelizing device unless the channelizing device/sign combination was found to be crashworthy and the sign panel is mounted in accordance with the vendor drawing for the channelizing device shown on the Approved Products List (APL).
- Ballast shall not be placed on top rails or any striped rails or higher than 13" above the driving surface.
- The direction indicator barricade may be used in tapers and transitions where specific directional guidance to drivers is necessary. If used, direction indicator barricades shall be used in series to direct the driver through the transition and into the intended travel lane.
- The splicing of sheeting is not permitted on channelizing devices or MOT signs.
- For rails less than 3'-0" long, 4" stripes shall be used.
- Cones shall:
 - Be used only in active work zones where workers are present.
 - Be reflectorized as per the MUTCD with Department-approved reflective collars when used at night.
- For pedestrian longitudinal channelizing devices, the device shall have a minimum of 8" continuous detectable edging above the walkway. A gap not exceeding a height of 2" is allowed to facilitate drainage. The top surface of the device shall be a minimum height of 32" and have a 1/8" or less difference in any plane at all connection points between the devices to facilitate hand trailing. The bottom and the top surface of the device shall be in the same vertical plane. If pedestrian drop-off protection is required, the device shall have a footprint or offset of at least 2', otherwise the device must be at least 42" in height above the walkway and be anchored or ballasted to withstand a 200 lb lateral point load at the top of the device.



PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICES

TEMPORARY BARRIER NOTES:

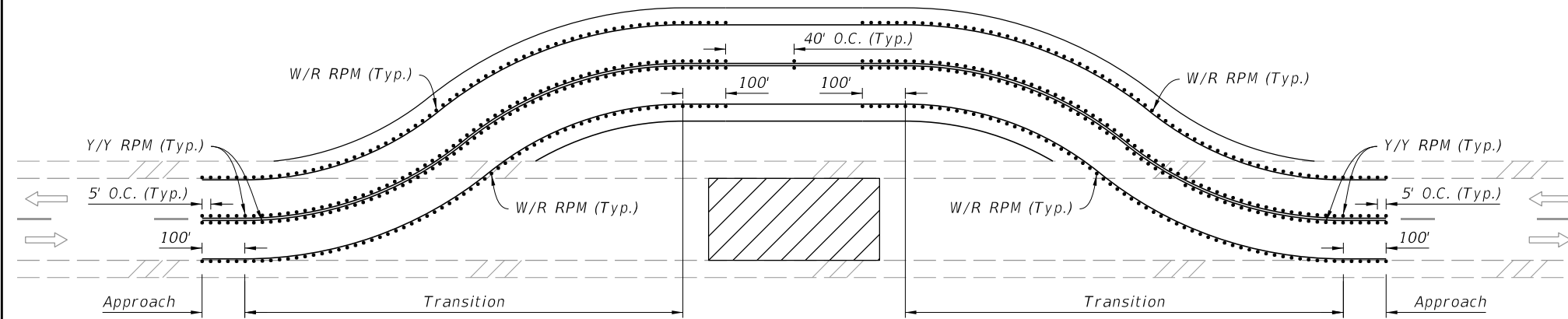
- Where a barrier is specified, any of the types below may be used in accordance with the applicable Index:

Index	Description
102-100	Temporary Barrier
102-120	Low Profile Barrier
536-001	Guardrail
- Trailer Mounted Barriers may be used to provide positive protection for workers within the work areas. APL drawings may be used as a guide to develop project specific Temporary Traffic Control Plans that are signed and sealed by the Contractor's Engineer.

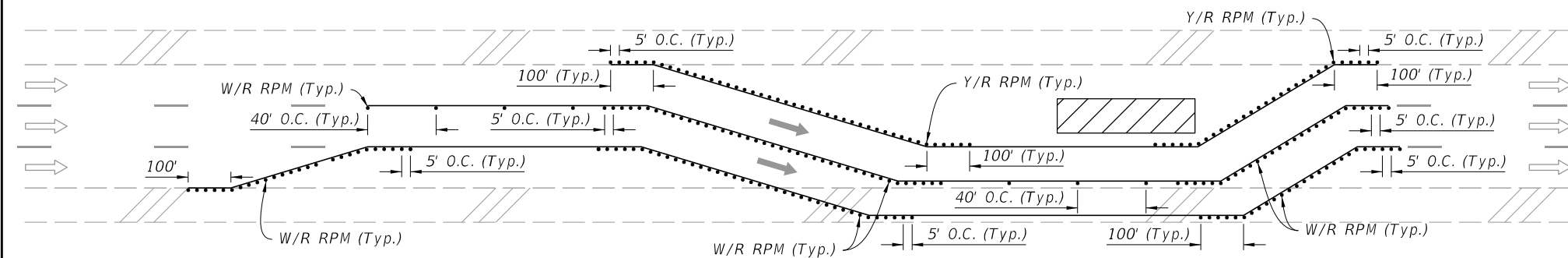
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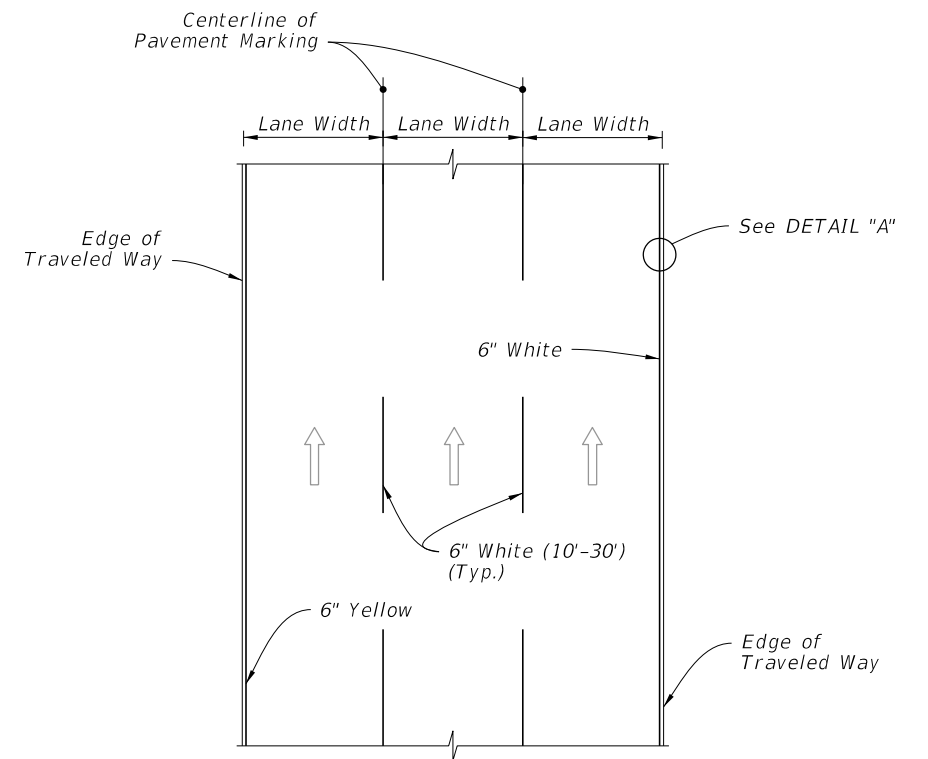
RPM PLACEMENT ON TWO-LANE ROADWAYS



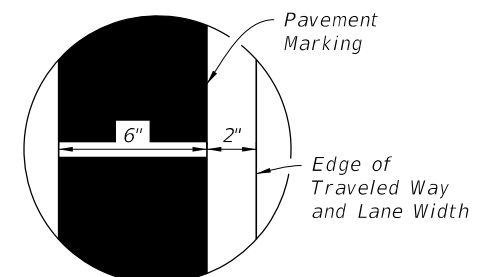
RPM PLACEMENT ON MULTILANE ROADWAYS
(Lane Shift Shown, Other Multilane Typical Applications Similar)

NOTES:

1. Install RPMs as a supplement to:
 - a. All lane lines
 - b. Edge lines in transitions (e.g., merges, diversions, lane shifts)
 - c. Edge lines of gore areas
2. Extend pavement marking and 5' RPM spacing by 100' in each direction for all transitions regardless of the line type.
3. Place RPMs in accordance with this detail and Index 706-001.



PLAN VIEW



DETAIL "A"

RPM PLACEMENT IN WORK ZONES

PAVEMENT MARKINGS PLACEMENT

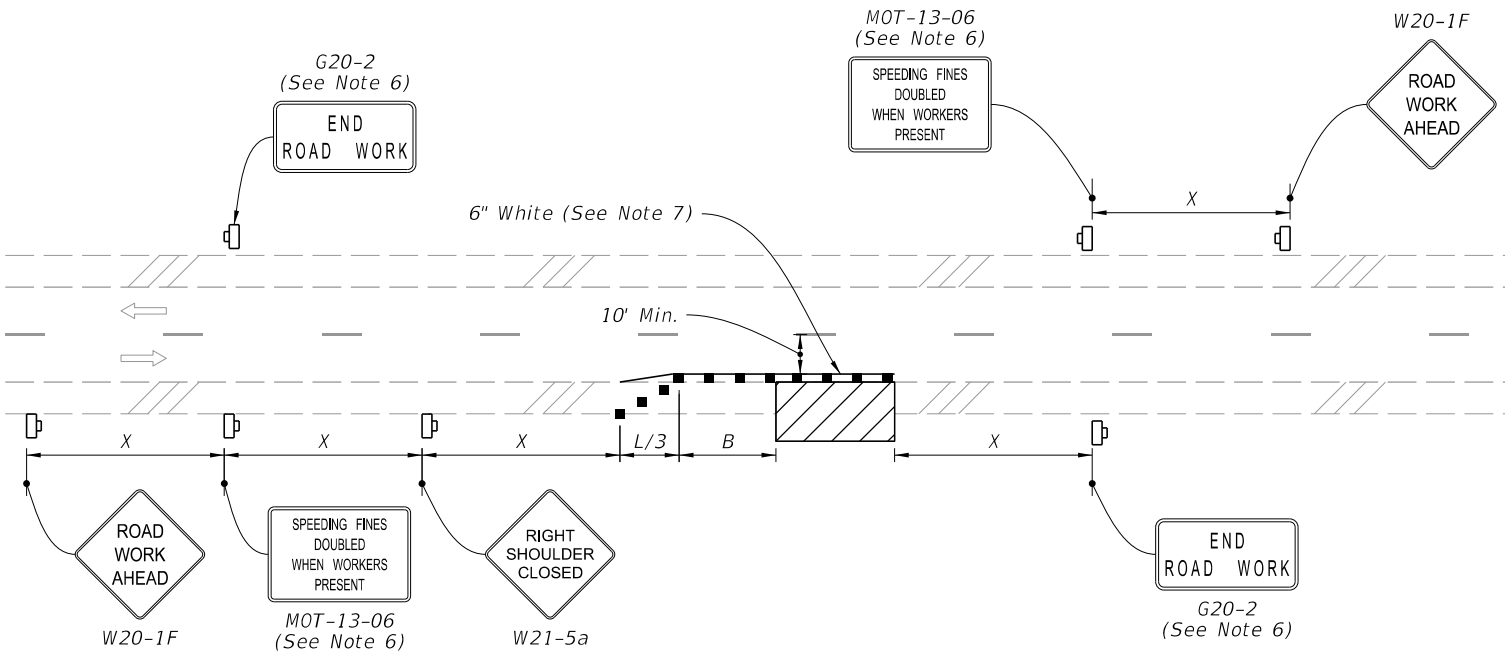
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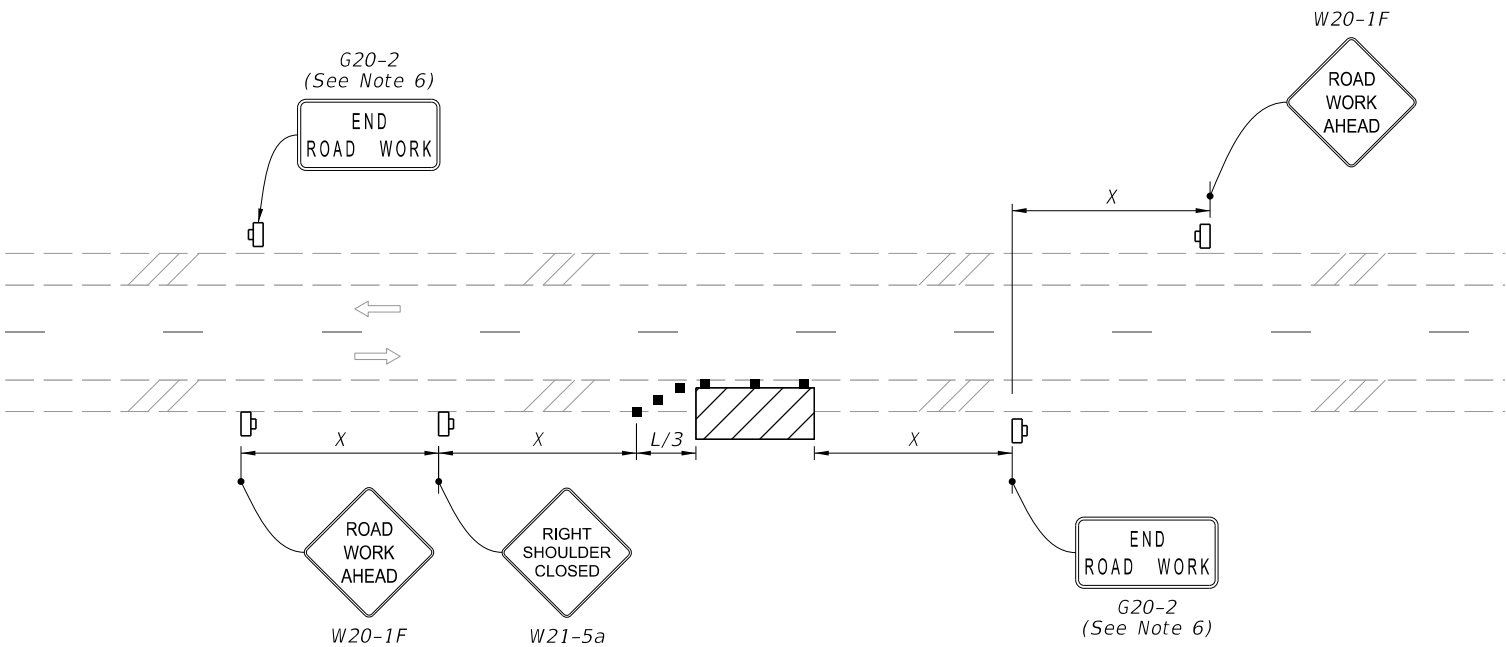
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Lisa Ward
1/30/2025
WORK ZONE PAVEMENT MARKINGS

- NOTE:**
- 1. This Index applies to Two-Lane, Two-Way and Multilane Roadways, including Medians of divided roadways, with work on the shoulder.
 - 2. L = Taper Length
 X = Work Zone Sign Spacing
 B = Buffer Length
See Index 102-600 for "L", "X", "B", and channelizing device spacing values.
 - 3. Where work activities are between 2' and 15' from the edge of traveled way, the Engineer may omit signs and channelizing devices for work operations 60 minutes or less.
 - 4. When four or more work vehicles enter the through traffic lanes in a one hour period (excluding establishing and terminating the work area), use a flagger or lane closure to accommodate work vehicle ingress and egress.
 - 5. For work less than 2' from the traveled way and work zone speed is greater than 45 MPH, use a lane closure.
 - 6. The "Speeding Fines Doubled When Workers Present" signs (M0T-13-06) and "End Road Work" Signs (G20-2) along with the associated work zone sign spacing distances may be omitted when the work operation is in place for 24 hours or less.
 - 7. Temporary pavement markings may be omitted when the work operation is in place for 3 days or less.
 - 8. Omit "Shoulder Closed" signs (W21-5a) along with associated work zone sign spacing distances for work on the median.
 - 9. When there is no paved shoulder, the "Worker" sign (W21-1) may be used instead of the "Shoulder Closed" sign (W21-5a).

- SYMBOLS:**
-  Work Area
 -  Channelizing Device (See Index 102-600)
 -  Work Zone Sign
 -  Lane Identification and Direction of Traffic



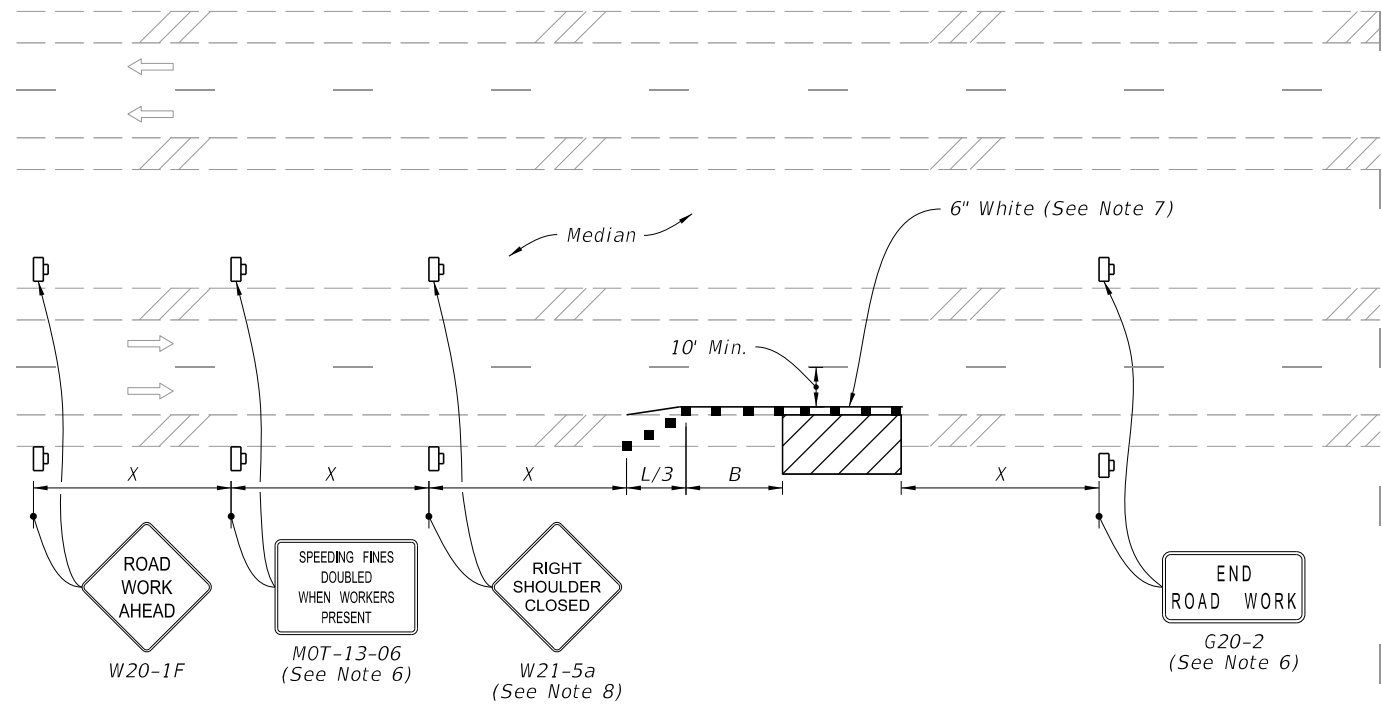
TWO-LANE ROADWAY
SHOULDER WORK LESS THAN 2' FROM THE TRAVELED WAY
WITH WORK ZONE SPEED OF 45 MPH OR LESS



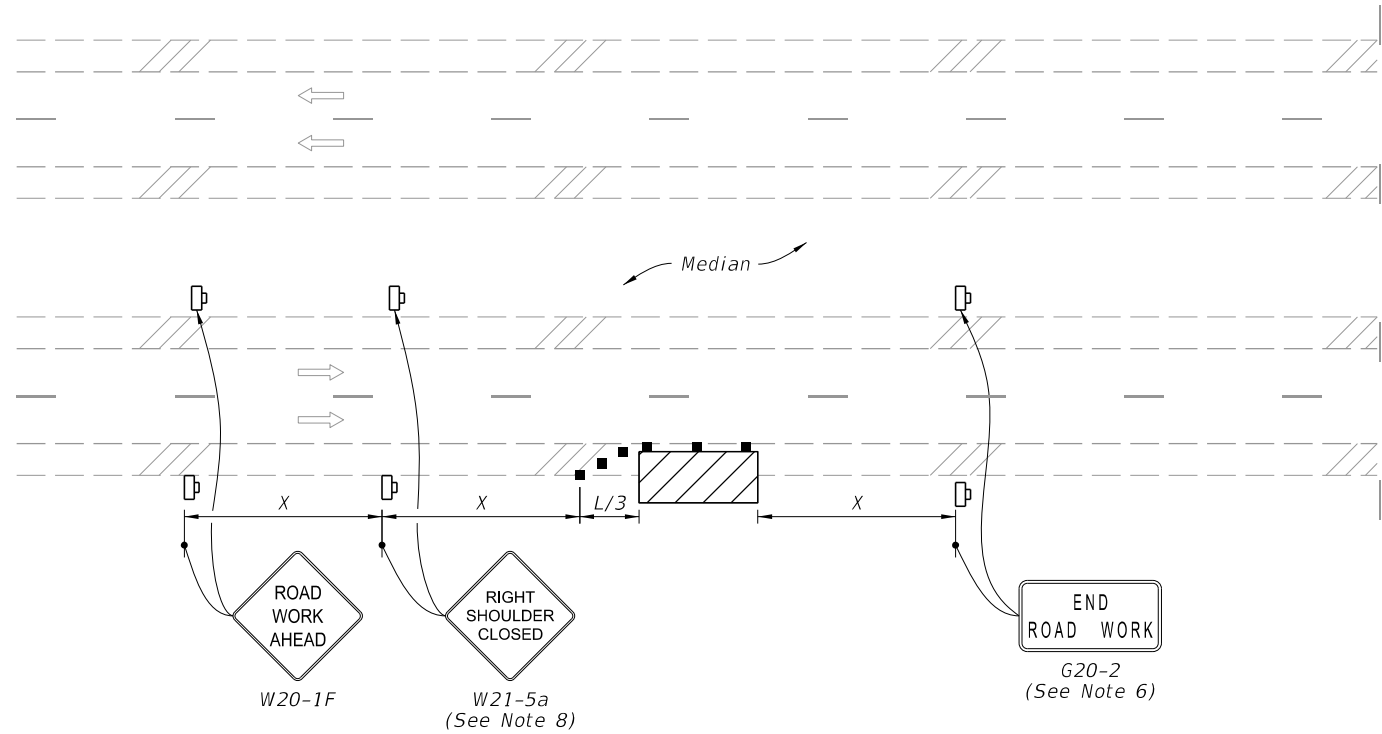
TWO-LANE ROADWAY
SHOULDER WORK BETWEEN 2' AND 15' FROM THE TRAVELED WAY

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MULTILANE ROADWAY
SHOULDER WORK LESS THAN 2' FROM THE TRAVELED WAY
WITH WORK ZONE SPEED OF 45 MPH OR LESS



MULTILANE ROADWAY
SHOULDER WORK BETWEEN 2' AND 15' FROM THE TRAVELED WAY

- SYMBOLS:**
- Work Area
 - Channelizing Device (See Index 102-600)
 - Work Zone Sign
 - Lane Identification and Direction of Traffic



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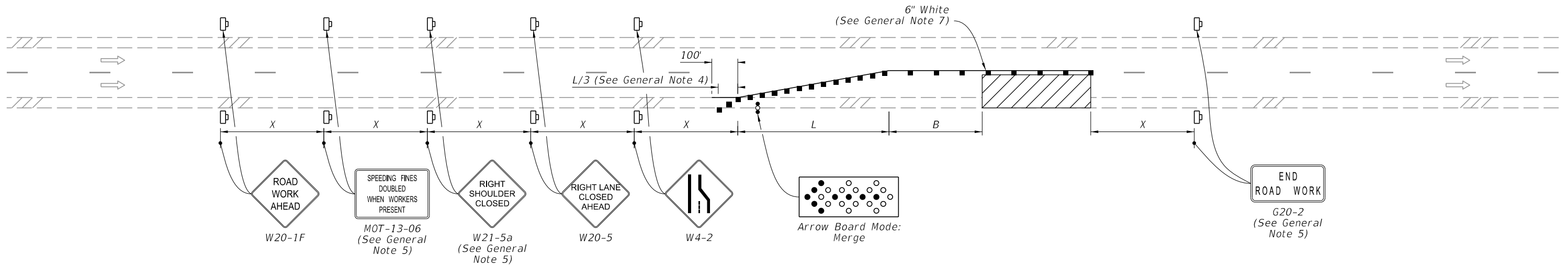
TWO-LANE AND MULTILANE, WORK ON SHOULDER

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SINGLE LANE CLOSURE

SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Arrow Board
- Lane Identification and Direction of Traffic

GENERAL NOTE:

1. L = Taper Length
 B = Buffer Length
 X = Work Zone Sign Distance
See Index 102-600 for " L ", " B ", " X ", and channelizing device spacing values.
2. On undivided highways the median signs as shown are to be omitted.
3. On limited access facilities, omit "Right Shoulder Closed" signs (W21-5a) and associated work zone sign spacing distances.
4. If the paved shoulder is less than 4' in width, omit the taper and channelizing devices from the paved shoulder.
5. The "Speeding Fines Doubled When Workers Present" signs (M0T-13-06) and "End Road Work" signs (G20-2) and "Right Shoulder Closed" (W21-5a), along with associated work zone sign distances, may be omitted when the work operation will be in place for 24 hours or less. For Single Lane Closures, arrow boards and buffer (B) may also be omitted when the work operation will be in place for 60 minutes or less and the speed limit is 45 mph or less.
6. Use inverted plan of the illustrations for work on left side of roadways.
7. Temporary pavement markings may be omitted when the work operation is in place for 3 days or less.



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MULTILANE ROADWAY, LANE CLOSURES

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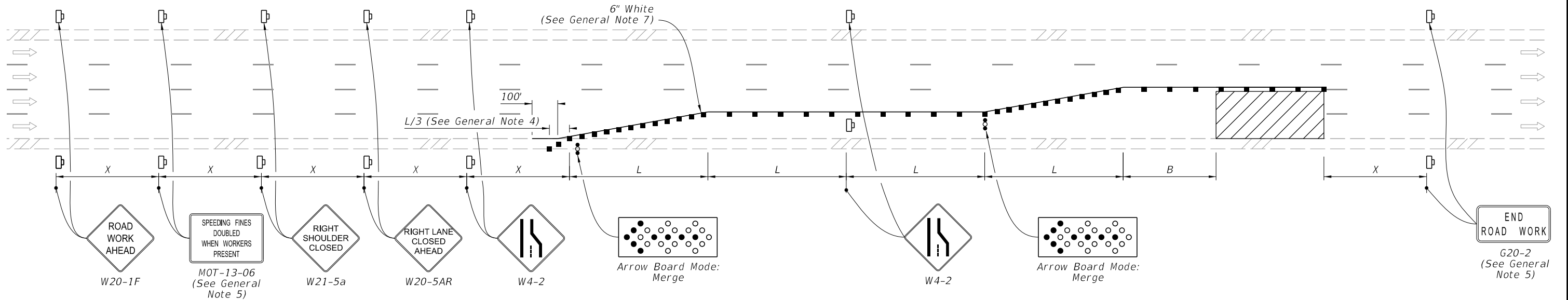
Approved
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1/30/2025

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REVISION
DESCRIPTION:

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DOUBLE LANE CLOSURE

SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Arrow Board
- Lane Identification and Direction of Traffic



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STANDARD PLANS

MULTILANE ROADWAY, LANE CLOSURES

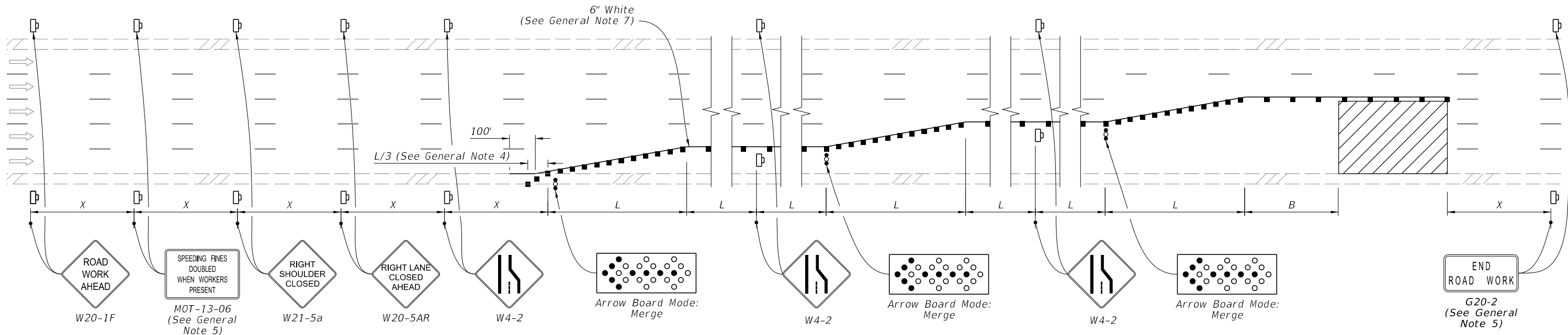
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Approved
2024-A-391-00044

Lisa Ward
1/30/2025

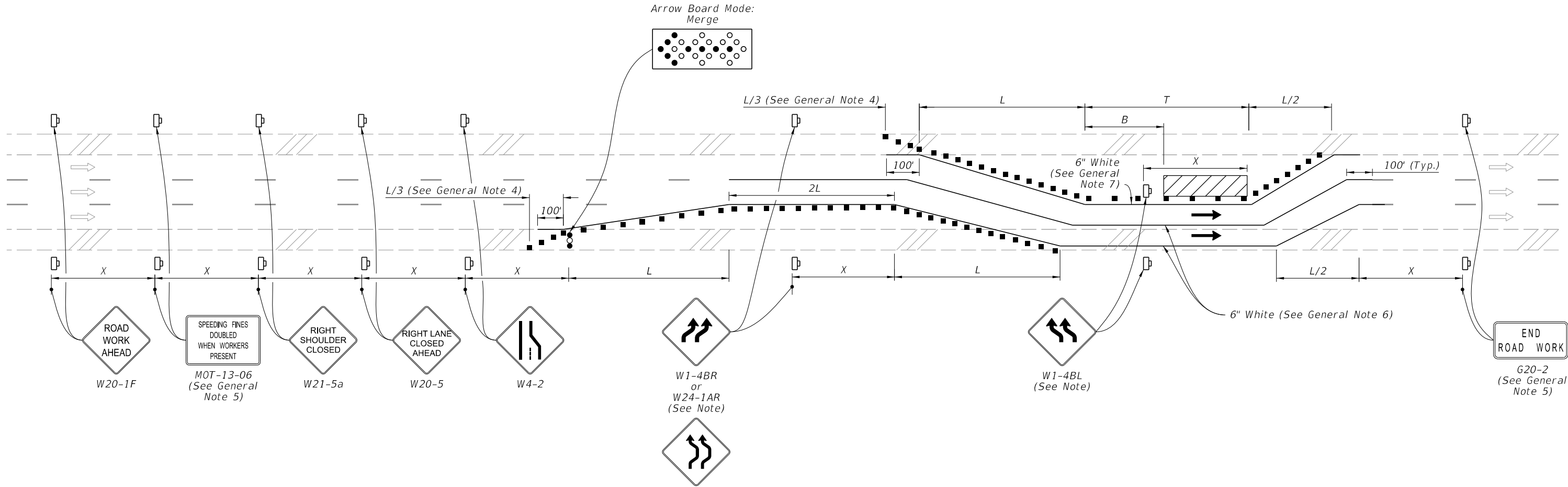
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SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Arrow Board
- Lane Identification and Direction of Traffic

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NOTE:

If the tangent distance "T" is less than 600', then use "Double Reverse Curve" signs (W24-1A) instead of the first pair of "Reverse Curve" signs (W1-4B) and omit the second pair of "Reverse Curve" signs.

SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Arrow Board
- Lane Identification and Direction of Traffic



FY 2024-25
STANDARD PLANS

MULTILANE ROADWAY, LANE CLOSURES

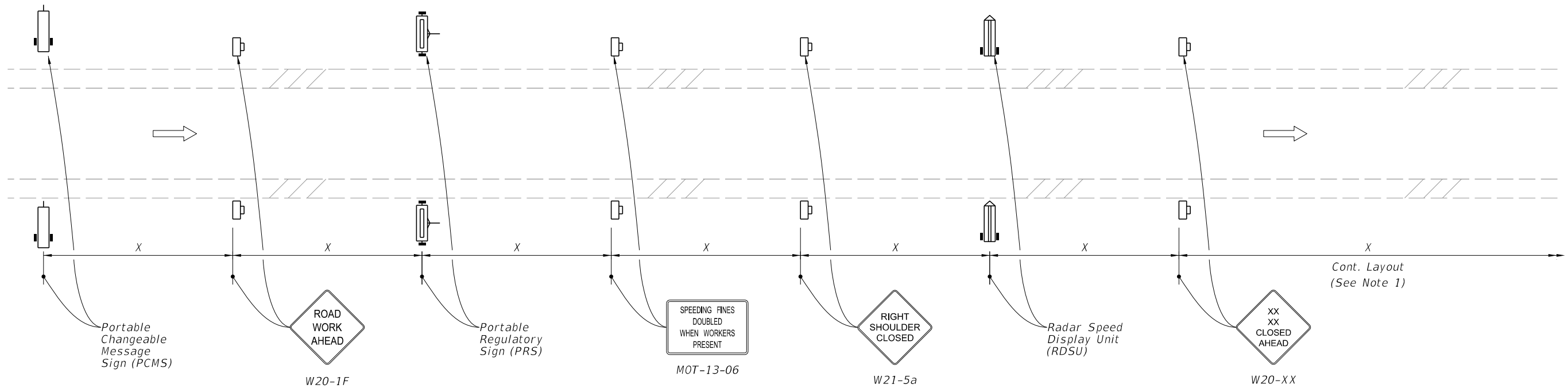
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MOTORIST AWARENESS SYSTEM

SYMBOLS:

-  Work Zone Sign
-  (1) PCMS= Portable Changeable (Variable) Message Sign
-  (2) PRS= Portable Regulatory Sign-Speed Limit When Flashing
-  (2) RSDU= Radar Speed Display Unit
-  Lane Identification and Direction of Traffic

NOTES:

1. Use the Motorist Awareness System (MAS) for lane closures of at least 5 days (consecutive or not) on multilane divided facilities with a posted speed of 55 mph or greater when workers are present and not protected by a barrier.
2. Locate the Motorist MAS devices (i.e., PCMS, PRS, and RDSU) within the advance warning signs as shown. Continue with the remainder of the work zone signs and devices in accordance with the Plans or Standard Plans after the appropriate "Lane Closed Ahead" (W20-XX) sign.
3. For a posted speed of 65 mph or greater, display speed with a ten mph reduction. For a posted speed of 60 mph, display a reduced speed of 55 mph. For areas outside of the lane closure, use the posted speed as the work zone speed.
4. Omit the PCMS in the median for roadways with three lanes or less in the same direction of traffic.

TYPICAL PCMS DISPLAY:

- With speed reduction:
Message 1: WORKERS PRESENT AHEAD
Message 2: SPEED REDUCED NEXT XXMI
- Without speed reduction:
Message 1: WORKERS PRESENT AHEAD
Message 2: NEXT XX MILES



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MULTILANE ROADWAY, LANE CLOSURES

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