



# CITY OF CLEARWATER

ENGINEERING DEPARTMENT  
MUNICIPAL SERVICES BUILDING, 100 S. MYRTLE AVENUE  
CLEARWATER, FLORIDA 33756  
TELEPHONE (727) 562-4750 FAX (727) 562-4755

## PUBLIC NOTICE

### ADDENDUM TWO

Date: March 5, 2021

Project: Cleveland St. Streetscape Phase III & Festival Core

For: All concerned parties

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**NOTICE IS HEREBY GIVEN** that the following addendum serves to provide Duke Energy's lighting plans, the Engineer of Record's responses to Requests For Information, and an amended plan set from the Engineer of Record.

**END OF NOTICE**

Mark Bunker, Councilmember  
Kathleen Beckman, Councilmember

Frank Hibbard, Mayor



David Allbritton, Councilmember  
Hoyt Hamilton, Councilmember

"Equal Employment and Affirmative Action Employer"

# MEMO



Date:	March 4, 2021
Project No.	<b>Cleveland Street Streetscape Phase III, 16-0003 EN &amp; 19-0026-EN</b>
To:	Catherine Corcoran, RLA
From:	Christina M. Newcomb, PE
Subject:	<b>RESPONSES TO CONTRACTOR'S QUESTIONS – PRE-BIDDING PHASE</b>

## Pre-Bid Questions from David Nelson Construction Co. (02/05/2021)

1. Bid item 1004 reads mill asphalt. Since this is in the demolition section should this read asphalt removal so that the contractor has the option of how they remove the existing asphalt?

***Response: A pay item will be added for demo of asphalt. There is also a portion of milling and resurfacing on Gulf to Bay Blvd, from Station 2016+80.00 to 2022+60.00, therefore this item will remain.***

2. Bid item 2002 for erosion and sedimentation controls is being bid as a lump sum. However the erosion control plans do not indicate where the erosion controls are to be installed. Please provide a quantity and bid item for each device or provide more information.

***Response: Quantities and pay items will not be provided. Erosion and sedimentation Control is dependent on the Contractor's means and methods for Phasing of work and Traffic Control. See General Notes sheet for more information.***

3. Bid item 2011 and 2013 for sidewalk and driveway do not specify the thickness or surface finish. Please provide the thickness and surface finish. The surface finishes are shown on the SP drawings as type P1, P2, P3, P5, V1, or V2. Each of these items need a separate pay item.

***Response: The detail on drawing 354 show the thicknesses. Pay items will be added to cover finishes.***

4. Drawing 354 is calling for 8" thick concrete driveway. Please provide a pay item and quantity for this work.

***Update Response on website: The callout for 8" driveway on the detail is a typo (plans will be updated). All Driveways shall be 6" thick, within the limits shown on the detail. All sidewalk pavement and bike lanes shall be 4" thick, per the detail. Separate Pay Items will be added, the Pay items will be updated with the thicknesses.***

5. On drawing 462 the detail 4 for the rain garden calls for an 8" reinforced concrete wall that is 5'-4" tall. We are questioning if this wall should have a footing or other means of bracing.

***Response: A footing is not necessary if infill and backfill is done simultaneously. The Contractor shall submit Shop Drawings and phasing of construction.***

# MEMO



6. Pay item 3001 for patterned pavement vehicular areas, green bike lane is referred to on the SP drawings as green paint. Please clarify if any pattern is required. Please clarify is the product is paint, thermoplastic, or other product and if a specific manufacture is desired.

***Response: The pavement markings shall be paint, per the detail on sheet 921. Pay Item description will be updated***

7. Note 15 on sheet LA-11 requires the contractor to guarantee the plant survivability for 12 month. Please advise who is responsible for the 12 months maintenance. If the contractor is responsible please provide a pay item.

***Response: It is standard procedure, for streetscape projects, that the City of Clearwater's Parks and Recreation department will take over maintenance once the project has been completed and all punch list items have been corrected.***

8. The pay items 10001 through 10008 have a bid quantity of 1 but they are not lump sum. Should these items be LS?

***Response: Pay items will be revised to lump sum***

9. Sheets 105 and 107 indicate for removal of existing signalization. Please clarify if this is by the contractor and if so provide a pay item.

***Response: The Contractor shall coordinate with City of Clearwater staff, who will remove the traffic signals at Cleveland/Gulf-to-Bay and Park/Gulf-to-Bay and adjust the signal at Cleveland/Missouri.***

10. Note 4 on sheet 201 refers to Duke Energy drawings which we have not found. It also reads that the contractor is responsible to install the conduit. Please provide these drawings and a pay item for the conduit.

***Response: The Duke plans will be provided, and a conduit Pay item will be added***

11. There is a pay item 5001 for lighting (139 lights). If Duke Energy is providing the lighting what is this pay item for?

***Response: This pay item will be removed. The City will pay Duke Energy directly for the lighting.***

12. Is there a utility relocation schedule available for the different private utilities such as Duke, Verizon, Bright house, Gas etc.?

***Response: The only Utility that will be relocated is Duke Energy, as shown in the Utility adjustment plans.***

13. What is the pavement section for Cleveland Street for the area shown on sheet SP-06? It appears to be concrete on sheet SP-06 but there are no call outs. However the typical detail on sheet 201 is showing asphalt, crushed concrete, and stabilized sub base. If the intend is for concrete please modify the typical cross section so that we know the specifics.

# MEMO



***Response: The intent of the design is to match the typical shown on 201***

14. We do not find any maintenance of traffic plans in the bid set. If no plans are going to be provided then we need to know what the restrictions are going to be such as will a road closure with detours be allowed? If so, in one direction only or both directions? Will we be allowed to detour traffic for side streets? Will temporary sidewalk and temporary parking be required to maintain access to stores, homes, and businesses? What will be the posted speed limit through the construction? Will our MOT plans need to be signed by a Florida PE?

***Response: The Contractor is responsible for the design and implementation of the MOT for this project. As part of the RFP, the City is interested a Contractor's approach in providing alternatives for MOT which meet the City's goal of maintaining local access and accommodate bus routes while simultaneously meeting the Construction Schedule and being economical. Additionally, the MOT will need to be flexible and reactive to the local businesses and users. Due to the expected complexity of the MOT, it is our expectation that you will have your MOT plans will be signed and sealed by a Florida PE, who FDOT MOT certified.***

15. Please provide any geotech reports and asphalt core borings that are available.

***Response: The Geotechnical reports for Cleveland street and the Festival Core area have been uploaded as addenda.***

16. On sheet 308 there appears to be some concrete stairs or steps near station 2011+00. Are these existing or new. If new please provide a pay item.

***Response: Those are proposed. A pay item and a detail will be provided.***

17. Is there any new signalization?

***Response: No.***

## Questions from David Nelson Construction Co. (email 2/19/2021)

1. On sheet 353 there is a note that reads that the detectable warning surface is by Hanover Architectural Products or approved equal. Since these are pavers will a concrete slab be required under the pavers? Please provide a typical detail. Also please provide a pay item and quantity.

***Response: the detail will be update to provide for detectable warning strip in accordance with FDOT standard plans 522-002, Safety Yellow. A pay item and qty will be added.***

2. Will a building permit be required for the Festival Core (Mercado Plans) and have these plans been submitted to the building dept for review?

***Response: City staff will handle the permitting of the mercado shade structure and associated fees.***

3. Technical spec section 2752 is for colored concrete. We have not found colored concrete anywhere on the plans. Did we miss something?

# MEMO



***Response: Colored concrete was removed from project scope, disregard spec sections.***

4. Please provide pay items for the type V1 and V2 paving that is shown on the SP plans. How thick is the paving? Is a stabilized base required? The typical sections on sheet 201 indicate asphalt.

***Response: Pay items and qty will be added.***

## Questions from David Nelson Construction Co. (email 2/21/2021)

1. In the Plan set, Cover sheet 000 does not align with the individual sheets in that Set.
  - a. Sub-set of sheets labelled on Cover Sheet 000 as sheets "361, 362, 363 Festival Core Site" plan, are labelled 360, 361, and 362 on the Plan Sheets (which can cause some confusion when referencing a plan sheet to a Sub ).

***Response: Will update Sheet index to accurate reflect sheet#***

- b. Sub-set of sheets labelled on Cover Sheet 000 as sheets "460-468, Drainage Details" contains sheets 460 to 465, then (unlisted) sheets 456 Drainage Details, 457 Drainage Details, and 457 Baffle Box Box Details, which do appear to belong to that set.

***Response: See response above.***

- c. Sub-set of sheets labelled on Cover Sheet 000 as sheets "901-910, Traffic Sign & Pavement" also contains Sheet 906 A.

***Response: 906A falls between 901 and 910.***

Yellow inserts show Numbering on Plan Sheets

# MEMO



## SHEET INDEX

### ROADWAY AND UTILITY PLANS

SHEET #	SHEET DESCRIPTION
000	COVER SHEET
001	GENERAL NOTES
002	KEY MAP
101-110	DEMOLITION PLANS
201-202	TYPICAL SECTIONS
301-310	ROADWAY PLAN & PROFILE
311-329	ROADWAY CROSS SECTIONS ROADWAY
330-340	INTERSECTION PLANS
350-354	ROADWAY DETAILS
—361 <small>360</small>	FESTIVAL CORE SITE PLAN
—362 <small>361</small>	FESTIVAL CORE JOINT PLAN
—363 <small>362</small>	FESTIVAL CORE DETAILS
400-411	DRAINAGE PLAN AND PROFILE
460-468	DRAINAGE DETAILS
470-473	SWPPP - EROSION CONTROL
600	UTILITY NOTES
601-612	UTILITY PLAN
620-622	UTILITY DETAILS
701-710	UTILITY ADJUSTMENT PLAN
901-910 <small>and 906 A</small>	TRAFFIC SIGN & PAVEMENT MARKING PLANS
921	TRAFFIC SIGN & PAVEMENT MARKING DETAILS

- d. Where do we find (or please publish) the most up-to-date Listing of the Plan Sheets, so Bidder knows they have all the plan sheets that pertain to this project?

**Response: The Index of drawings is the list of Plan sheets for both the Cleveland street plan set and the "goes with" set of the for the Festival Core.**

## Questions from Gibbs & Register (email 2/24/2021)

1. Items 10001 through 10008 of the bid/ form for the Gateway Festival Core have a quantity of one (1). Will actual quantities be provided an/d the bid form be revised?

**Response: the units will be changed to lump sum.**

2. Will maintenance of traffic plans be provided? Or will the Contractor be responsible to devise our own plan?

**Response: The Contractor is responsible for the design and implementation of the MOT for this project. As part of the RFP, the City is interested a Contractor's approach in providing alternatives for MOT which meet the City's goal of maintaining local access and accommodate bus routes while simultaneously meeting the Construction Schedule and being economical. Additionally, the MOT will need to be flexible and reactive to the local businesses and users. Due to the expected complexity of the MOT, it is our expectation that you will have your MOT plans will be signed and sealed by a Florida PE, who FDOT MOT certified.**

# MEMO

3. What are the lane closure restrictions? What are the minimum number of lanes to be maintained? What hours are we allowed to have lane closures? When and how long are detours allowed?

***Response: See response to 2***

4. Will MOT plans need to be signed and sealed by a professional engineer?

***Response: See response to 2***

5. Is there City owned land available for construction laydown?

***Response: The Contractor is responsible for making their own laydown arrangements.***

6. Per Note 12 of the Paving, Grading, and Drainage section of the General Notes on Sheet 001, the Contractor is to utilize the existing storm drainage system to divert the storm runoff during construction. a) Will a complete map of the existing storm drainage system be provided so flows can be analyzed? b) Will cleaning of the existing lines be required for storm water diversions?

***Response: The latest information showing existing drainage, will be provided to the Contractor with the CAD files. This system is being replaced as part of this project.***

7. General and Construction Note 27 in the General Notes states the Contractor is to take possession of all excess soil not claimed by the Owner. Does the Owner claim any, or all, of the excess soils?

***Response: The City has first right of refusal for all excess soil generated and the contractor is expected to coordinate with the City as excess soil is generated throughout the project duration.***

8. On Sheet 404 there are two separate 42" diameter runs of RCP that terminate at an existing box culvert, but there is no tie-in information provided. Please provide termination information for these two pipe runs.

***Response: The location of the connection matches the existing pipe size and invert. The Contractor shall submit shop-drawings for method of tie-in.***

9. On Sheet 404 there is a pipe run between structures DS-3-11 and DS-3-12. No pipe size or length is provided. Please provide the missing information.

***Response: Missing pipe size and length will be added.***

10. The bid form has 11,000 LF of 8" PVC Contech Pipe, A-2000. The drainage plans do not indicate the location for this piping, clean-outs, or structure tie-ins. A) How did the EOR come to the 11,000 LF quantity over underdrain and the 65 EA cleanouts? B) Which structures will the underdrain be connect to?

***Response: The Contractor shall provide underdrain on both sides of the roadway, in accordance with the City of Clearwater details provided on sheet 460. See note on sheet 201.***

11. The rain garden section detail on Sheet 462 indicates a 6" perforated underdrain. Detail 2 /462 appears to show a drain or cleanout in the rain garden. Please clarify what is to be installed.

# MEMO

12. Does the 6" perforated underdrain in the rain garden run the entire length of the rain garden?

**Response: See detail 2 on sheet 462.**

13. Will a pay item be created for the 6" perforated underdrain in the rain garden considered incidental to the cost of the rain garden? Or is it included of the 8" underdrain quantity?

**Response: All elements of the rain garden, exclusive of landscaping, are included in the unit price of the rain garden.**

14. The rain garden plan detail, 1/462, indicates a concrete apron between the pedestrian/bike lane and the rain garden wall. However, the landscaping plans show plantings in these areas. What are we to construct here for the rain gardens?

**Response: This area shall be landscaped per planting plan, detail will be updated to remove concrete call out.**

15. Are the concrete aprons at the rain gardens paid for in the sidewalk or bike path pay items?

**Response: see answer to 14**

16. There are directional drills called out on the plans for the reclaimed water main. There is no pay item in the Reclaimed Water section of the bid form for 4" directional drilling. Will a separate pay item be added for the directionally drilled 4" reclaimed water main? Or are we to include this work in Item 8001?

**Response: The directional drills shall be paid for in the unit price of the main.**

17. There are multiple locations where existing potable water meter boxes are to be replaced and the service reconnected (typically). Will a pay item be added for this work? Will a count of these locations be provided due to the lack of clarity in the plans where these locations are needed?

**Response: The contractor shall perform this work per the specifications and the notes on 601. The quantities provided are Based on the existing connection types and sizes at each building within the corridor.**

18. There is a pay item for sanitary laterals (Item 9008), however the lateral locations are not indicated on the plans. Please provide the locations for the sanitary laterals.

**Response: Sanitary Laterals and cleanouts, shall be provided per the specifications and the notes on 601. The quantities provided are Based on the existing connection sizes at each building located within the**

19. There are multiple gate valves to be installed on the directionally drilled 4" reclaimed water main. Will air release valves be needed at these locations, as well? If so, please add a pay item for this work.

**Response: []**

# MEMO



20. Is all QC testing paid for by the Contractor (concrete, asphalt, compaction, etc.)?

**Response: All testing shall be paid for by the contractor and included in the unit price of the appropriate pay item.**

21. Aside from the Generic Permit for dewatering, what permits will the Contractor be required to obtain?

**Response: The Contractor is responsible for obtaining the NPDES and any dewatering permit that is necessary. The SWFWMD permit and FDEP permit will be provided.**

22. Excluding the Generic Permit for dewatering, will all costs for permits be waived for this project?

**Response: See response to comment 21**

23. The Site Plan section of drawings (sheets SP-01 through SD-02) call for the Contractor to install all electrical conduit, pullboxes, and wiring for the lighting. There are no schematic plans provided for the conduit or pullboxes. There are no details provided, either. Will a complete set of lighting plans be provided?

**Response: The Contractor is only responsible for placing conduit and providing a stub-up. The Duke plans will be providing the length of conduit and it will be included on the bid tabs.**

24. Pay Item 5001, Lighting, has a plan quantity of 139 EA. Typically conduit and wire are paid per LF. Pullboxes are paid per EA. Please revise the bid form to include these pay items for the lighting scope.

**Response: The Lighting qty will be removed from the bid tabs. The Contractor is only responsible for the conduit and coordination with Duke Energy, who will install pullboxes, wiring and lighting. The conduit quantity will be added once we receive the plans from Duke Energy.**

25. Will the Owner or Duke Energy be providing power service to the site lighting?

**Response: Duke Energy will be providing the installation and service.**

26. The Paving Schedule in the Site Plans contains designation "P-5" for the concrete paving detectable warning. There is no detail for what is desired. Please provide additional information.

**Response: We will clarify the plans and add appropriate details, Pay items and qty as necessary.**

27. When "P-5" concrete abuts "P-4" concrete landing, what is the substrate concrete material under the detectable warnings material? For example, at the intersection of Missouri and Cleveland St. the "P-5" paving between the new curb and "P-4" paving appears to be plain concrete ("P-1") with detectable warnings. However, at other intersections, see Fredrica Ave., the "P-4" concrete abuts to the back of the curb and the detectable warnings would appear to be installed on the "P-4" concrete. Again, please clarify what is to be constructed.

# MEMO

**Response: The adjacent concrete will be continued, and detectable warning strips will be placed on top. The plans, and bid tabs will be updated to reflect this.**

28. The Paving Schedule in the Site Plans contains designation “P-4” for the concrete paving, landings. There is no detail for what is desired. Please provide additional information.

**Response: We will clarify the plans and add appropriate details, Pay items and qty**

29. For Paving Schedule “P-4”, standard concrete with exposed aggregate is to be installed, along with overseeding with granite stones. Does this mean the ready mix concrete will have granite as an aggregate or will the granite be added to standard concrete while still in its plastic state?

**Response: on SP sheet, for P-4, the overseed w/ salt & pepper granite (3/8" minus) IS the exposed granite aggregate. Its standard concrete with the granite broadcast to the surface of the concrete in its plastic state.**

30. For “P-4” concrete paving, what is the spread rate for the salt and pepper granite (3/4”) to achieve “heavy application”?

**Response: The Contractor shall select and provide sample of aggregate for approval. Once aggregate is approved, the Contractor shall provide 5'x5'x4" thick sample panel of concrete with the aggregate applied, for approval. The heavy application is 60% of the surface area.**

31. The Paving Schedule in the Site Plans contains designation “V-1” and “V-2” for the vehicular paving at Festival Core. There are no details for what is desired. Please provide additional information.

**Response: For bidding purposes, V-1 and V-2 pavement shall be 8" Plain Cement Concrete (PCC) on 4" Type B-12.5 base and 12" of stabilized subgrade. A pay items, including joint sealing, will also be added to the bid tabs. A typical section, details and joint layout plan will be provided with the IFC plan set, after contractor selection. (see FDOT standard plans 350-001 for more information).**

32. For “V-1” vehicular paving, what is the spread rate for the salt and pepper granite (3/8”) to achieve “light application”?

**Response: The Contractor shall select and provide sample of aggregate for approval. Once aggregate is approved, the Contractor shall provide 5'x5'x4" thick sample panel of concrete with the aggregate applied, for approval. The heavy application is 25% of the surface area.**

33. For “V-2” vehicular paving, what is the spread rate for the salt and pepper granite (3/8”) to achieve “heavy application”?

**Response: The Contractor shall select and provide sample of aggregate for approval. Once aggregate is approved, the Contractor shall provide 5'x5'x4" thick sample panel of concrete with the aggregate applied, for approval. The heavy application is 60% of the surface area.**

34. The Site Plans have a detail for removable bollards. Pay Item 4004 indicates 78 EA bollards to be installed. Are all bollards to be removable?

# MEMO

**Response: Bollards will be non-removal, (with the exclusion of one located in the festival core). A detail will be added.**

35. The Roadway plans call for all driveways to be 6" thick reinforced (typically). Does "reinforced" refer to fibermesh? Or is another form of reinforcement required?

**Response: The Driveways are to be 6" thick and include fibermesh in accordance with the specifications.**

36. The Roadway plans call for all driveways to be 6" thick reinforced (typically). Detail A/354 indicates the driveway apron to be 8" thick, along with 4" thick bike trail and 4" thick sidewalk. Please clarify what thickness and finishes are used through the driveways.

**Response: The driveways are to be 6" thick. Detail will be corrected.**

37. There is no thickness provided in the descriptions for Pay Items 2011, 2012, and 2013. Please revise the descriptions to include the associated thicknesses required.

**Response: The Pay Items will be updated.**

38. There is not pay item for detectable warning mats at the curb ramps. Will a pay item be provided?

**Response: A Pay item will be added**

39. There are multiple concrete sidewalk/bike path/vehicular pathway designations on the Site Plans with varying thicknesses and finishes. Can the bid form be modified to capture these different elements along with the associated quantities and unit prices to better account for these costs?

**Response: Yes, the pay items will be expanded.**

40. There are two lump sum pay items (4023 and 10011) for irrigation. Is this a double up? If not, please delineate so we can differentiate where to put the costs.

**Response: The Festival Core and the Streetscape projects are "goes with" projects. Qty are separate**

41. There are curbside bus stops within the project where the site furnishings are to be installed. Is the concrete pad at the bus stops 4" thick? Is this work reflected in the quantities for Pay Item 2011? Or will a separate pay item be used?

**Response: The bus stop is 4 inches thick and included in the qty for concrete sidewalk.**

42. Detail 4/354 indicates root barrier. What are the limits where this detail applies? Will a pay item be added for root barrier?

**Response: Root barriers shall be provided for all Canopy trees (Oak), per details on SD-01 (20' centered on the tree front and back). A Pay item and qty will be added.**

43. What is the engineer's estimate, or budget, for this project?

**Response: We are unable to supply the engineers estimate per the Florida statute 337.168 (1).**

# MEMO

44. Will a utility relocation schedule to be provided for the utilities shown on the utility adjustments sheets?

***Response: The Contractor is responsible for performing and coordinating the Water/Sewer/reclaimed efforts and for coordinating with Duke Energy for their effort in relocating poles and providing proposed lighting.***

45. Detail 1/SD-02 is for tree grates. None are shown and there is no pay item for tree grates. Please confirm there are no tree grates on the project.

***Response: See sheet SP-07. And pay item will be provided.***

46. Due to the current disposition of the drawings, can the date for questions be extended at least one week?

***Response: No***

47. Please confirm all work associated with the green living wall is by Owner, i.e. water connection, connection to structure, drainage, etc.

***Response: Confirmed***

48. The utility plans indicate tapping sleeves and valves for the water main. The bid form only includes only line stops. Please add pay items for tapping sleeves and valves.

***Response: tapping sleeves and valves have been included in the unit price of other pay items. See specifications for more information.***

49. The utility plans indicate tapping sleeves and valves for the reclaimed water main. There no bid items on the bid form. Please add pay items for tapping sleeves and valves.

***Response: tapping sleeves and valves have been included in the unit price of other pay items. See specifications for more information.***

50. General Note # 4 on Sheet 600 – Will there be a unit price pay item for replacing “Universal Pipe” or will this be on a Time & Material Basis? Quantity is unknown.

***Response: Universal pipe is not expected, however, in the few instances were existing pipe is to remain, If encountered replacement shall be covered by the contingency built into the contract.***

51. General Note # 4 on Sheet 600 – Will there be a unit price pay item for replacing “Universal Pipe” or will this be on a Time & Material Basis? Quantity is unknown.

***Response: Universal pipe is not expected, however, in the few instances were existing pipe is to remain, If encountered replacement shall be covered by the contingency built into the contract.***

52. General Note # 26 on Sheet 600 – Will there be a unit price pay item for replacing lead goose necks? Quantity is unknown.

# MEMO



***Response: Lead goose necks are not expected, however, in the few instances were existing pipe is to remain, If encountered replacement shall be covered by the contingency built into the contract.***

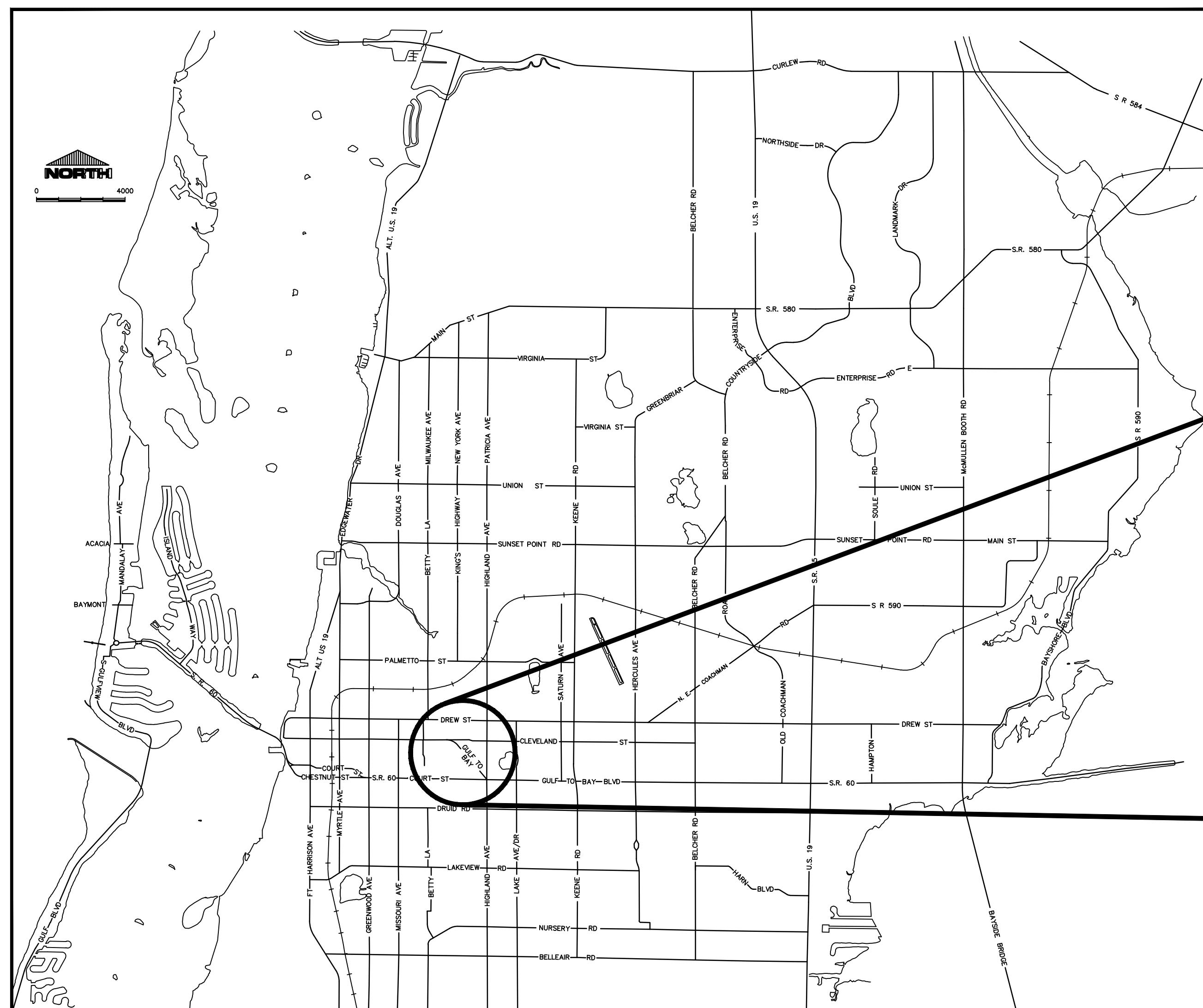
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### ROADWAY AND UTILITY PLANS

SHEET #	SHEET DESCRIPTION
000	COVER SHEET
001	GENERAL NOTES
002	KEY MAP
101-110	DEMOLITION PLANS
201-202	TYPICAL SECTIONS
301-310	ROADWAY PLAN & PROFILE
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330-340	INTERSECTION PLANS
350-354	ROADWAY DETAILS
360	FESTIVAL CORE SITE PLAN
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### LANDSCAPE PLANS

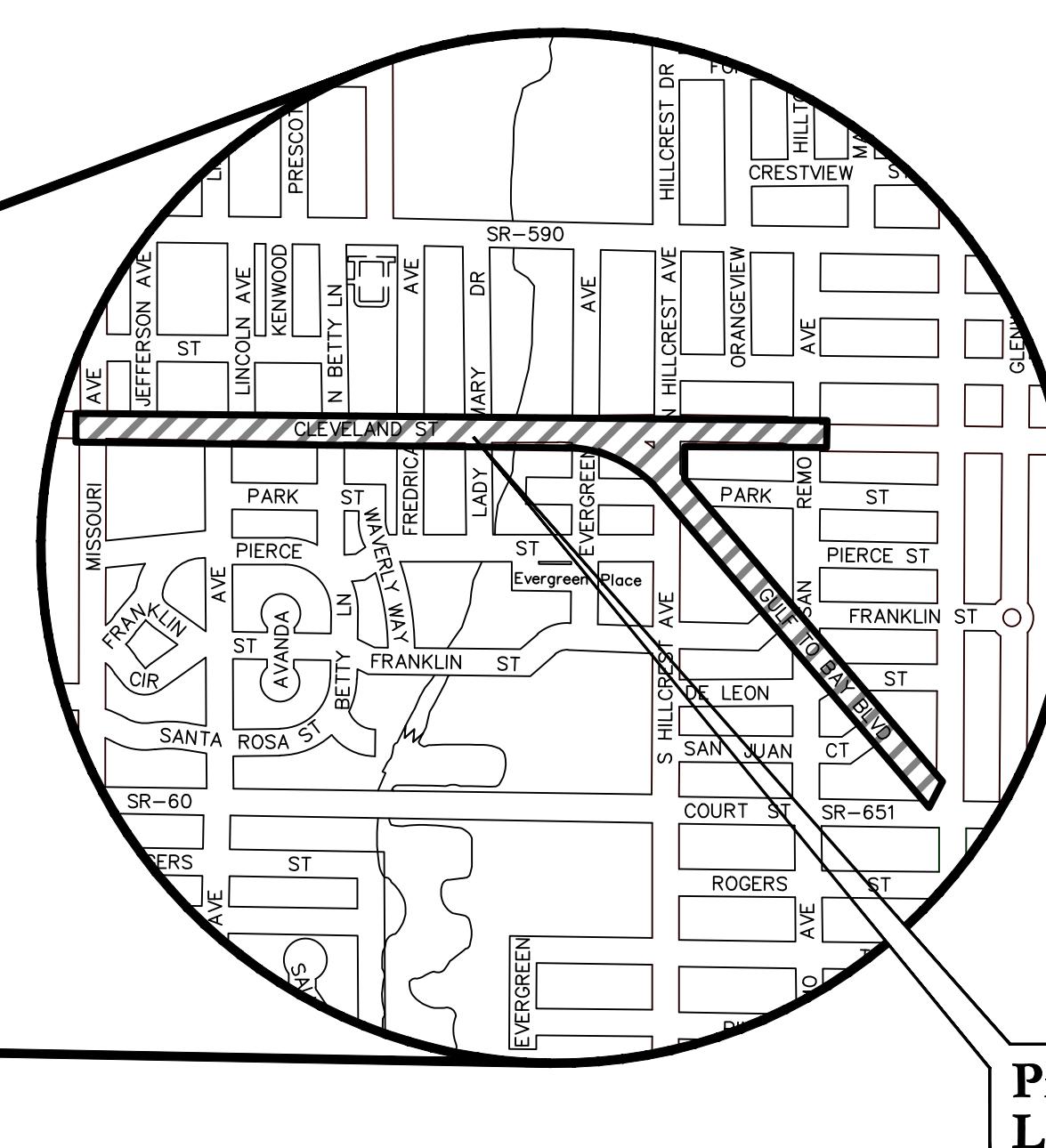
SP-01 TO SP-10	SITE PLAN
SD-01 TO SD-02	SITE DETAILS
LA-01 TO LA-11	LANDSCAPE PLAN
IR-01 TO IR-12	IRRIGATION PLAN



**CLEARWATER**  
BRIGHT AND BEAUTIFUL • BAY TO BEACH



## CLEVELAND STREET PHASE III AND FESTIVAL CORE



### CITY OFFICIALS

Frank Hibbard	Mayor
Mark Bunker	Councilmember
Kathleen Beckman	Councilmember
David Allbritton	Councilmember
Hoyt Hamilton	Councilmember
William B. Horne II	City Manager

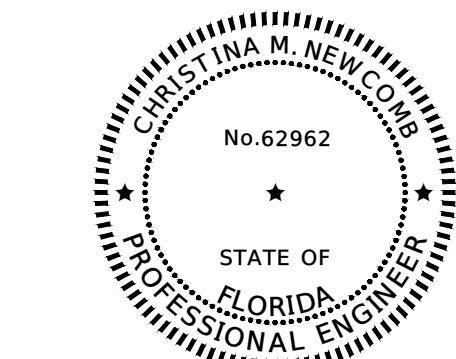
Tara L. Kivett, P.E.  
City Engineer

Approved For  
Construction

CITY ENGINEER Tara L. Kivett, P.E. #8661

Date Approved

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C, BY:



ON THE DATE ADJACENT TO THE SEAL

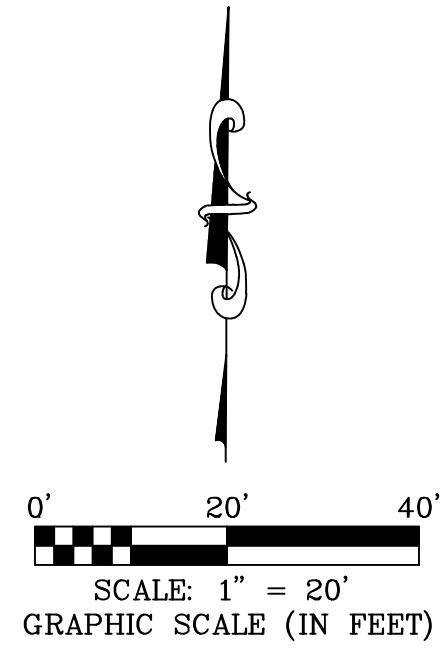
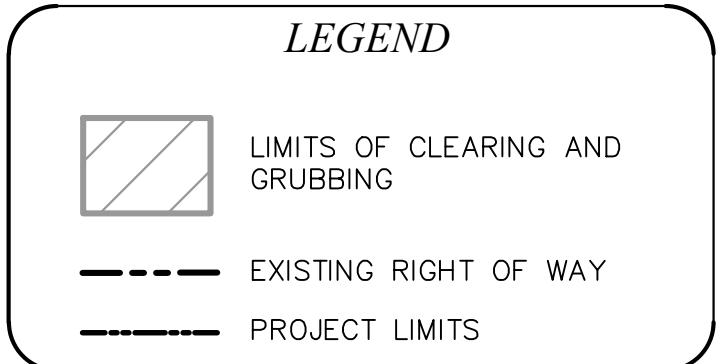
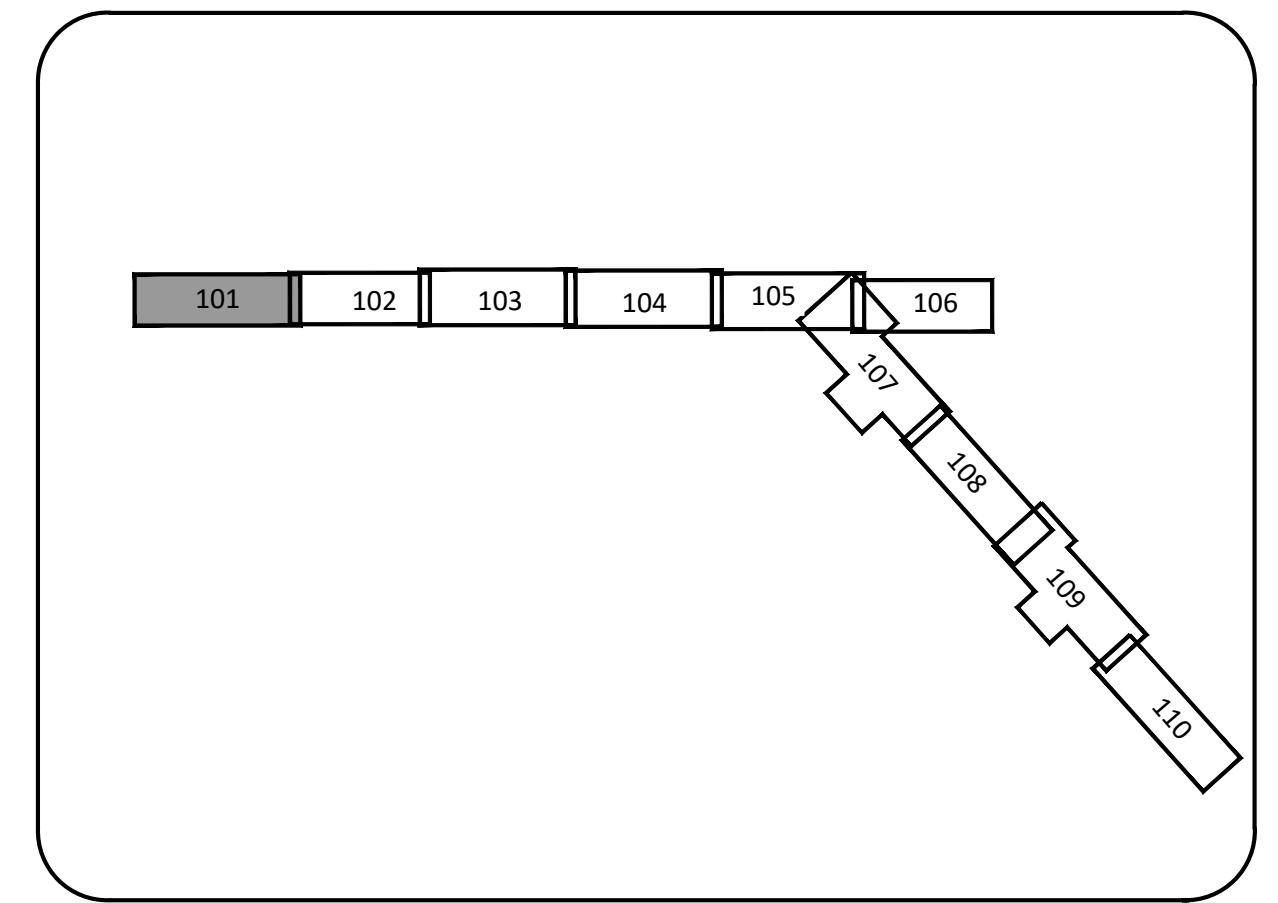
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GAI CONSULTANTS, INC.  
3820 NORTHDALE BLVD., STE 102B  
TAMPA, FL 33624  
CERTIFICATE OF AUTORIZATION 9951  
CHRISTINA M. NEWCOMB, P.E. NO 62962

**100% PLANS  
BID SET**

City Project No. 16-0003-EN  
City Plan Set No. 2016017

Key Map  
(N.T.S.)



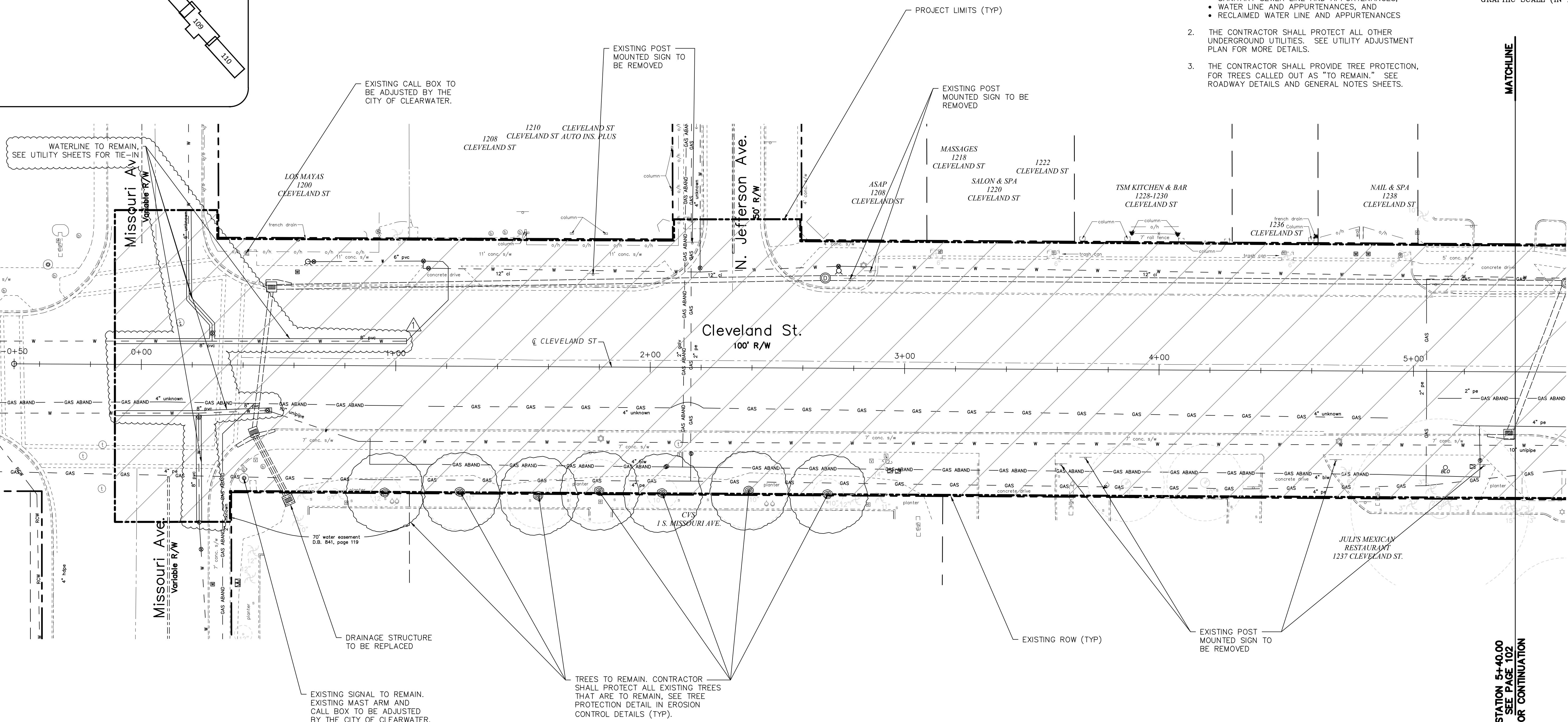
NOTES:  
1. WITHIN THE LIMITS OF CLEARING AND GRUBBING, UNLESS OTHERWISE NOTED ON THE PLANS, DEMOLISH THE FOLLOWING:

- ALL EXISTING SURFACE FEATURES,
- DRAINAGE STRUCTURES AND ASSOCIATED PIPES,
- SANITARY SEWER LINE AND APPURTENANCES,
- WATER LINE AND APPURTENANCES, AND
- RECLAIMED WATER LINE AND APPURTENANCES

2. THE CONTRACTOR SHALL PROTECT ALL OTHER UNDERGROUND UTILITIES. SEE UTILITY ADJUSTMENT PLAN FOR MORE DETAILS.

3. THE CONTRACTOR SHALL PROVIDE TREE PROTECTION, FOR TREES CALLED OUT AS "TO REMAIN." SEE ROADWAY DETAILS AND GENERAL NOTES SHEETS.

MATCHLINE



STATION 5+4000  
SEE PAGE 102  
FOR CONTINUATION

100% PLANS  
BID SET

RESPONSES TO CONTRACTOR'S BIDDING QUESTIONS	CMN	03/05/2021
REVISION	BY	DATE



**gai consultants**  
3820 Northdale Boulevard, Suite 1028  
Tampa, FL 33624  
Certificate of Authorization 9951  
EOR: Christina M. Newcomb, P.E.  
P.E. License Number: 62962

CITY OF CLEARWATER, FLORIDA  
ENGINEERING DEPARTMENT  
100 S. MYRTLE AVE.  
CLEARWATER, FL 33756

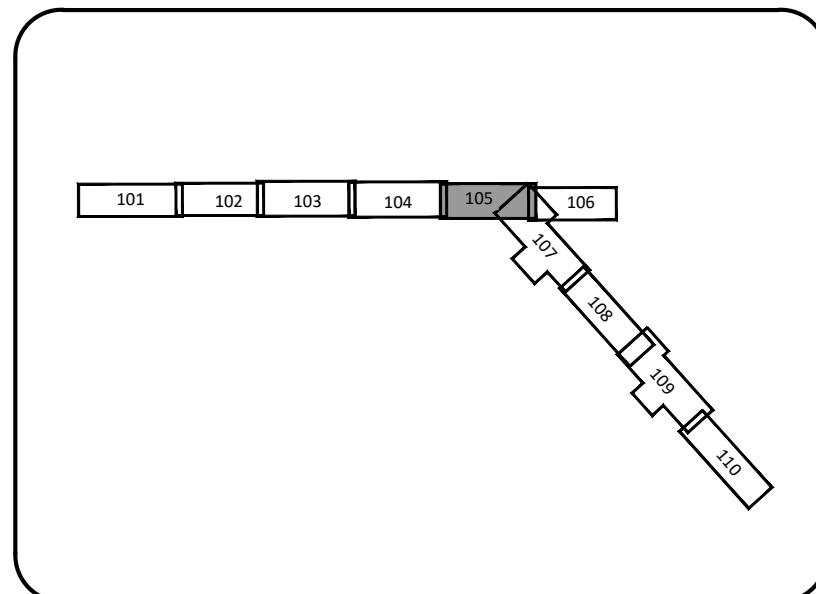


CLEVELAND STREET PHASE III  
AND FESTIVAL CORE  
DEMOLITION PLAN

DWG NAME	FIELD BOOK:	SURVEYED BY:	SCALE:
A181093.02			N/A
CONTRACT NO.	DATE DRAWN:	DRAWN BY:	HORIZ. 1' = 20'
16-0003-EN	02-01-2020	CMN	
JOB NO.	DESIGNED BY:	CHECKED BY:	Sheet No.: 101
A181093.02	CMN	RF	
APPROVED FOR CONSTRUCTION			DATE



Key Map  
(N.T.S.)



LEGEND

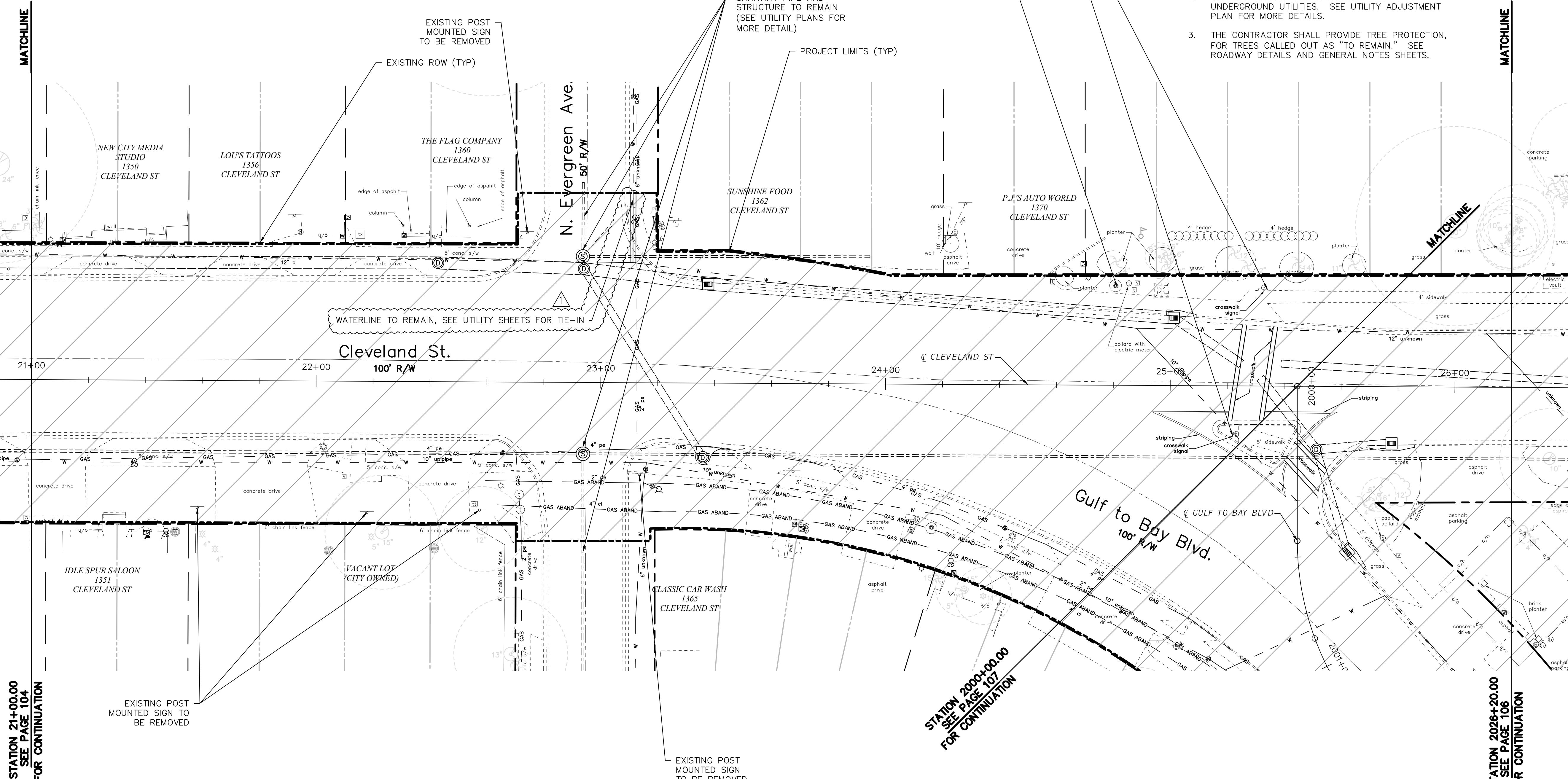
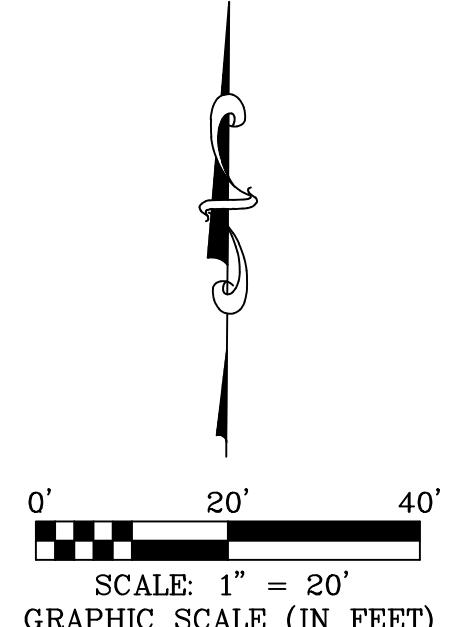
	LIMITS OF CLEARING AND GRUBBING
	EXISTING RIGHT OF WAY
	PROJECT LIMITS

NOTES:  
1. WITHIN THE LIMITS OF CLEARING AND GRUBBING, UNLESS OTHERWISE NOTED ON THE PLANS, DEMOLISH THE FOLLOWING:

- ALL EXISTING SURFACE FEATURES,
- DRAINAGE STRUCTURES AND ASSOCIATED PIPES,
- SANITARY SEWER LINE AND APPURTENANCES,
- WATER LINE AND APPURTENANCES, AND
- RECLAIMED WATER LINE AND APPURTENANCES

2. THE CONTRACTOR SHALL PROTECT ALL OTHER UNDERGROUND UTILITIES. SEE UTILITY ADJUSTMENT PLAN FOR MORE DETAILS.

3. THE CONTRACTOR SHALL PROVIDE TREE PROTECTION, FOR TREES CALLED OUT AS "TO REMAIN." SEE ROADWAY DETAILS AND GENERAL NOTES SHEETS.



100% PLANS  
BID SET

RESPONSES TO CONTRACTOR'S BIDDING QUESTIONS	CMN	03/05/2021
REVISION	BY	DATE



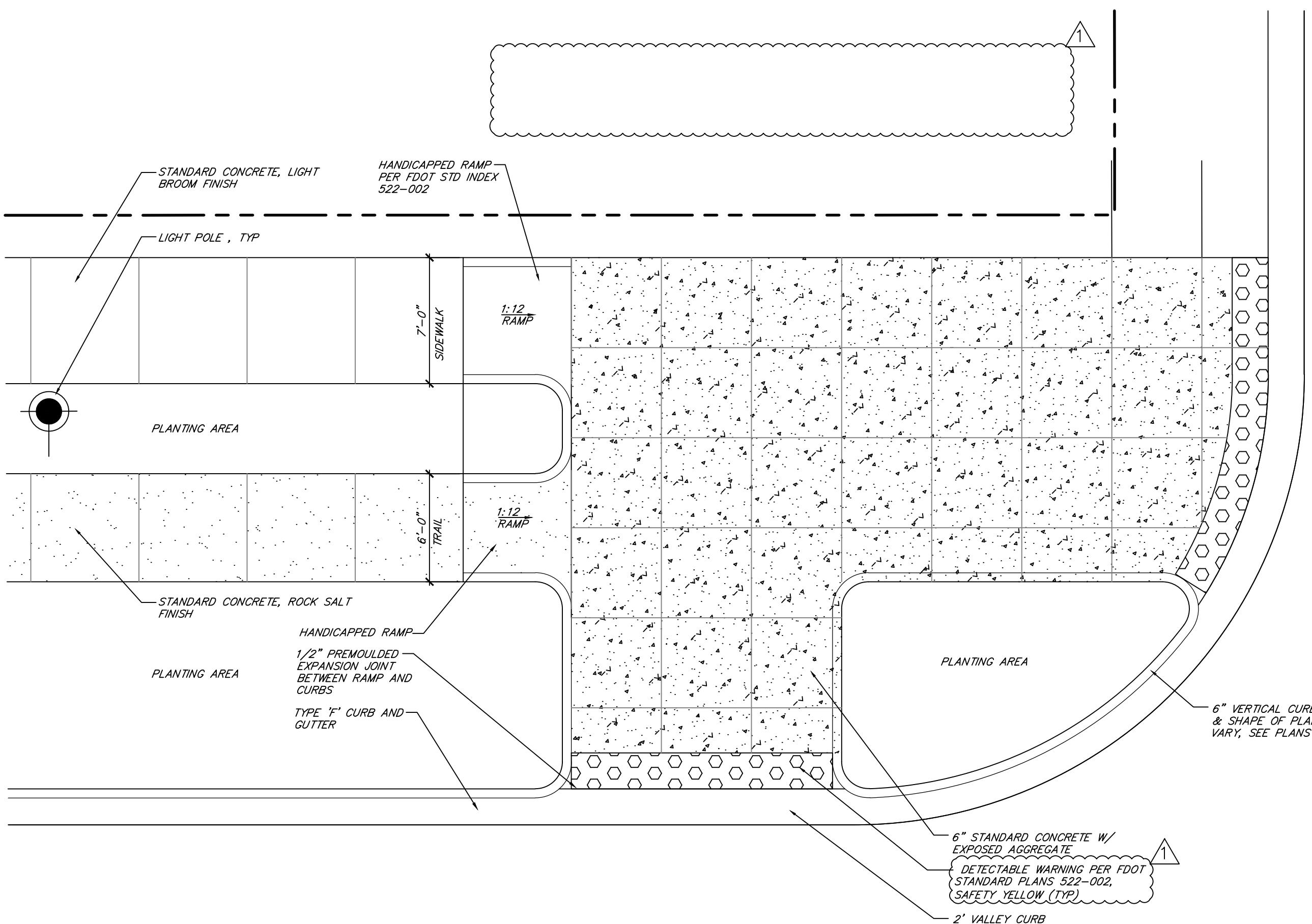
gai consultants  
3820 Northdale Boulevard, Suite 1028  
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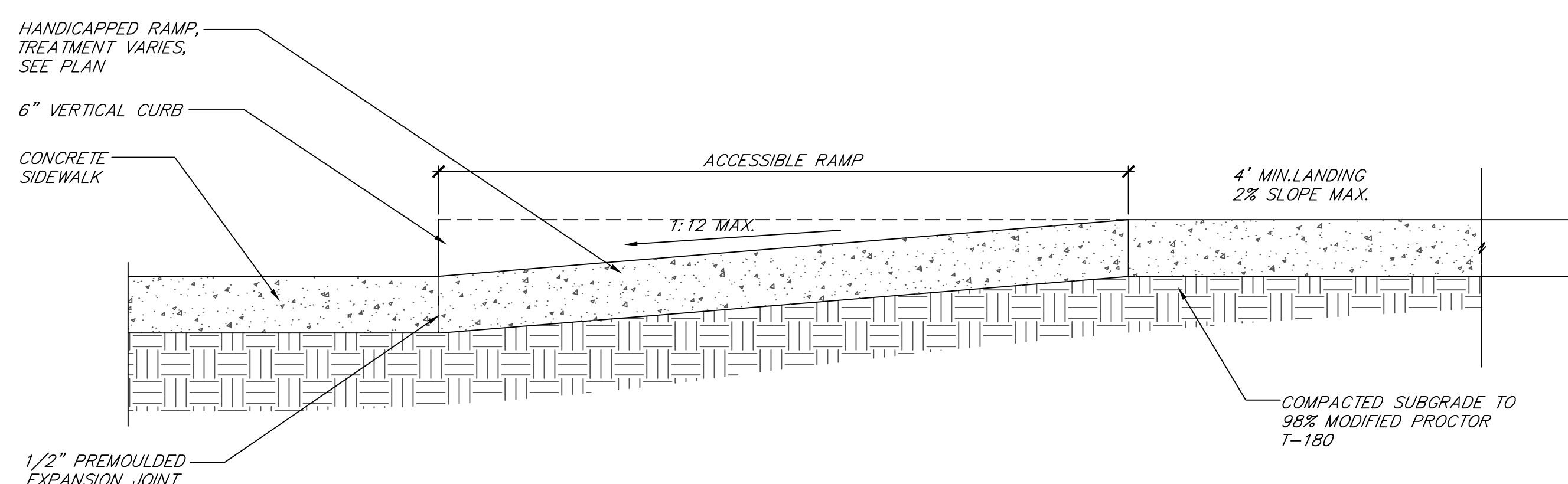
CLEVELAND STREET PHASE III  
AND FESTIVAL CORE  
DEMOLITION PLAN

DWG NAME	FIELD BOOK:	SURVEYED BY:	SCALE:
A181093.02			VERT. N/A
CONTRACT NO.	DATE DRAWN:		
16-0003-EN	02-01-2020	DRAWN BY:	
JOB NO.	DESIGNED BY:	CMN	HOPE. 1" = 20'
A181093.02	CHECKED BY:	RF	SHEET NO.: 105
	APPROVED FOR CONSTRUCTION		
			DATE



1 CORNER TREATMENT AT GRADE  
353 SCALE: 1/4"=1'-0"

FILE NAME: xr-corner treatment at grade



2 HANDICAP RAMP SECTION  
353 SCALE: 1"=1'-0"

FILE NAME: xr-handramp-sec

100% PLANS  
BID SET

RESPONSES TO CONTRACTOR'S BIDDING QUESTIONS	CMN	03/05/2021
REVISION	BY	DATE



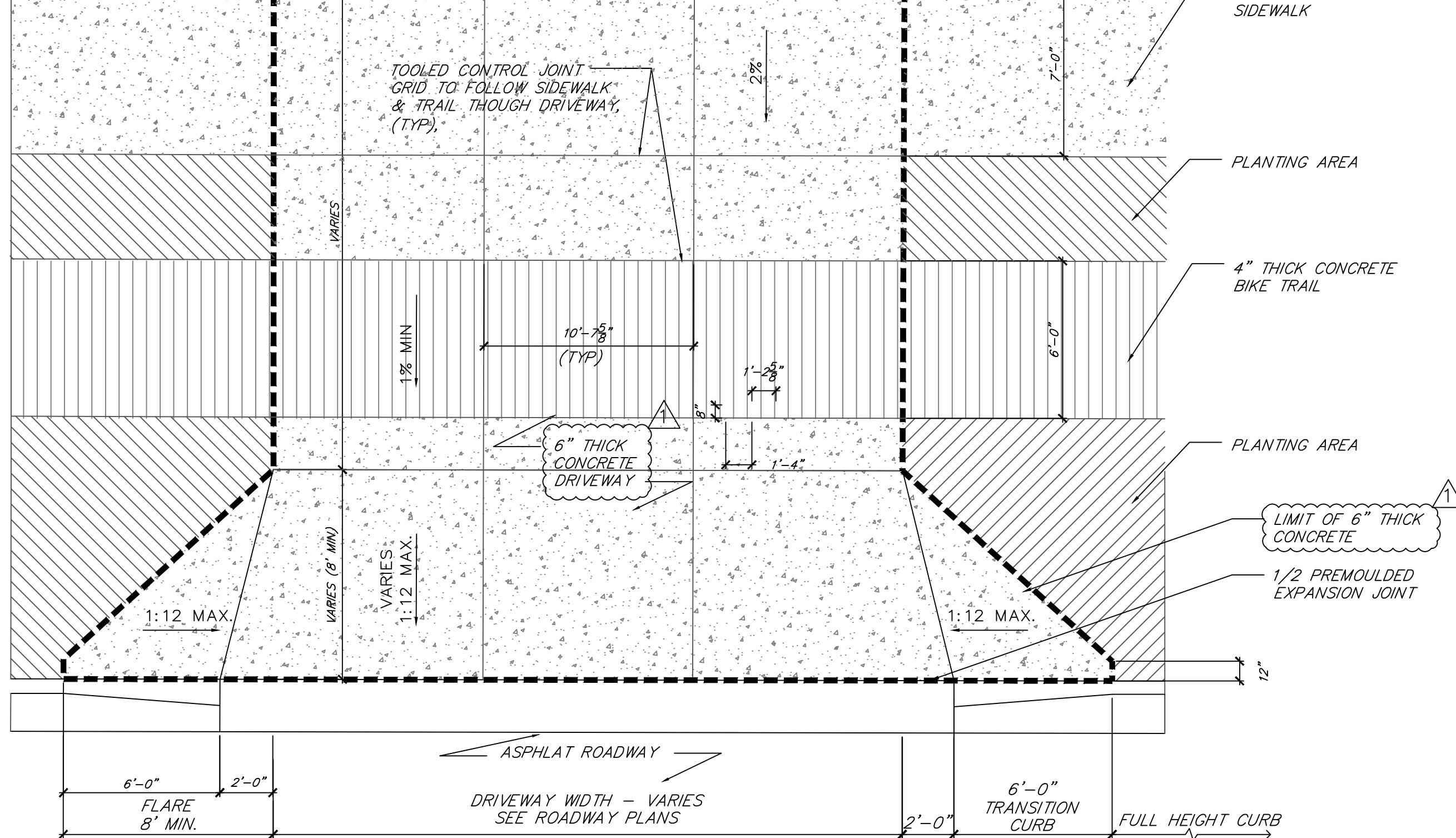
**gai consultants**  
3820 Northdale Boulevard, Suite 102B  
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Certificate of Authorization 9951  
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P.E. License Number: 62962

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CLEVELAND STREET PHASE III  
AND FESTIVAL CORE  
ROADWAY DETAILS

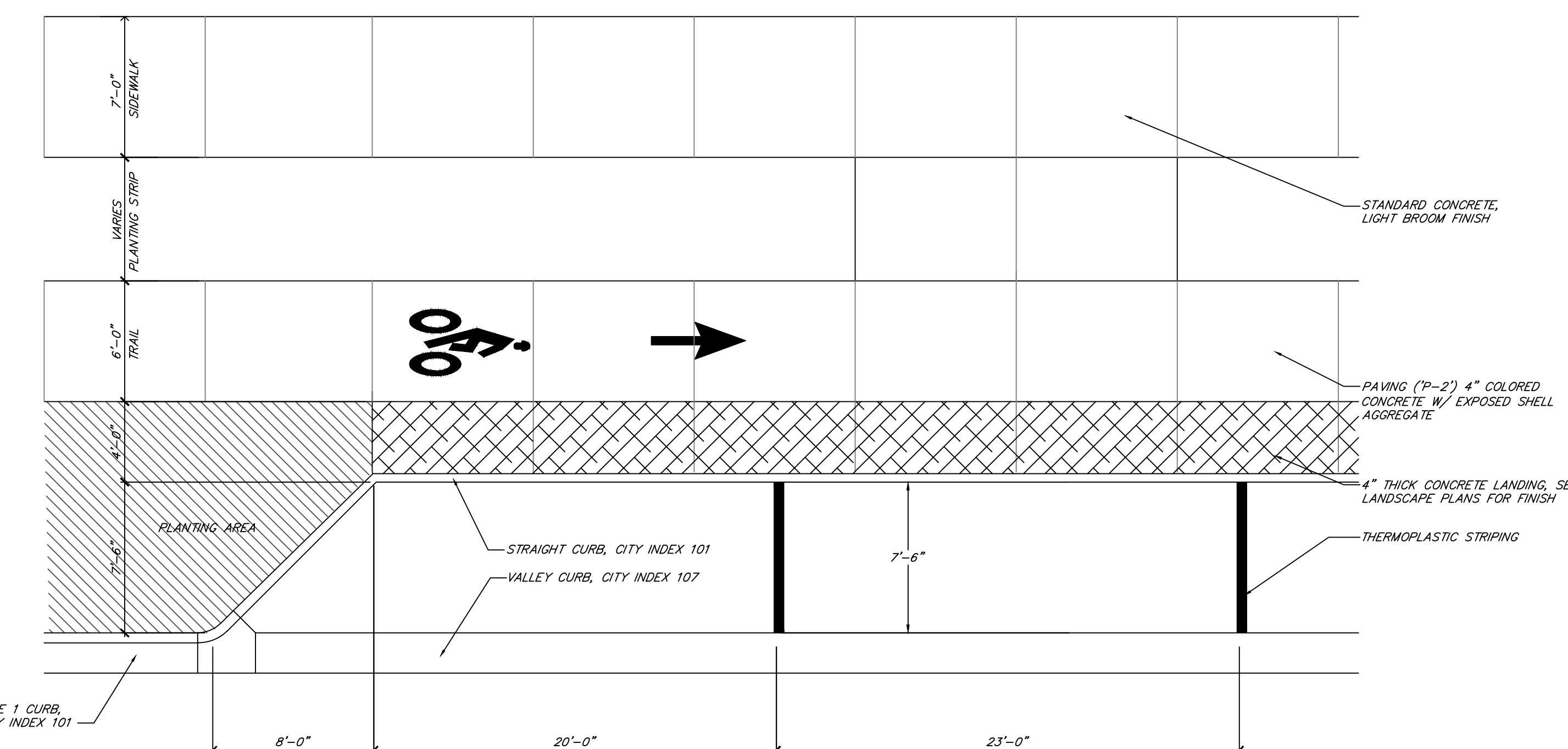
DWG NAME	FIELD BOOK:	SURVEYED BY:	SCALE:
A181093.02			VERT. N/A
CONTRACT NO:			HORIZ. 1" = 20'
16-0003-EN	DATE DRAWN:	DRAWN BY:	
	04-08-19	CMN	
JOB NO:	DESIGNED BY:	CHECKED BY:	
A181093.02	CMN	RF	
APPROVED FOR CONSTRUCTION			
			DATE



**A** TYPICAL CURB CUT & DRIVEWAY - PLAN  
353

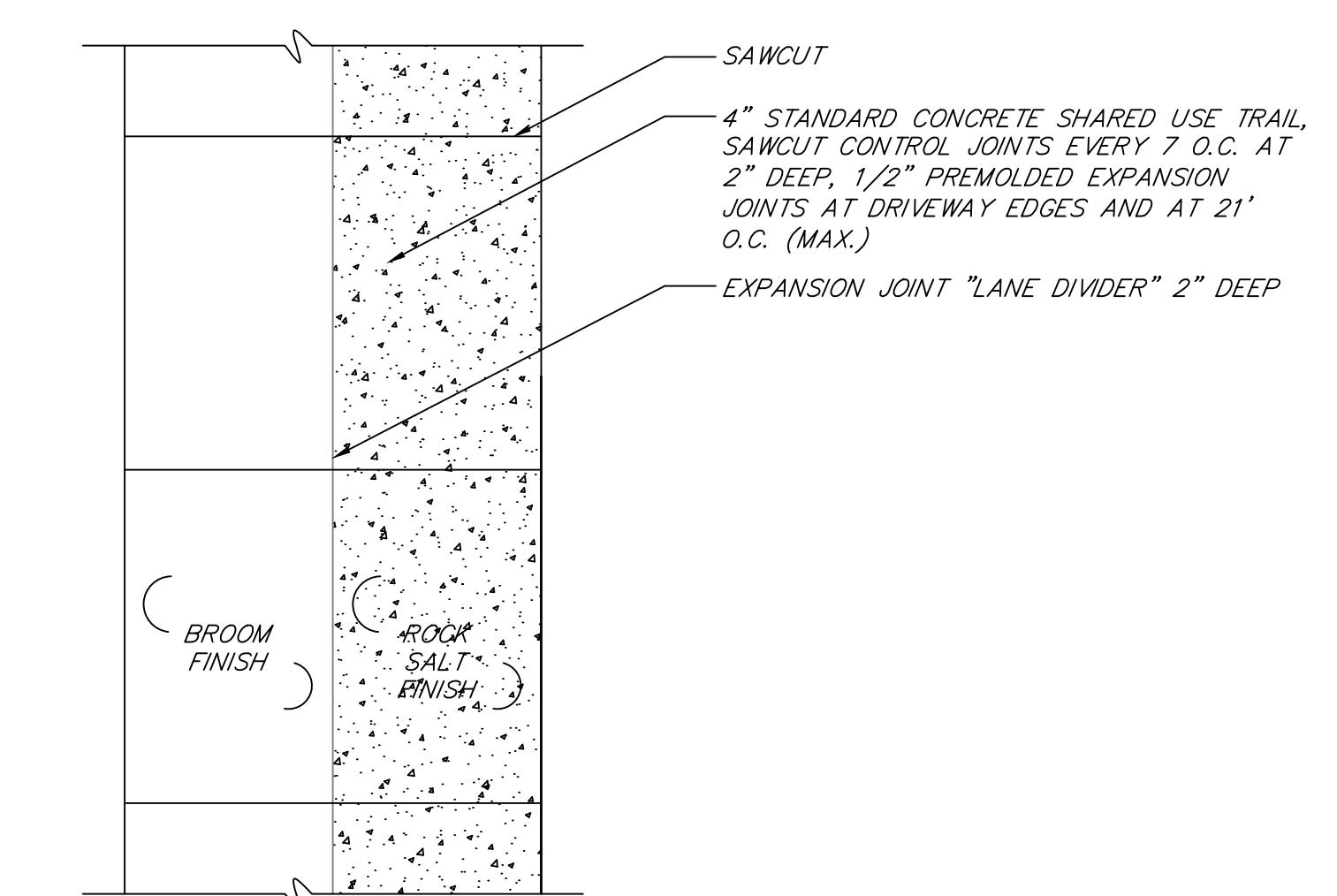
SCALE: 1/4" = 1'-0"

FILE NAME: xr-pave opn plan



**2** PARALLEL PARKING TREATMENT  
354

SCALE: 1/4"=1'-0"



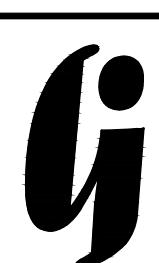
**3** TYPICAL SHARED-USE PAVING PATTERN  
354

SCALE: 1/4"=1'-0"

FILE NAME: xr-pave share-use pattern

100% PLANS  
BID SET

RESPONSES TO CONTRACTOR'S BIDDING QUESTIONS	CMN	03/05/2021
REVISION	BY	DATE



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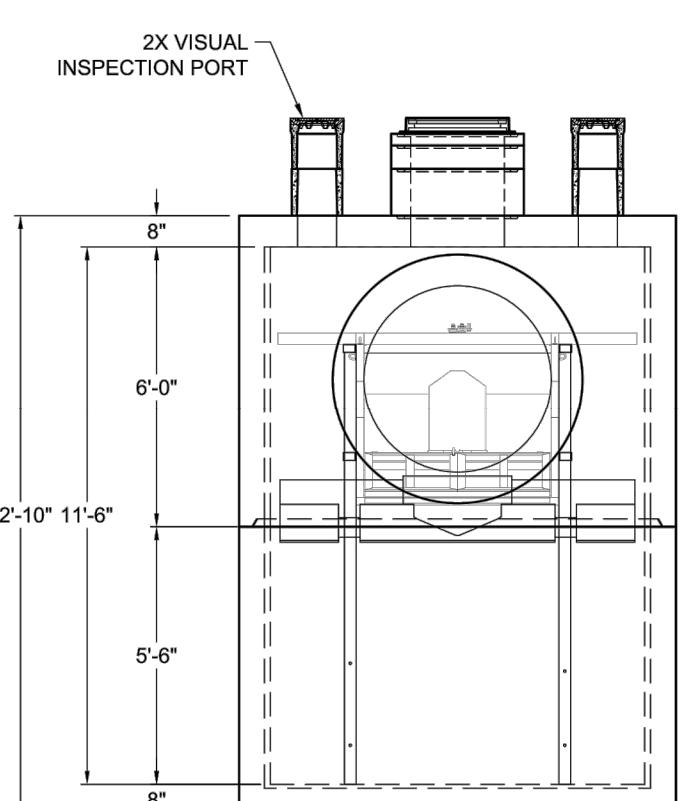


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FLORIDA  
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BEFORE YOU EXCAVATE

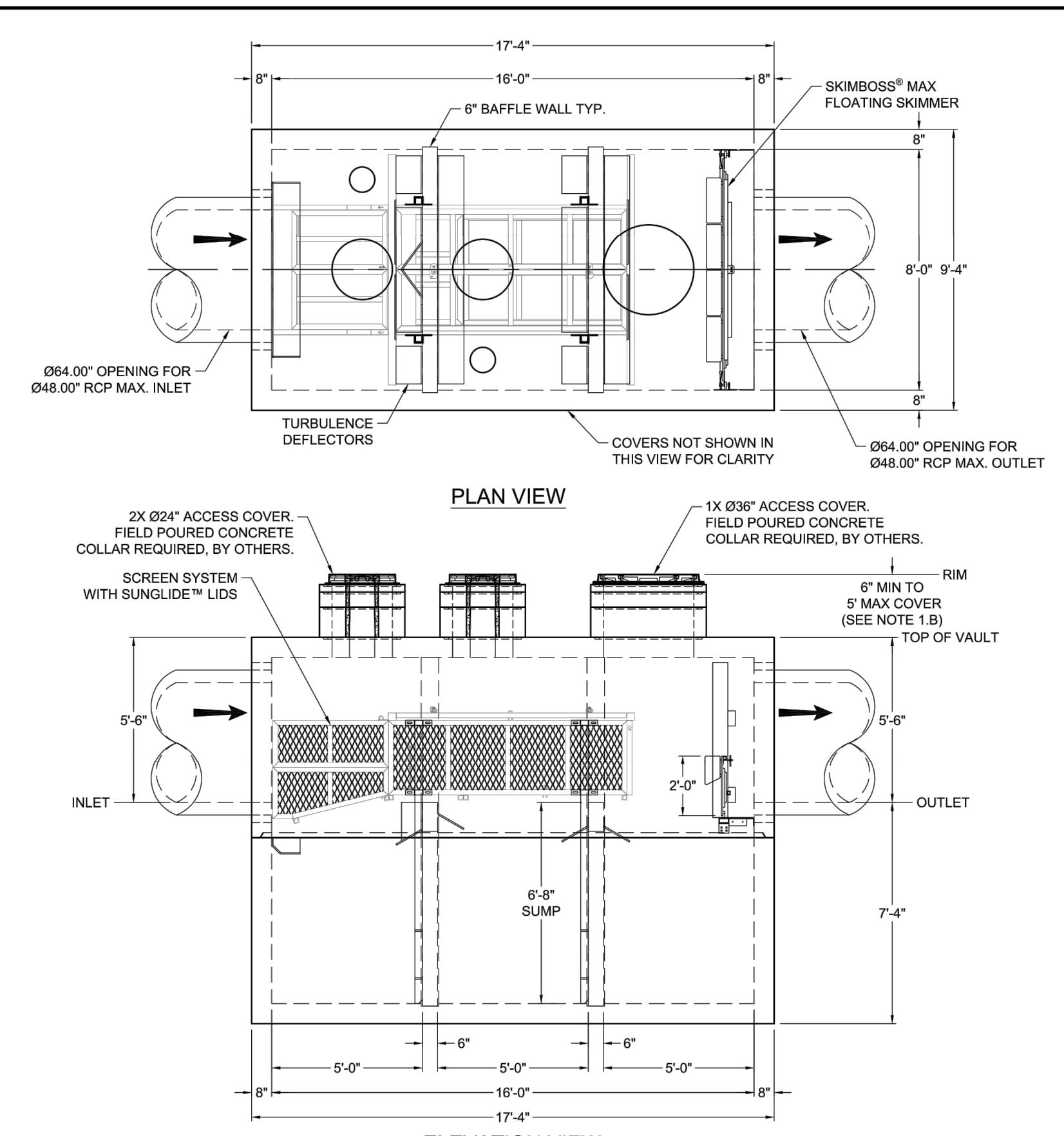
CLEVELAND STREET PHASE III  
AND FESTIVAL CORE  
ROADWAY DETAILS

DWG NAME:	FIELD BOOK:	SURVEYED BY:	SCALE:
A181093.02			N/A
CONTRACT NO.:	DATE DRAWN:	DRAWN BY:	
16-0003-EN	04-08-19	CMN	
JOB NO.:	DESIGNED BY:	CHECKED BY:	HOPIZ. 1" = 20'
A181093.02	CMN	RF	
APPROVED FOR CONSTRUCTION			SHEET NO.: 354
			DATE

SITE SPECIFIC DATA			
Structure ID			West Box
Water Quality Flow Rate (cfs)			40
Peak Flow Rate (cfs)			PFR
Rim Elevation			17.81"
Pipe Data	Pipe Size	Pipe Type	Invert Elevation
Inlet	42"	RCP	10.86"
Outlet	42"	RCP	10.86"
Notes:			
PERFORMANCE SPECIFICATIONS			
Screen System Storage Volume			124.63 cf
Total Sump Volume			800.00 cf
NJDEP Sediment Storage Volume			122.60 cf
Peak Flow Capacity			102.68 cfs
Treatment Flow Capacities: <sup>*</sup>			
NJDEP 50% Removal, 75 micron			9.96 cfs
80% Removal, 150 micron			26.00 cfs



LEFT END VIEW



1 DS-1-35 BAFFEL BOX DETAIL  
457 NTS

1	REPONSES TO CONTRACTOR'S BIDDING QUESTIONS	CMN	03/05/2021
REVISION		BY	DATE



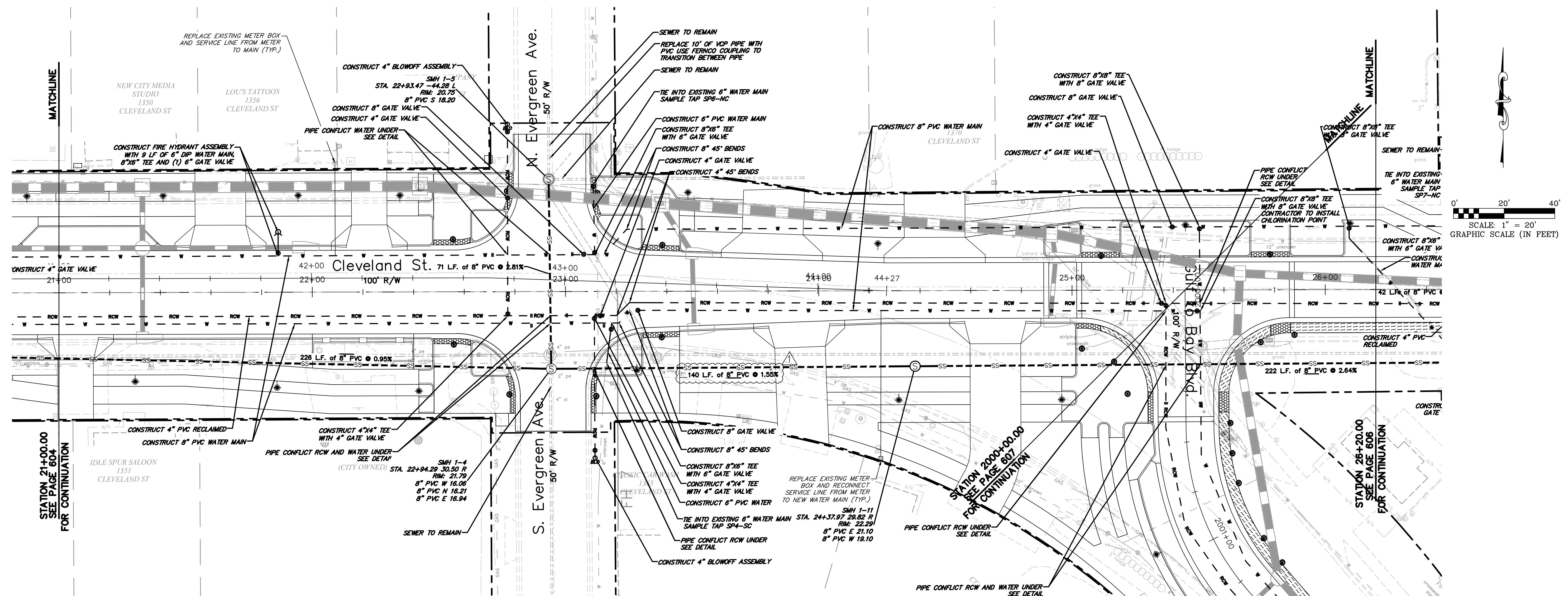
**gai consultants**  
3820 Northdale Boulevard, Suite 102B  
Tampa, FL 33624  
Certificate of Authorization 9951  
EOR: Christina M. Newcomb, P.E.  
P.E. License Number: 62962

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ENGINEERING DEPARTMENT  
100 S. MYRTLE AVE.  
CLEARWATER, FL 33756



# CLEVELAND STREET PHASE III AND FESTIVAL CORE ⚠ DRAINAGE DETAILS

WG NAME: <b>A181093.02</b>	FIELD BOOK:	SURVEYED BY:	SCALE: VERT. <b>N/A</b>
CONTRACT NO.: <b>16-0003-EN</b>	DATE DRAWN: <b>02-01-2020</b>	DRAWN BY: <b>CED</b>	HORIZ. <b>1" = 20'</b>
DB NO.: <b>A181093.02</b>	DESIGNED BY: <b>EAPS</b>	CHECKED BY: <b>RF</b>	SHEET NO.: <b>457</b>
APPROVED FOR CONSTRUCTION			DATE



**100% PLANS  
BID SET**

RESPONSES TO CONTRACTOR'S BIDDING QUESTIONS	CMN	03/05/2021
REVISION	BY	DATE



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Tampa, FL 33624  
Certificate of Authorization 9951  
EOR: Christina M. Newcomb, P.E.  
P.E. License Number: 62962

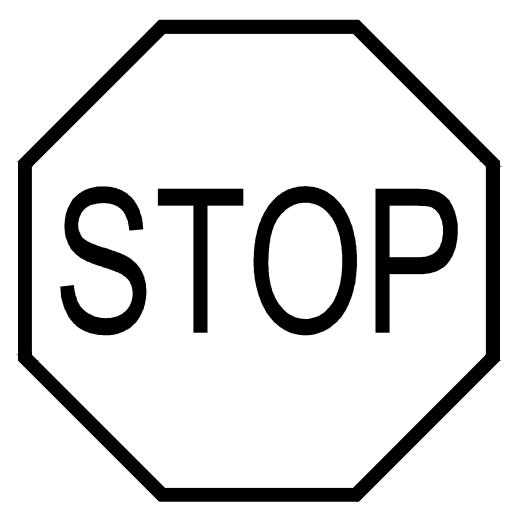
**CITY OF CLEARWATER, FLORIDA**  
ENGINEERING DEPARTMENT  
100 S. MYRTLE AVE.  
CLEARWATER, FL 33756



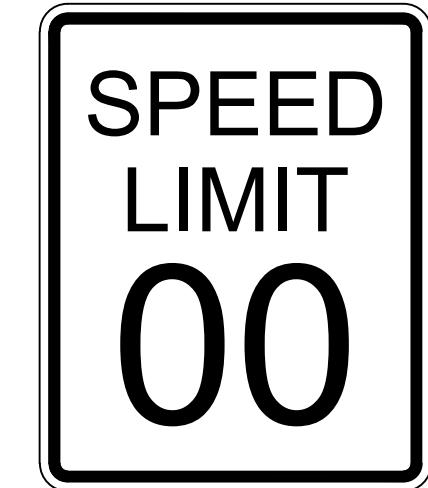
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SUNSHINE STATE  
ONE CALL  
FLORIDA  
[www.call811florida.com](http://www.call811florida.com)  
(800) 432-4770  
MIN. 48 HOURS  
BEFORE YOU EXCAVATE

**CLEVELAND STREET PHASE III  
AND FESTIVAL CORE  
UTILITY PLAN**

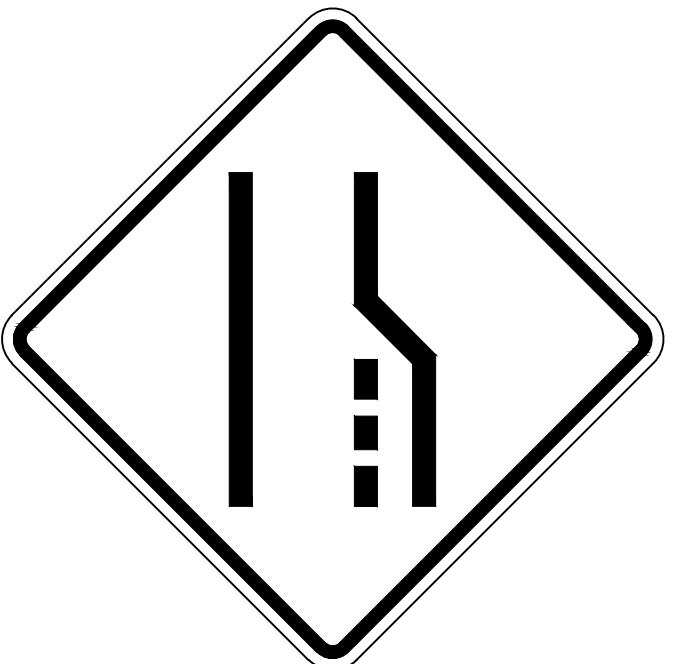
DWG NAME	FIELD BOOK:	SURVEYED BY:	SCALE:
A181093.02	SH	SH	N/A
CONTRACT NO.	DATE DRAWN:		
16-0003-EN	02-01-2020	DOD	HORIZ. 1" = 20'
JOB NO.	DESIGNED BY:	CHECKED BY:	SHEET NO.:
A181093.02	SH	JA	605
APPROVED FOR CONSTRUCTION			DATE



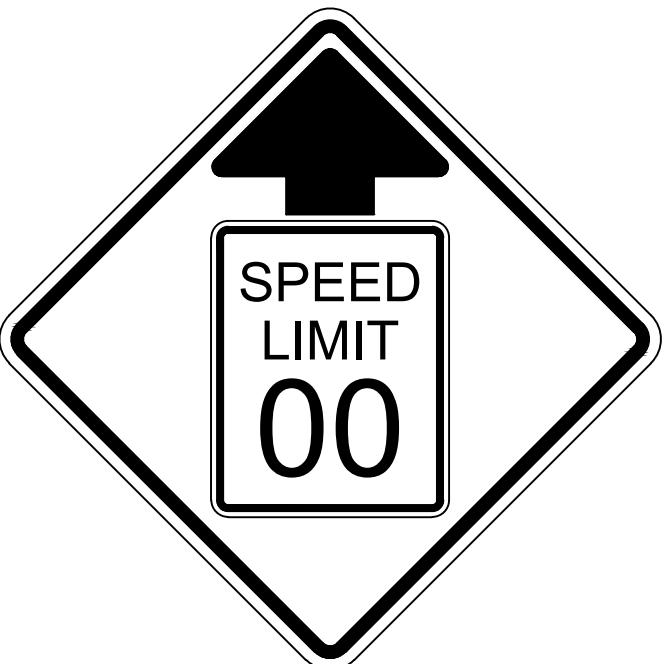
STOP  
R1-1  
36"  
R1-1(B)  
18"



SPEED  
LIMIT  
00  
R2-1  
30"X36"



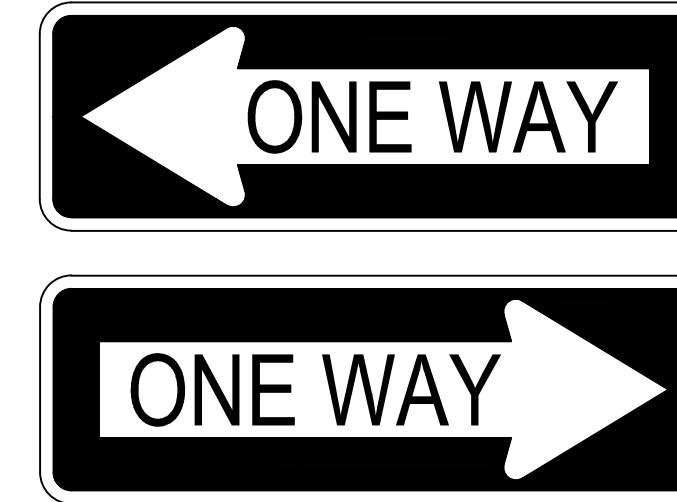
LANE ENDS  
W4-2R  
48"X48"



REDUCE SPEED LIMIT AHEAD  
W3-5  
48"X48"



RIGHT  
LANE  
ENDS  
W9-1R  
48"X48"



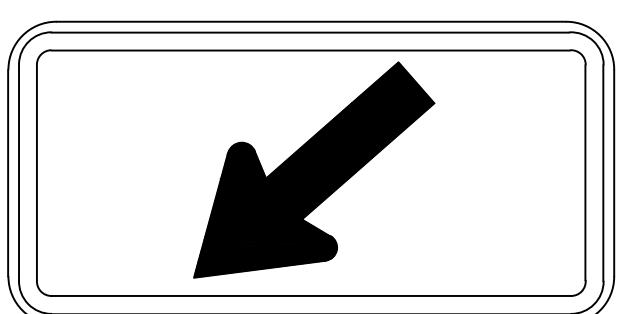
ONE WAY  
R6-1 (L&R)  
36"X12"



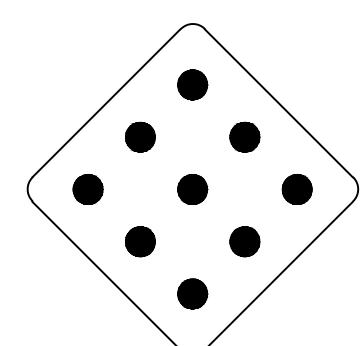
BICYCLE KEEP LEFT  
R9-7L  
18"X12"



BICYCLE KEEP RIGHT  
R9-7R  
18"X12"



DOWNDOWN DIAGONAL ARROW  
W16-7P (L&R)  
24" X 12"



OBJECT MARKER TYPE 1  
OM1-1  
18"X18"



PEDESTRIAN TRAFFIC  
W11-2  
36"X36"



LEFT  
LANE  
ENDS  
W9-1L  
36"X36"

N Jefferson Ave  
00

STREET NAME SIGN  
D3-1  
WITHOUT BORDER  
8"XVAR.  
BLUE RETROREFLECTIVE  
BACKGROUND

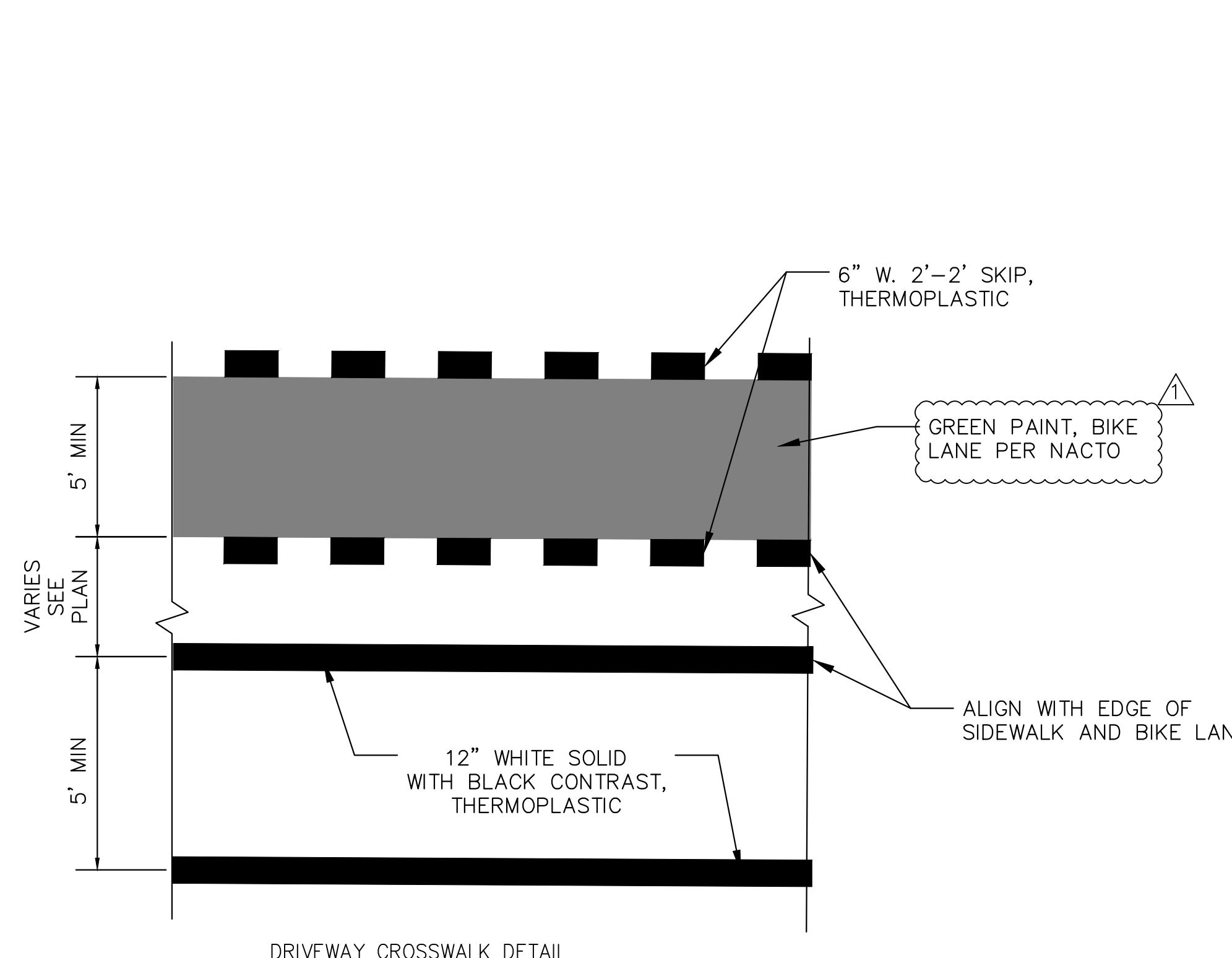
- NOTES:  
 1. PROVIDE STREET NAME SIGNS OF BOTH INTERSECTING ROAD NAMES AT EACH LOCATION NOTED ON PLANS.  
 2. COORDINATE WITH THE CITY OF CLEARWATER FOR INSTALLATION



ALL WAY  
R1-3P  
18"X 6"



ALL WAY  
R1-3P  
18"X 6"



RESPONSES TO CONTRACTOR'S BIDDING QUESTIONS	CMN	03/05/2021
REVISION	BY	DATE



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CLEVELAND STREET PHASE III  
AND FESTIVAL CORE  
TRAFFIC SIGN & PAVEMENT MARKING DETAILS

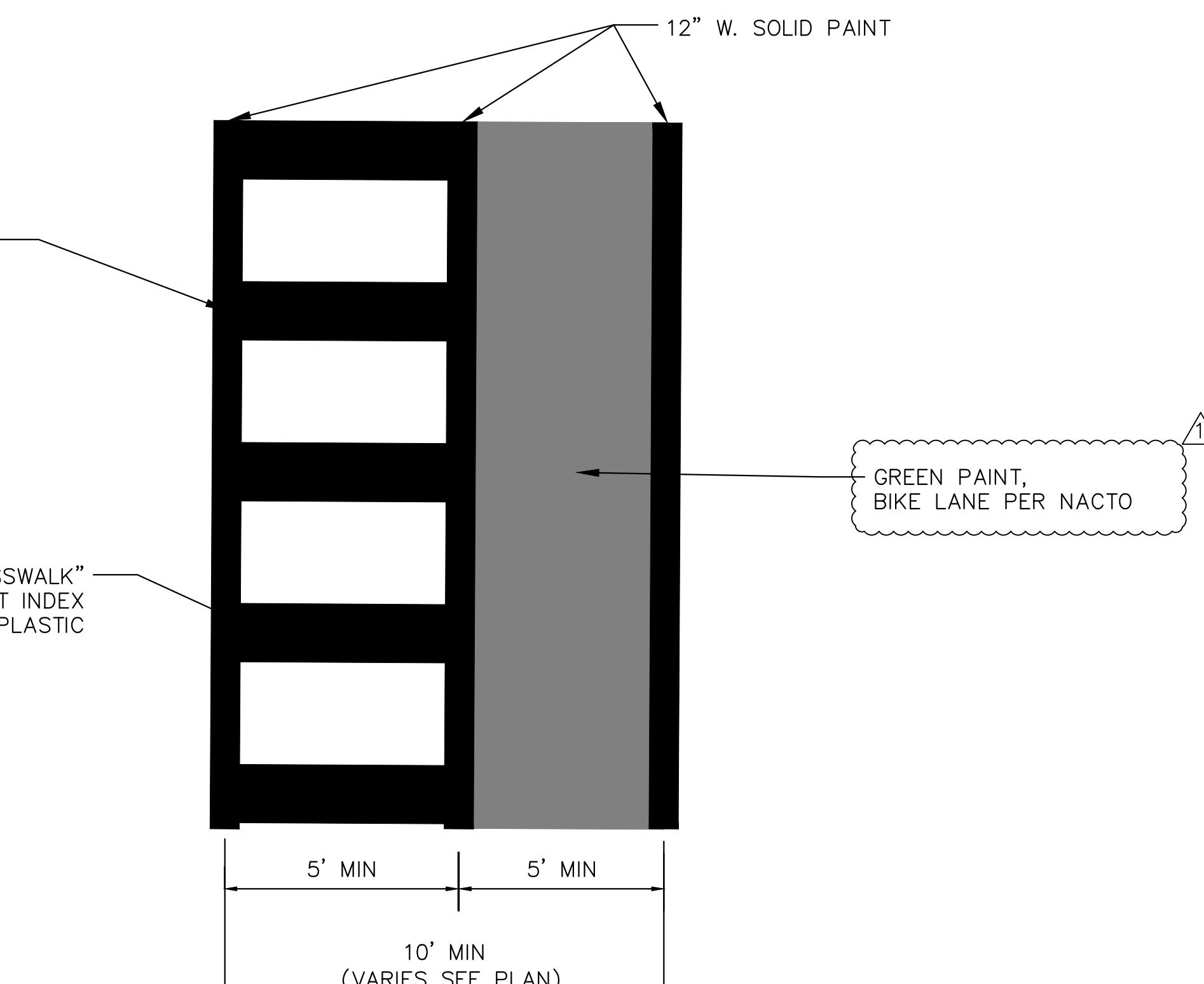
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A181093.02			VERT. N/A
CONTRACT NO.:	DATE DRAWN:	DRAWN BY:	
16-0003-EN	02-01-2020	DOD	
JOB NO.:	DESIGNED BY:	CHECKED BY:	SHEET NO.:
A181093.02	TAF	RF	921
APPROVED BY:			

DWG NAME:	FIELD BOOK:	SURVEYED BY:	SCALE:
A181093.02			VERT. N/A
CONTRACT NO.:	DATE DRAWN:	DRAWN BY:	
16-0003-EN	02-01-2020	DOD	
JOB NO.:	DESIGNED BY:	CHECKED BY:	SHEET NO.:
A181093.02	TAF	RF	921
APPROVED BY:			

DWG NAME:	FIELD BOOK:	SURVEYED BY:	SCALE:
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CONTRACT NO.:	DATE DRAWN:	DRAWN BY:	
16-0003-EN	02-01-2020	DOD	
JOB NO.:	DESIGNED BY:	CHECKED BY:	SHEET NO.:
A181093.02	TAF	RF	921
APPROVED BY:			

DWG NAME:	FIELD BOOK:	SURVEYED BY:	SCALE:
A181093.02			VERT. N/A
CONTRACT NO.:	DATE DRAWN:	DRAWN BY:	
16-0003-EN	02-01-2020	DOD	
JOB NO.:	DESIGNED BY:	CHECKED BY:	SHEET NO.:
A181093.02	TAF	RF	921
APPROVED BY:			

DWG NAME:	FIELD BOOK:	SURVEYED BY:	SCALE:
A181093.02			VERT. N/A
CONTRACT NO.:	DATE DRAWN:	DRAWN BY:	
16-0003-EN	02-01-2020	DOD	
JOB NO.:	DESIGNED BY:	CHECKED BY:	SHEET NO.:
A181093.02	TAF	RF	921
APPROVED BY:			



ROADWAY CROSSWALK DETAIL  
NOTES:  
WIDTH VARIES SEE PLAN. FOR BOTH BIKE AND PEDESTRIAN  
CROSSING, USE 5' MIN FOR SIDE ROADS ONLY

DWG NAME:	FIELD BOOK:	SURVEYED BY:	SCALE:
A181093.02			VERT. N/A
CONTRACT NO.:	DATE DRAWN:	DRAWN BY:	
16-0003-EN	02-01-2020	DOD	
JOB NO.:	DESIGNED BY:	CHECKED BY:	SHEET NO.:
A181093.02	TAF	RF	921
APPROVED BY:			

DWG NAME:	FIELD BOOK:	SURVEYED BY:	SCALE:
A181093.02			VERT. N/A
CONTRACT NO.:	DATE DRAWN:	DRAWN BY:	
16-0003-EN	02-01-2020	DOD	
JOB NO.:	DESIGNED BY:	CHECKED BY:	SHEET NO.:
A181093.02	TAF	RF	921
APPROVED BY:			

DWG NAME:	FIELD BOOK:	SURVEYED BY:	SCALE:
A181093.02			VERT. N/A
CONTRACT NO.:	DATE DRAWN:	DRAWN BY:	
16-0003-EN	02-01-2020	DOD	
JOB NO.:	DESIGNED BY:	CHECKED BY:	SHEET NO.:
A181093.02	TAF	RF	921
APPROVED BY:			

DWG NAME:	FIELD BOOK:	SURVEYED BY:	SCALE:
A181093.02			VERT. N/A
CONTRACT NO.:	DATE DRAWN:	DRAWN BY:	
16-0003-EN	02-01-2020	DOD	
JOB NO.:	DESIGNED BY:	CHECKED BY:	SHEET NO.:
A181093.02	TAF	RF	921
APPROVED BY:			

DWG NAME:	FIELD BOOK:	SURVEYED BY:	SCALE:

CLEVELAND STREETSCAPE and FESTIVAL CORE - PHASE III					
PID 16-0003-EN					
BID OPENING DATE:					
	BID ITEMS	UNIT	QTY	UNIT	AWARDED
				PRICE	AMOUNT
ROADS AND ADMINISTRATION					
1000	DEMOLITION & ADMINISTRATION				
1001	MAINTENANCE OF TRAFFIC	LS	1	\$	-
1002	EROSION AND SEDIMENTATION CONTROLS	LS	1	\$	-
1003	DEMO CURB	SY	11,827	\$	-
1004	MILL ASPHALT	SY	4,765	\$	-
1005	DEMO SIDEWALKS	SY	4,543	\$	-
1006	DEMO DRIVEWAYS	SY	6,180	\$	-
1007	DEMO BUILDING FOUNDATION	SY	150	\$	-
1008	DEMO TREES	EA	114	\$	-
1009	DEMO LIGHTING	EA	50	\$	-
1010	DEMO FIRE HYDRANTS	EA	11	\$	-
1011	DEMO ASPHALT	SY	28,000	\$	-
TOTAL DEMOLITION & ADMINISTRATION				\$0.00	ADD 1011
2000	PAVING				
2001	MAINTENANCE OF TRAFFIC	LS	1	\$	-
2002	EROSION AND SEDIMENTATION CONTROLS	LS	1	\$	-
2003	CUT	CY	28,000	\$	-
2004	EMBANKMENT	CY	9,150	\$	-
2005	CLW TYPE 1 CURB	LF	9,653	\$	-
2006	CLW STRAIGHT CURB	LF	3,200	\$	-
2007	CLW VALLEY GUTTER	LF	2,284	\$	-
2008	TYPE 9.5 (TLB) SUPERPAVE ASPHALTIC CONCRETE (2")	TN	2,654	\$	-
2009	8" AGGREGATE BASE (LBR 100)	SY	22,128	\$	-
TOTAL PAVING				\$0.00	UPDATE QTY
2010	TYPE B STABILIZATION	SY	27,568	\$	-
2011	CONCRETE SIDEWALK, ROCK SALT FINISH, 4" THICK (P-1)	SY	5,700	\$	-
2012	CONCRETE SIDEWALK, BROOM FINISH, 4" THICK (P-2)	SY	4,500	\$	-
2013	CONCRETE DRIVEWAY, BROOM FINISH, 6" THICK	SY	4,501	\$	-
2014	CONCRETE SIDEWALK, SALT AND PEPPER GRANITE (3/4"), HEAVY APPLICATION, 6" THICK (P-4)	SY	2,000	\$	-
2015	DETECTABLE WARNINGS	SF	2,000	\$	-
2016	PLAIN CEMENT CONCRETE PAVEMENT, SALT AND PEPPER GRANITE (3/8"), LIGHT APPLICATION, 8" (V-1)	SY	1,600	\$	-
2017	PLAIN CEMENT CONCRETE PAVEMENT, SALT AND PEPPER GRANITE (3/8"), HEAVY APPLICATION, 8" (V-2)	SY	400	\$	-
2018	TYPE B-12.5 BASE, 4"	SY	2,000	\$	-
2019	CLEANING & SEALING JOINTS- CONCRETE PAVEMENT	LF	3,500	\$	-
TOTAL PAVING				\$0.00	
3000	SIGNAGE AND PAVEMENT MARKINGS				
3001	GREEN COLORED PAVEMENT MARKINGS, BIKE LANE, PAINT	SY	1,400	\$	-
3002	SINGLE POST SIGN, F&I GROUND MOUNT, 12-20 SF	AS	145	\$	-
3003	SINGLE POST SIGN, REMOVE	AS	210	\$	-
3004	PAINTED PAVEMENT MARKINGS, STANDARD,WHITE, SOLID, 6"	GM	0	\$	-
3005	PAINTED PAVEMENT MARKINGS, STANDARD,BLACK, SKIP, 6"	GM	1	\$	-
3006	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	LF	5,400	\$	-
3007	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	LF	1,849	\$	-
3008	THERMOPLASTIC, STANDARD, WHITE, 2-4 DOTTED GUIDELINE, 6"	GM	0	\$	-
3009	THERMOPLASTIC, STANDARD, WHITE, 2-2 DOTTED EXTENSION LINE, 6"	GM	0	\$	-
3010	THERMOPLASTIC, STANDARD, WHITE, MESSAGE OR SYMBOL	EA	20	\$	-

	BID ITEMS	UNIT	QTY	UNIT PRICE	AWARDED AMOUNT			
3011	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA	29	\$ -				
3012	THERMOPLASTIC, STANDARD, WHITE, YIELD LINE	EA	2	\$ -				
3013	THERMOPLASTIC, PREFORMED, WHITE, MESSAGE	EA	49	\$ -				
3014	THERMOPLASTIC, PREFORMED, WHITE, ARROW	EA	49	\$ -				
3015	THERMOPLASTIC, STANDARD, OTHER SURFACES, WHITE, SOLID, 6"	GM	0	\$ -				
3016	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	LF	732	\$ -				
3017	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SKIP, 6", 10-30 SKIP	GM	0	\$ -				
3018	THERMOPLASTIC, STANDARD, OTHER SURFACES, YELLOW, SOLID, 6'	GM	2	\$ -				
	<b>TOTAL SIGNAGE AND PAVEMENT MARKINGS</b>				<b>\$0.00</b>			
<b>4000</b>	<b>LANDSCAPE, IRRIGATION &amp; HARDSCAPE</b>							
4001	TRASH RECEPTACLES	EA	7	\$ -				
4002	BENCHES	EA	10	\$ -				
4003	BIKE RACKS	EA	14	\$ -				
4004	BOLLARDS	EA	78	\$ -				
4005	BUS SHELTERS	EA	2	\$ -				
4006	JAPANESE BLUEBERRY	EA	20	\$ -				
4007	CRAPE MYRTLE	EA	20	\$ -				
4008	MEDJOOL PALM	EA	23	\$ -				
4009	LIVE OAK	EA	93	\$ -				
4010	SABAL PALM	EA	96	\$ -				
4011	FOXTAIL PALM	EA	36	\$ -				
4012	PERENNIAL PEANUT	SF	8,961	\$ -				
4013	DWF BOUGAVILLEA 'HELEN JOHNSON'	EA	467	\$ -				
4014	HORSETAIL	EA	1,170	\$ -				
4015	DWF YAUPON HOLLY	EA	50	\$ -				
4016	PODOCARPUS 'PRINGLES'	EA	396	\$ -				
4017	INDIAN HAWTHORN	EA	1,969	\$ -				
4018	DWF CONFEDERATE JASMINE	EA	3,822	\$ -				
4019	COONTIE	EA	400	\$ -				
4020	BERMUDA 'LATITUDE 36'	SF	65,000	\$ -				
4021	MINI PINE BARK MULCH	CY	215	\$ -				
4022	IRRIGATION	LS	1	\$ -				
4023	TREE GRATE	EA	4	\$ -		<b>ADD 4023 TO 4024</b>		
4024	ROOT BARRIER	LF	3,700	\$ -				
	<b>TOTAL LANDSCAPE, IRRIGATION &amp; HARDSCAPE</b>				<b>\$ -</b>			
<b>5000</b>	<b>ELECTRICAL</b>							
5001	LIGHTING (139 LIGHTS)	EA	139	\$ -				
	<b>TOTAL ELECTRICAL</b>				<b>\$ -</b>			
	<b>SUB-TOTAL ROADS &amp; ADMINISTRATION 1001-5001</b>				<b>\$ -</b>			
<b>5002</b>	<b>10% CONTINGENCY ROADS &amp; ADMINISTRATION 1001-5001</b>	LS	1	\$ -	<b>\$ -</b>			
	<b>TOTAL ROADS &amp; ADMINISTRATION 1001-5002</b>				<b>\$ -</b>			
<b>6000</b>	<b>STORMWATER</b>							
6001	DEMO STORM PIPE	LF	6,088	\$ -				
6002	DEMO STORM STRUCTURES	EA	55	\$ -				
6003	15" RCP	LF	1,219	\$ -				
6004	18" RCP	LF	1,062	\$ -				
6005	24" RCP	LF	3,204	\$ -				
6006	30" RCP	LF	252	\$ -				
6007	36" RCP	LF	502	\$ -				
6008	42" RCP	LF	560	\$ -				
6009	INDEX NO. 425-020 - CURB INLET TYPE 4, <10'	EA	2	\$ -				

	BID ITEMS	UNIT	QTY	UNIT PRICE	AWARDED AMOUNT			
6010	INDEX NO. 425-021 - CURB INLET TYPE 5, <10'	EA	42	\$ -				
6011	INDEX NO. 425-021 - CURB INLET TYPE 6, <10'	EA	3	\$ -				
6012	INDEX NO. 425-052 - TYPE C DBI, <10'	EA	1	\$ -				
6013	INDEX NO. 425-052 - TYPE D DBI, <10'	EA	1	\$ -				
6014	INDEX NO. 425-041 - GUTTER INLET - TYPE V, <10'	EA	15	\$ -				
6015	INDEX NO. 425-001 - TYPE 8 MANHOLE, <10'	EA	11	\$ -				
6016	INDEX NO. 425-001 - TYPE 8 MANHOLE, <10', J BOTTOM	EA	7	\$ -				
6017	BAFFLE BOX	EA	2	\$ -				
6018	15" PIPE CONNECTION INTO EXISTING STRUCTURES	EA	3	\$ -				
6019	18" PIPE CONNECTION INTO EXISTING STRUCTURES	EA	1	\$ -				
6020	24" PIPE CONNECTION INTO EXISTING STRUCTURES	EA	1	\$ -				
6021	STRUCTURE MODIFICATION - TOP REPLACEMENT WITH RING AND COVER	EA	1	\$ -				
6022	8" PVC CONTECH PIPE, TYPE A-2000	LF	11,000	\$ -				
6023	8" UNDER DRAIN CLEANOUT	EA	65	\$ -				
6024	8" PVC OUTFALL PIPE (UNDERDRAINS)	LF	130	\$ -				
6025	RAIN GARDEN	EA	11	\$ -				
<b>SUB-TOTAL STORMWATER 6001-6025</b>					\$ -			
6026	<b>10% CONTINGENCY FOR STORMWATER ITEMS 6001-6025</b>	LS	1	\$ -	<b>\$ -</b>			
<b>TOTAL STORMWATER 6001-6026</b>					<b>\$ -</b>			
<b>UTILITIES</b>								
<b>7000</b>	<b>WATER</b>							
7001	DEMO WATER	LF	10,273	\$ -				
7002	5/8" WATER SERVICE	LF	3,751	\$ -				
7003	1" WATER SERVICE	LF	1,551	\$ -				
7004	2" WATER SERVICE	LF	100	\$ -				
7005	20" DIP WATER MAIN	LF	400	\$ -				
7006	6" DIP WATER MAIN	LF	102	\$ -				
7007	8" PVC WATER MAIN	LF	8,100	\$ -				
7008	6" PVC WATER MAIN	LF	500	\$ -				
7009	4" PVC WATER MAIN	LF	100	\$ -				
7010	LINE STOP 20"	EA	3	\$ -				
7011	LINE STOP 8"	EA	1	\$ -				
7012	LINE STOP 6"	EA	6	\$ -				
7013	LINE STOP 4"	LF	2	\$ -				
7014	8" GATE VALVE	EA	27	\$ -				
7015	6" GATE VALVE	EA	23	\$ -				
7016	4" GATE VALVE	EA	12	\$ -				
7017	AIR RELEASE VALVE ASSEMBLY	EA	2	\$ -				
7018	FITTINGS & APPURTENANCES	TN	5	\$ -				
7019	RESTRAINTS, BELL AT TIE-IN	EA	230	\$ -				
7020	FIRE HYDRANT ASSEMBLY	EA	15	\$ -				
<b>SUBTOTAL WATER</b>					<b>\$ -</b>			
7021	<b>10% CONTINGENCY</b>	LS	1	0.00	<b>\$ -</b>			
<b>TOTAL WATER</b>					<b>\$ -</b>			
<b>8000</b>	<b>RECLAIMED WATER</b>							
8001	4" PVC RECLAIM MAIN	LF	7,300	\$ -				
8002	1" RECLAIM SERVICE	LF	880	\$ -				
8003	2" RECLAIM SERVICE	LF	880	\$ -				
8004	4" GATE VALVE	EA	42	\$ -				
8005	SERVICE BOX	EA	95	\$ -				
8006	4" BLOWOFF ASSEMBLY	EA	15	\$ -				
<b>SUBTOTAL RECLAIMED WATER</b>					<b>\$ -</b>			

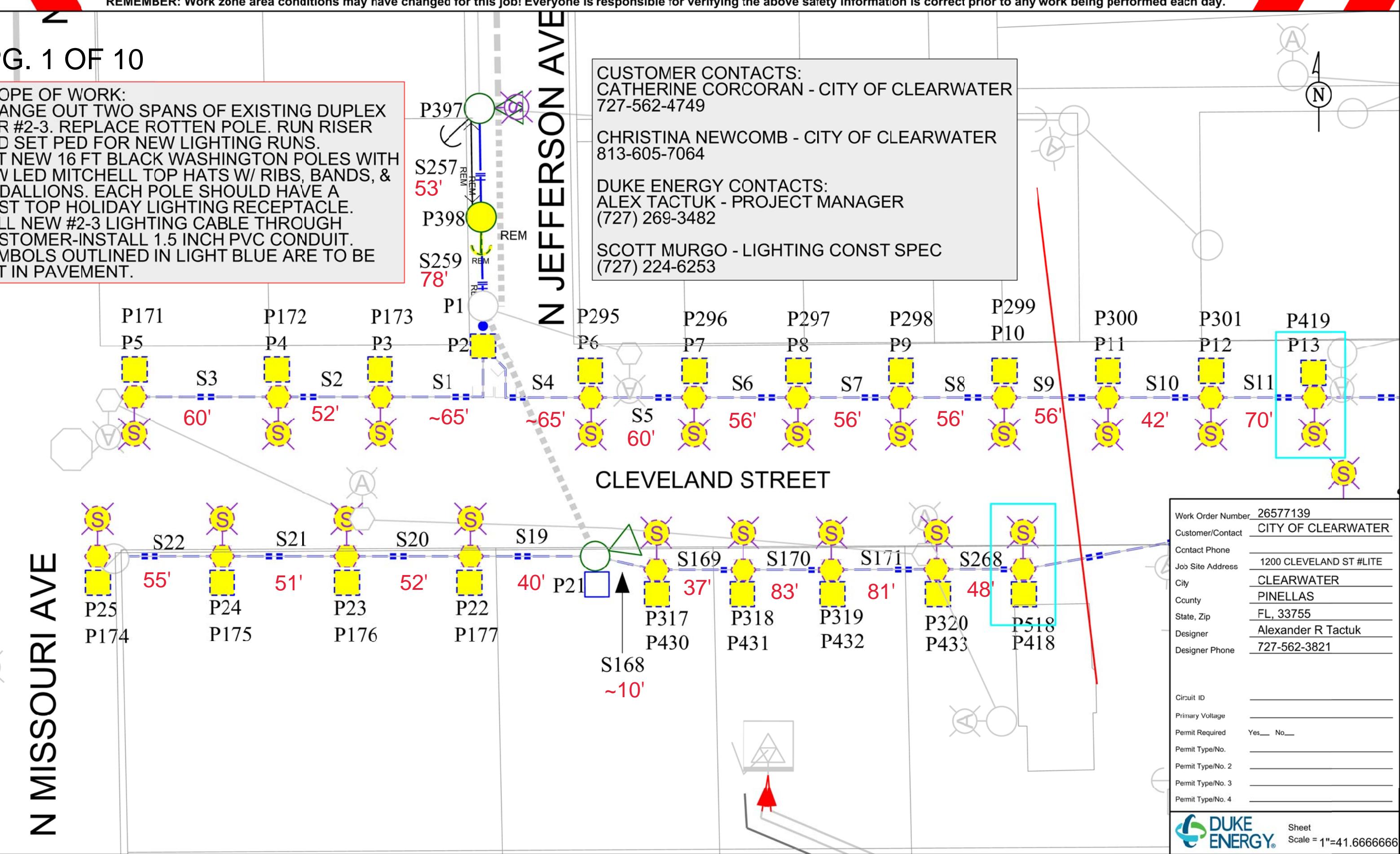
	BID ITEMS	UNIT	QTY	UNIT PRICE	AWARDED AMOUNT				
8007	10% CONTINGENCY TOTAL RECLAIMED WATER	LS	1	0.00	\$ - \$ -				
9000	SANITARY SEWER								
9001	DEMO SEWER PIPE	LF	4,184		\$ -				
9002	DEMO SEWER STRUCTURES	EA	18		\$ -				
9003	SANITARY SEWER MANHOLE	EA	20		\$ -				
9004	SANITARY SEWER MANHOLE - CONNECT TO EX	EA	2		\$ -				
9005	SANITARY SEWER PIPE -12" PVC	LF	40		\$ -				
9006	SANITARY SEWER PIPE -10" PVC	LF	270		\$ -				
9007	SANITARY SEWER PIPE - 8" PVC	LF	3,700		\$ -				
9008	SANITARY SEWER PIPE - LATERAL - 6" PVC	LF	2,500		\$ -				
9009	INSTALL CLEAN-OUT	EA	48		\$ -				
	SUBTOTAL SANITARY SEWER				\$ -				
9010	10% CONTINGENCY TOTAL SANITARY SEWER	LS	1	0.00	\$ - \$ -				
	SUB-TOTAL UTILITIES				0.00				
	TOTAL 10% CONTINGENCY				0.00				
	TOTAL UTILITIES				0.00				
10000	GATEWAY FESTIVAL CORE								
10001	CONCRETE SIDEWALK AND DRIVEWAYS, 4" THICK	LS	1		\$ -				UPDATE UNITS TO LS 10001 TO 10008
10002	CONCRETE SIDEWALK AND DRIVEWAYS, 6" THICK	LS	1		\$ -				
10003	CONCRETE HEADER CURB, 6"	LS	1		\$ -				
10004	PIPE HANDRAIL - GUIDERAIL, ALUMINUM	LS	1		\$ -				
10005	CONCRETE CLASS NS, CONCRETE STEPS	LS	1		\$ -				
10006	REINFORCING STEEL - MISCELLANEOUS	LS	1		\$ -				
10007	CONCRETE CLASS II, RETAINING WALL	LS	1		\$ -				
10008	REINFORCING STEEL - RETAINING WALL	LS	1		\$ -				
10009	LANDSCAPE PLANTERS	LS	1		\$ -				
10010	SITE LIGHTING	LS	1		\$ -				
10011	IRRIGATION	LS	1		\$ -				
10012	SHADE STRUCTURE	LS	1		\$ -				
10013	SHADE STRUCTURE FOUNDATION	LS	1		\$ -				
10014	MASONRY STORAGE STRUCTURE	LS	1		\$ -				
	SUB-TOTAL GATEWAY FESTIVAL CORE 10000-10014				\$ -				
10015	10% CONTINGENCY GATEWAY FESTIVAL CORE 10000-10014	LS	1	\$ -	\$ - \$ -				
	TOTAL GATEWAY FESTIVAL CORE 10000-10015				\$ -				
	SUBTOTAL				\$ -				
11000	TOTAL 10% CONTIGENCY				\$ -				
	TOTAL CONSTRUCTION COST				\$ -				
	GRAND TOTAL				\$ -				
	GAI has no control over the cost of labor or materials, the General Contractors or any Subcontractor's method of determining prices, competitive bidding and market conditions. This opinion/cost analysis is made on the basis of experience, qualifications, and best judgment of a professional construction consultant familiar with the construction industry.								

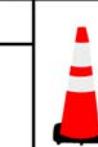


REMEMBER: Work zone area conditions may have changed for this job! Everyone is responsible for verifying the above safety information is correct prior to any work being performed each day.

PG. 1 OF 10

**SCOPE OF WORK:**  
 CHANGE OUT TWO SPANS OF EXISTING DUPLEX FOR #2-3. REPLACE ROTTEN POLE. RUN RISER AND SET PED FOR NEW LIGHTING RUNS.  
 SET NEW 16 FT BLACK WASHINGTON POLES WITH 50W LED MITCHELL TOP HATS W/ RIBS, BANDS, & MEDALLIONS. EACH POLE SHOULD HAVE A POST TOP HOLIDAY LIGHTING RECEPTACLE.  
 PULL NEW #2-3 LIGHTING CABLE THROUGH CUSTOMER-INSTALL 1.5 INCH PVC CONDUIT.  
 SYMBOLS OUTLINED IN LIGHT BLUE ARE TO BE SET IN PAVEMENT.

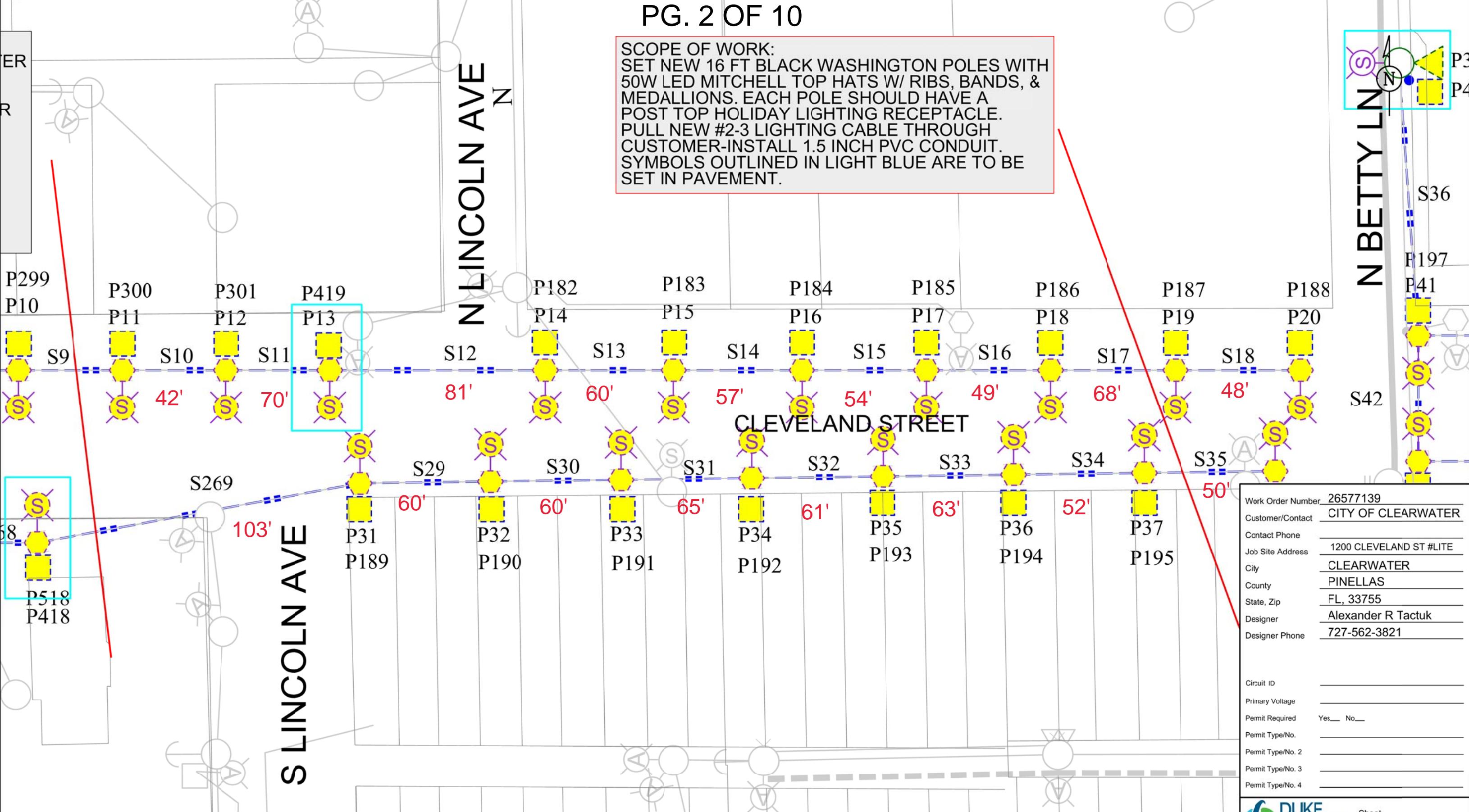


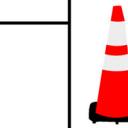


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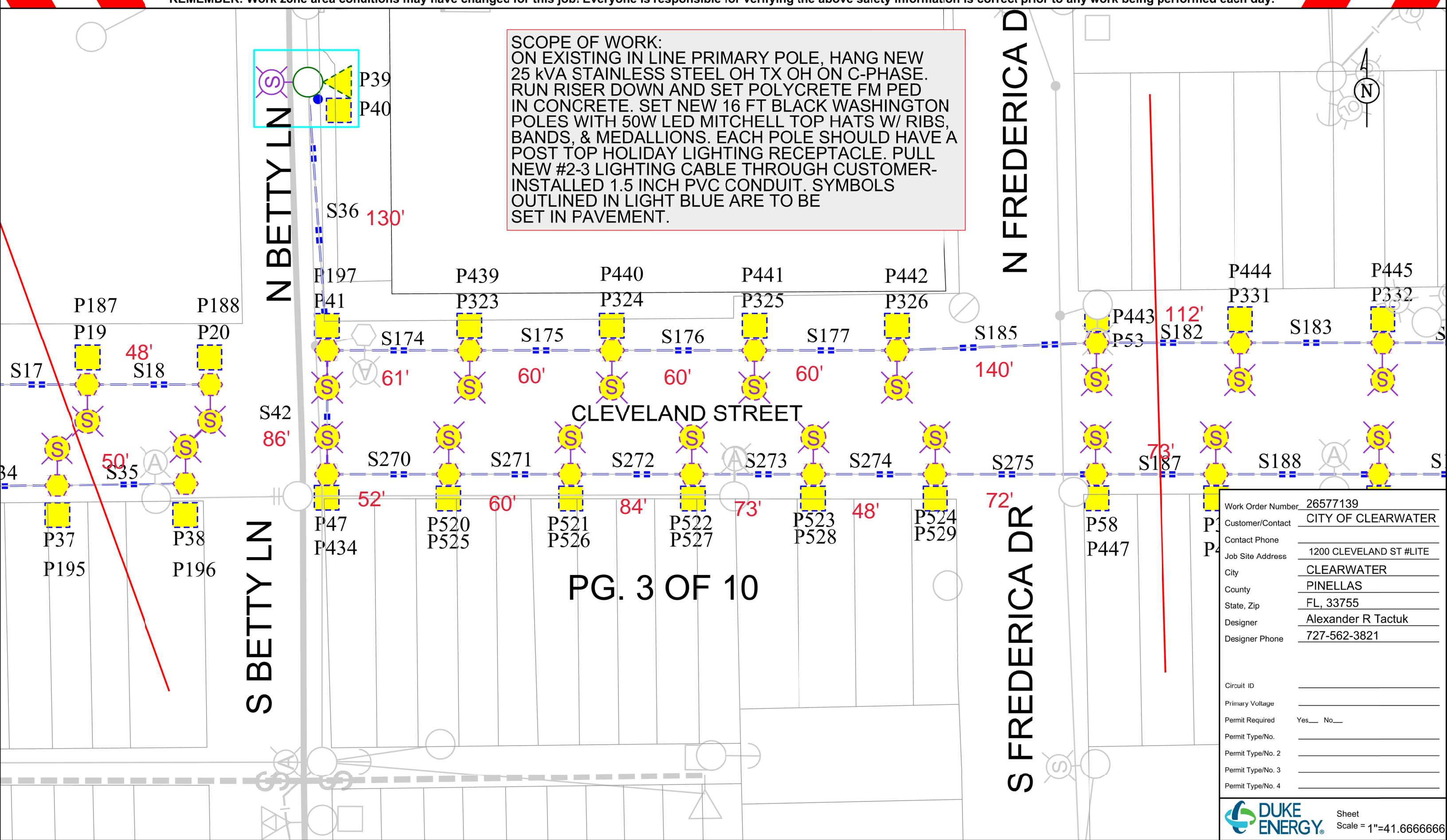
## PG. 2 OF 10

**SCOPE OF WORK:**  
 SET NEW 16 FT BLACK WASHINGTON POLES WITH 50W LED MITCHELL TOP HATS W/ RIBS, BANDS, & MEDALLIONS. EACH POLE SHOULD HAVE A POST TOP HOLIDAY LIGHTING RECEPTACLE.  
 PULL NEW #2-3 LIGHTING CABLE THROUGH CUSTOMER-INSTALL 1.5 INCH PVC CONDUIT.  
 SYMBOLS OUTLINED IN LIGHT BLUE ARE TO BE SET IN PAVEMENT.





REMEMBER: Work zone area conditions may have changed for this job! Everyone is responsible for verifying the above safety information is correct prior to any work being performed each day.





**USP:** Add Up Stream Protection, Facility ID, and Blocking Devise Type  
**USP:**  
**USP:**  
**USP:**  
**USP:**

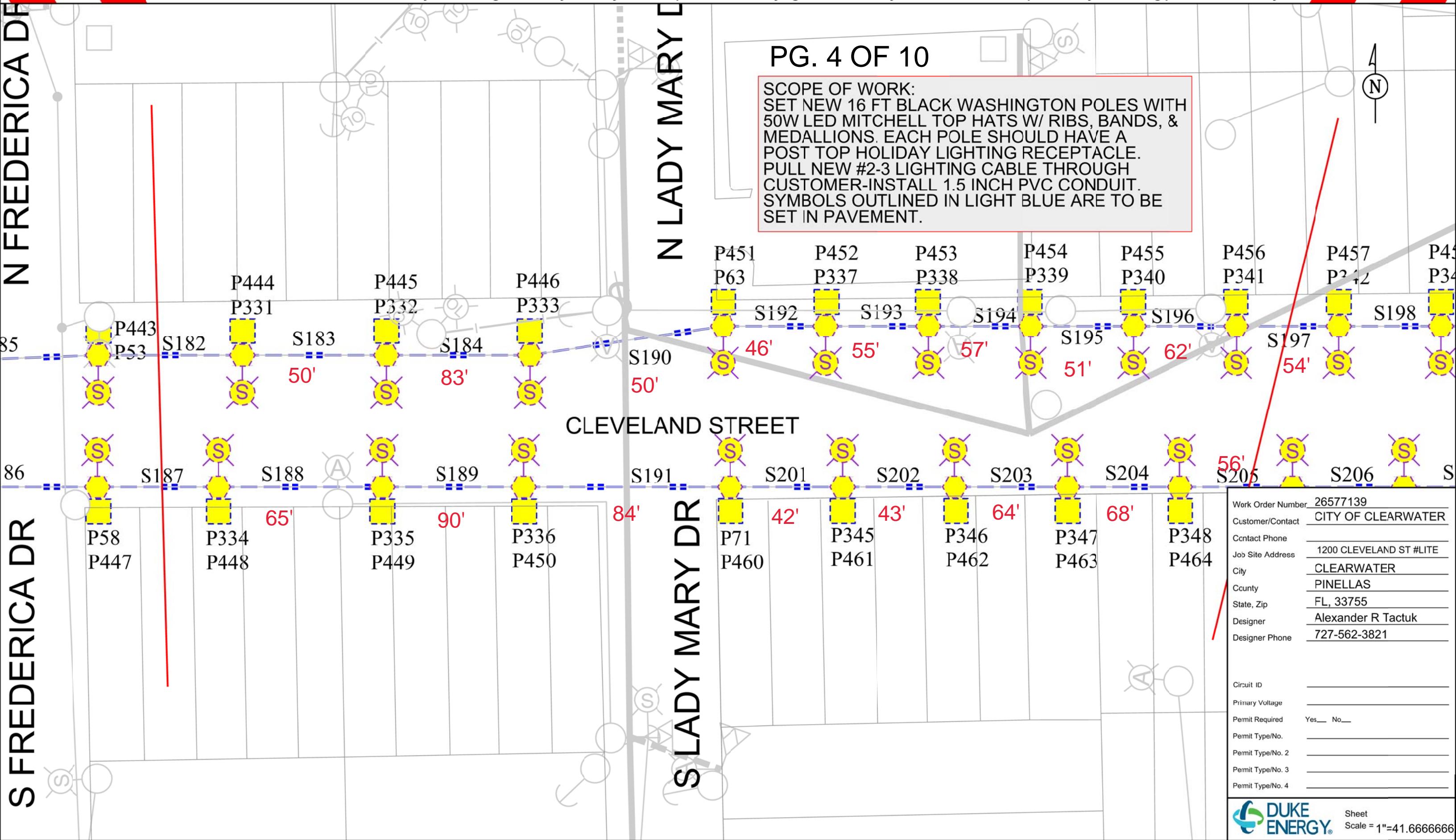


## Safety Reminders / Adverse Conditions



#### Work Zone General Comments: Double click to edit

**REMEMBER:** Work zone area conditions may have changed for this job! Everyone is responsible for verifying the above safety information is correct prior to any work being performed each day.



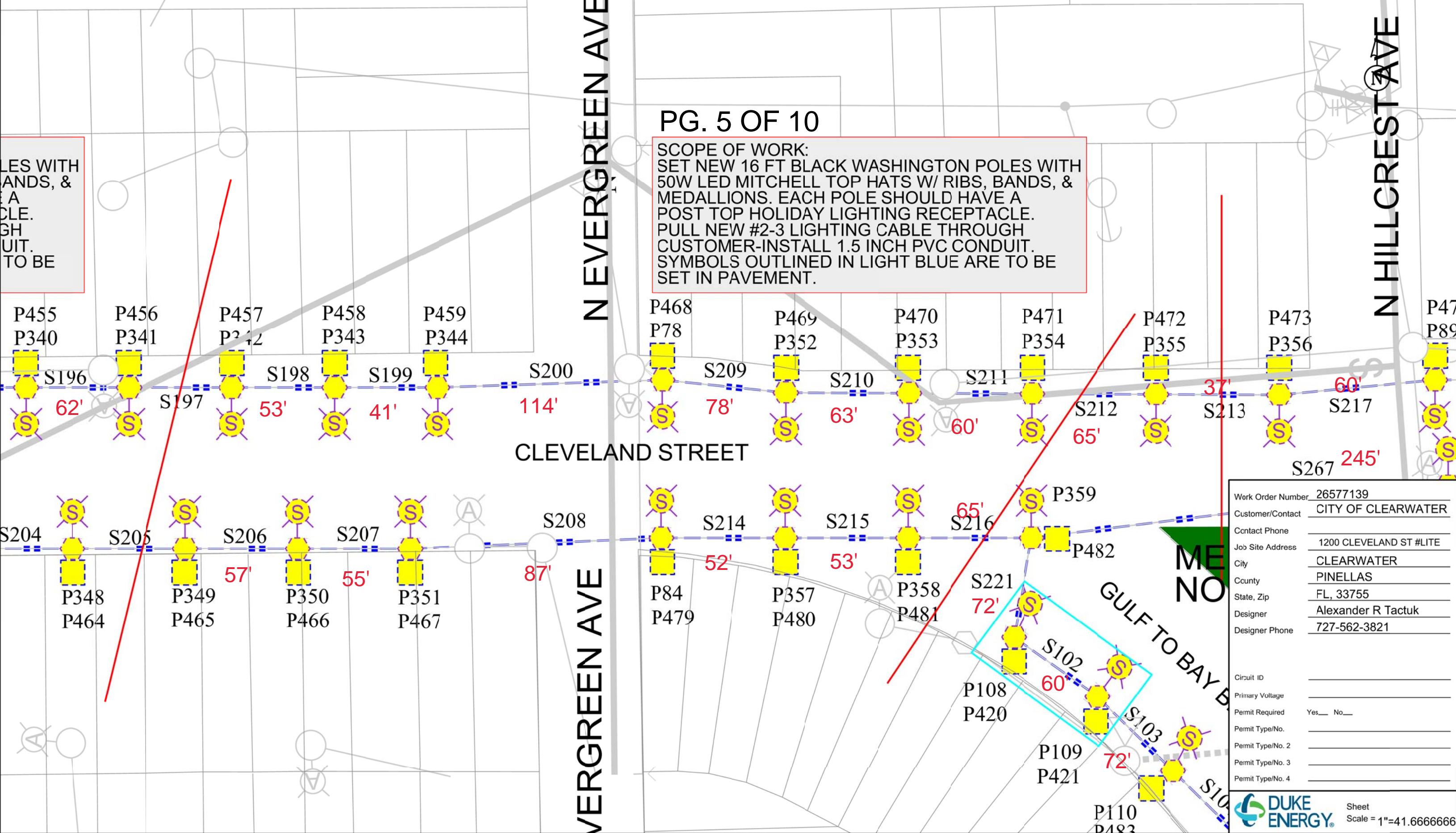
PG. 4 OF 10

**SCOPE OF WORK:**  
SET NEW 16 FT BLACK WASHINGTON POLES WITH  
50W LED MITCHELL TOP HATS W/ RIBS, BANDS, &  
MEDALLIONS. EACH POLE SHOULD HAVE A  
POST TOP HOLIDAY LIGHTING RECEPTACLE.  
PULL NEW #2-3 LIGHTING CABLE THROUGH  
CUSTOMER-INSTALL 1.5 INCH PVC CONDUIT.  
SYMBOLS OUTLINED IN LIGHT BLUE ARE TO BE  
SET IN PAVEMENT.

Work Order Number	26577139
Customer/Contact	CITY OF CLEARWATER
Contact Phone	
Job Site Address	1200 CLEVELAND ST #LITE
City	CLEARWATER
County	PINELLAS
State, Zip	FL, 33755
Designer	Alexander R Tactuk
Designer Phone	727-562-3821
Circuit ID	
Primary Voltage	
Permit Required	Yes <input type="checkbox"/> No <input type="checkbox"/>
Permit Type/No.	
Permit Type/No. 2	
Permit Type/No. 3	



REMEMBER: Work zone area conditions may have changed for this job! Everyone is responsible for verifying the above safety information is correct prior to any work being performed each day.

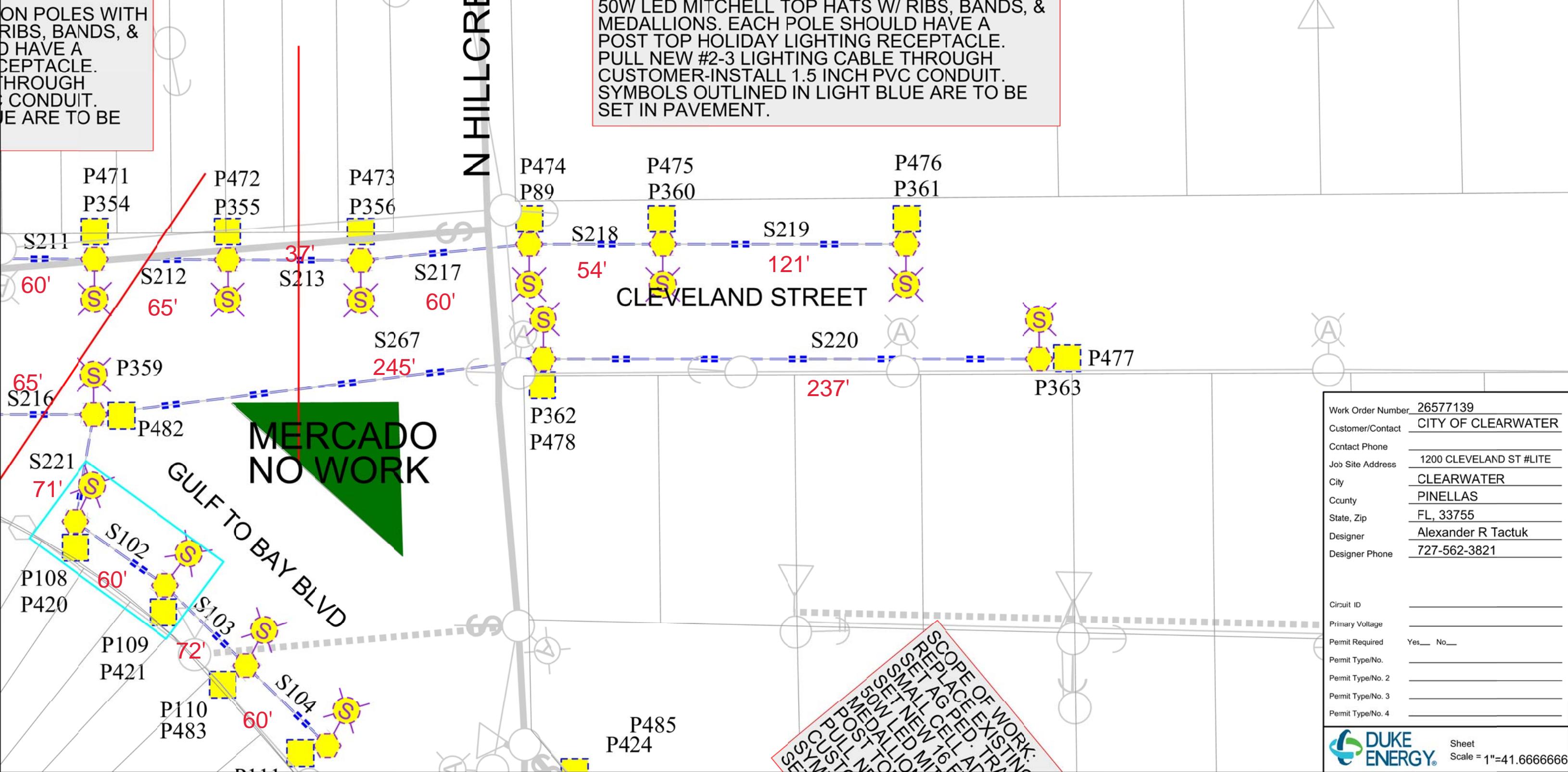




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PG. 6 OF 10

**SCOPE OF WORK:**  
 SET NEW 16 FT BLACK WASHINGTON POLES WITH 50W LED MITCHELL TOP HATS W/ RIBS, BANDS, & MEDALLIONS. EACH POLE SHOULD HAVE A POST TOP HOLIDAY LIGHTING RECEPTACLE. PULL NEW #2-3 LIGHTING CABLE THROUGH CUSTOMER-INSTALL 1.5 INCH PVC CONDUIT. SYMBOLS OUTLINED IN LIGHT BLUE ARE TO BE SET IN PAVEMENT.

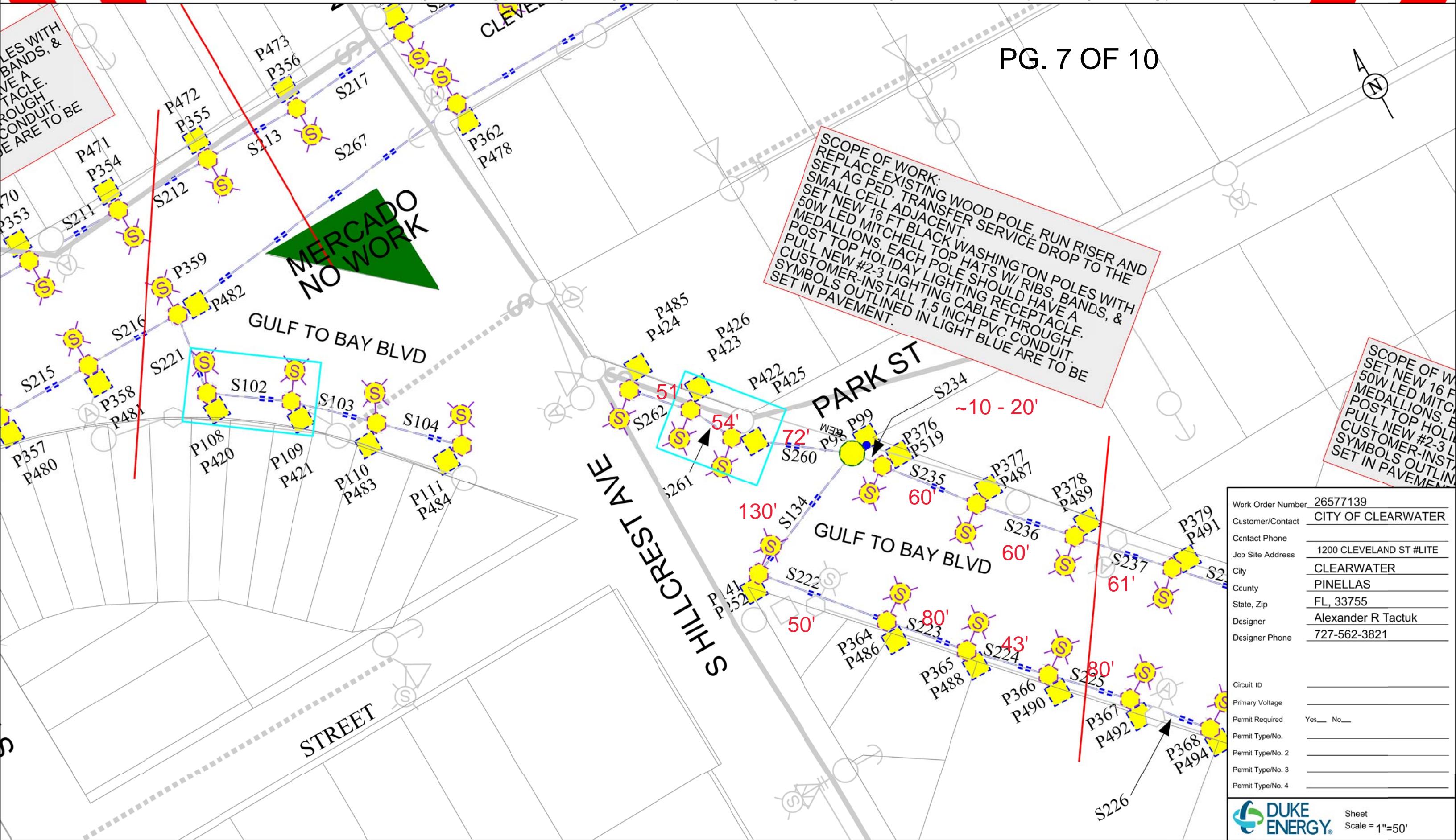


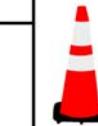
Work Order Number	26577139
Customer/Contact	CITY OF CLEARWATER
Contact Phone	
Job Site Address	1200 CLEVELAND ST #LITE
City	CLEARWATER
County	PINELLAS
State, Zip	FL, 33755
Designer	Alexander R Tactuk
Designer Phone	727-562-3821
Circuit ID	
Primary Voltage	
Permit Required	Yes <input type="checkbox"/> No <input type="checkbox"/>
Permit Type/No.	
Permit Type/No. 2	
Permit Type/No. 3	
Permit Type/No. 4	



REMEMBER: Work zone area conditions may have changed for this job! Everyone is responsible for verifying the above safety information is correct prior to any work being performed each day.

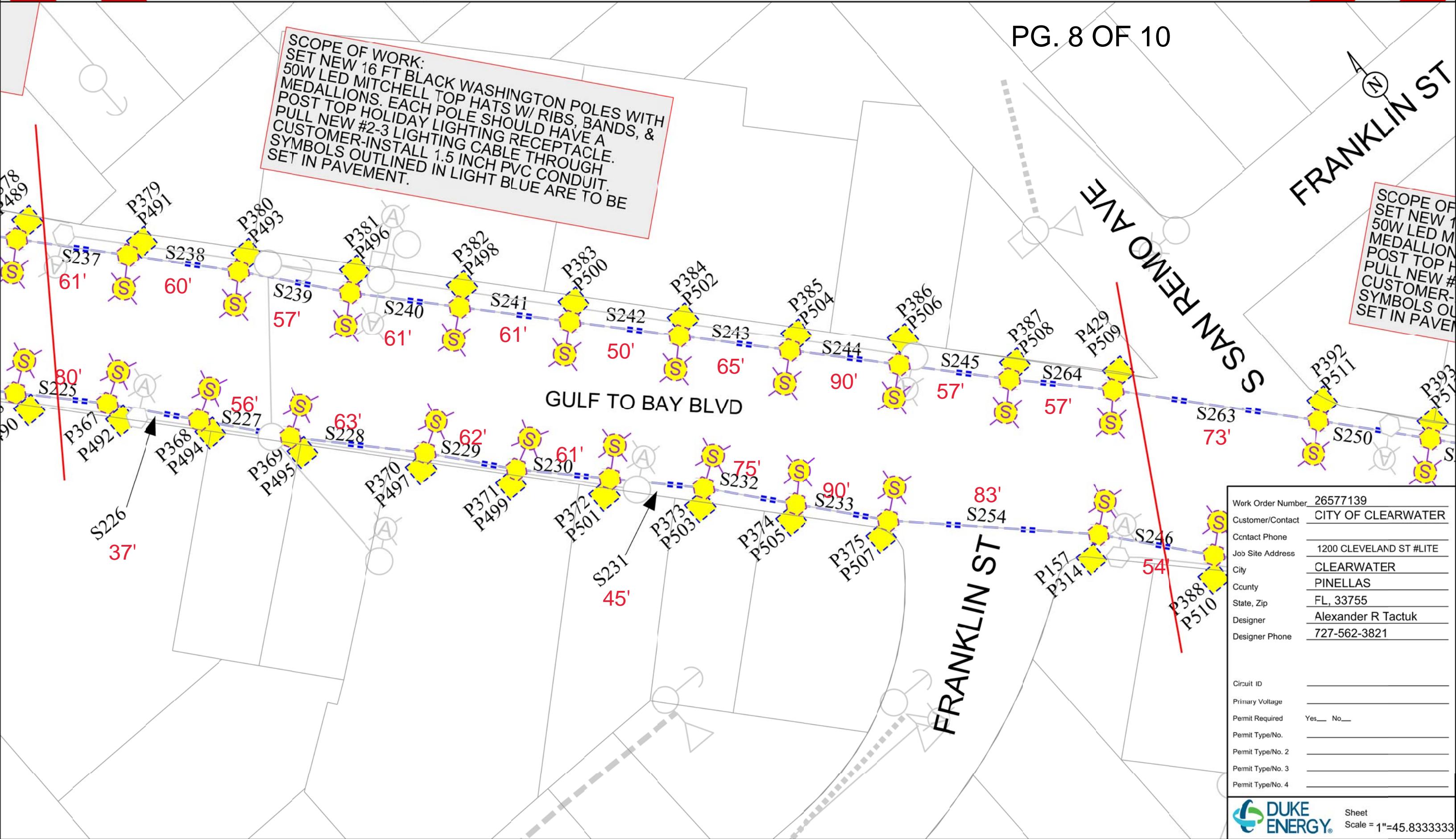
PG. 7 OF 10





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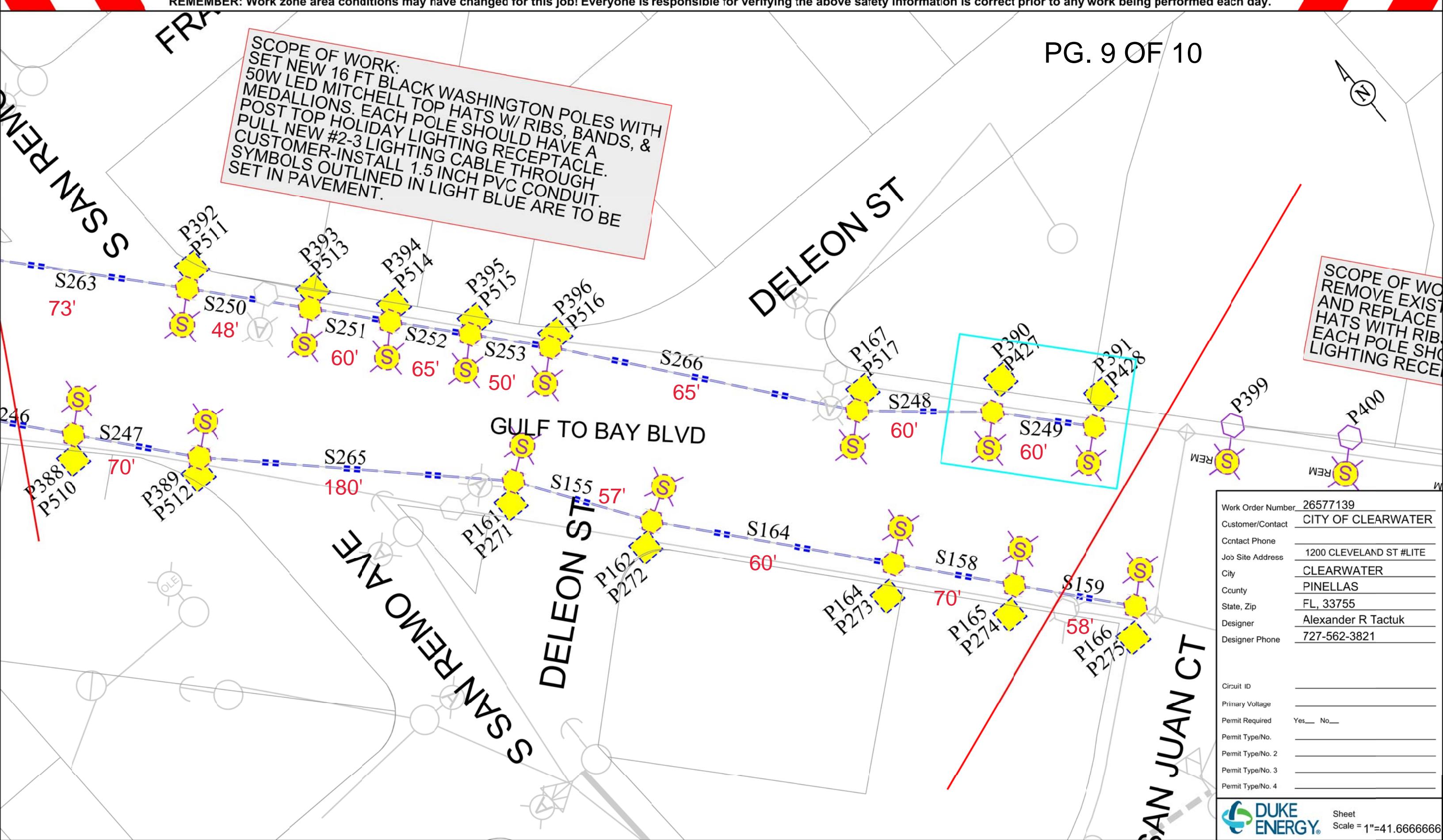
PG. 8 OF 10



Work Order Number	26577139
Customer/Contact	CITY OF CLEARWATER
Contact Phone	
Job Site Address	1200 CLEVELAND ST #LITE
City	CLEARWATER
County	PINELLAS
State, Zip	FL, 33755
Designer	Alexander R Tactuk
Designer Phone	727-562-3821
Circuit ID	
Primary Voltage	
Permit Required	Yes <input type="checkbox"/> No <input type="checkbox"/>
Permit Type/No.	
Permit Type/No. 2	
Permit Type/No. 3	
Permit Type/No. 4	



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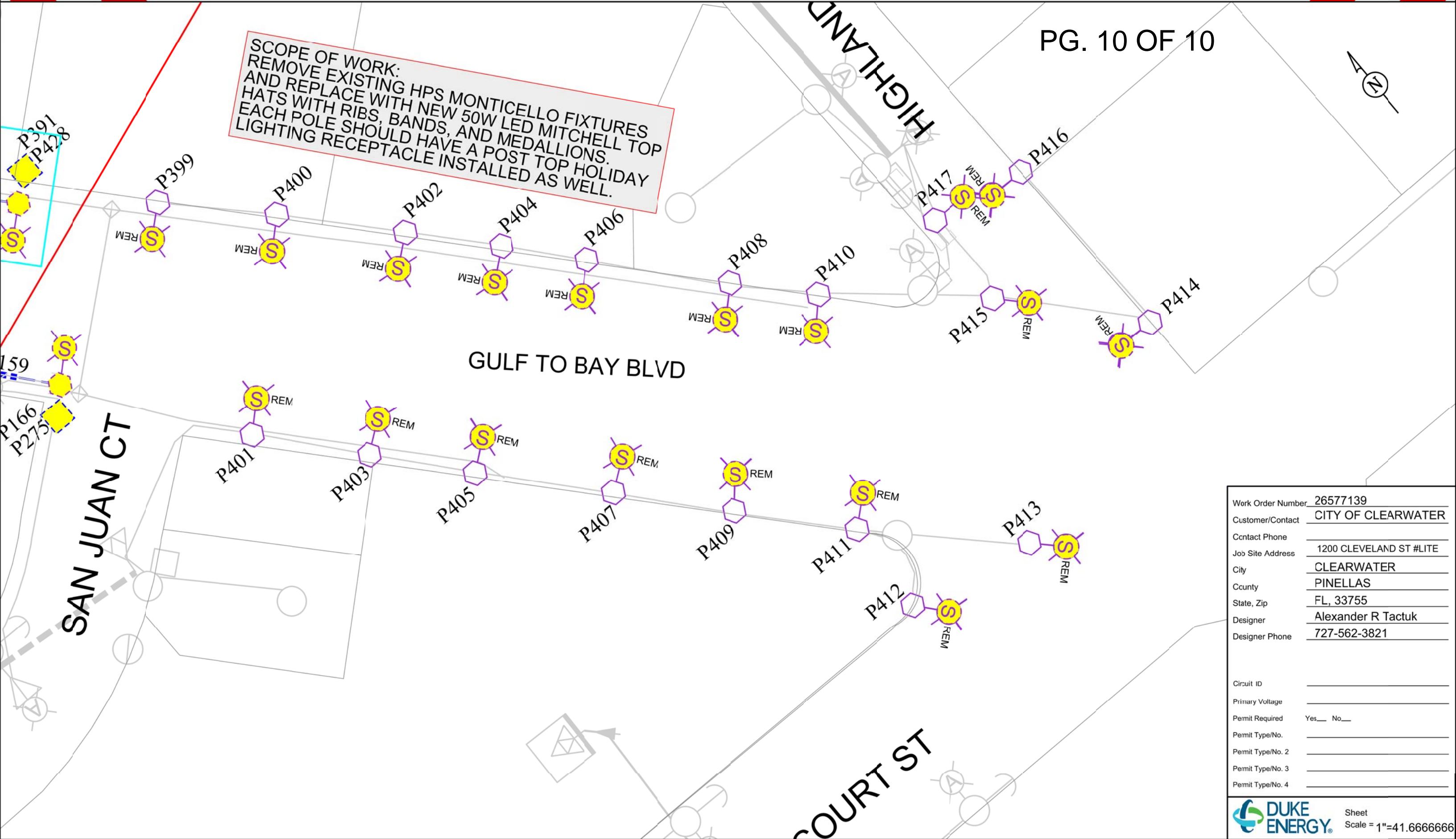


REMEMBER: Work zone area conditions may have changed for this job! Everyone is responsible for verifying the above safety information is correct prior to any work being performed each day.

PG. 10 OF 10



**SCOPE OF WORK:**  
 REMOVE EXISTING HPS MONTICELLO FIXTURES  
 AND REPLACE WITH NEW 50W LED MITCHELL TOP  
 HATS WITH RIBS, BANDS, AND MEDALLIONS.  
 EACH POLE SHOULD HAVE A POST TOP HOLIDAY  
 LIGHTING RECEPTACLE INSTALLED AS WELL.



Work Order Number	26577139
Customer/Contact	CITY OF CLEARWATER
Contact Phone	
Job Site Address	1200 CLEVELAND ST #LITE
City	CLEARWATER
County	PINELLAS
State, Zip	FL, 33755
Designer	Alexander R Tactuk
Designer Phone	727-562-3821
Circuit ID	
Primary Voltage	
Permit Required	Yes <input type="checkbox"/> No <input type="checkbox"/>
Permit Type/No.	
Permit Type/No. 2	
Permit Type/No. 3	
Permit Type/No. 4	



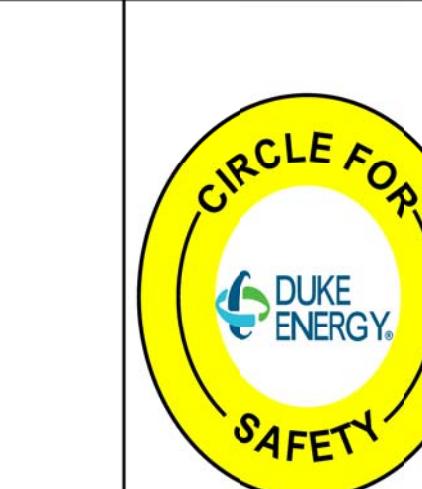
**USP:** Add Up Stream Protection, Facility ID, and Blocking Devise Type

**USP:**

**USP:**

**USP:**

**USP:**



### Safety Reminders / Adverse Conditions

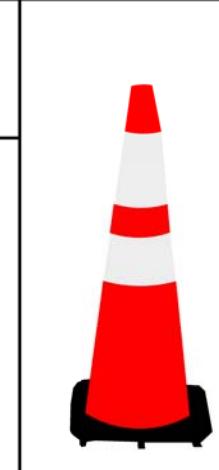
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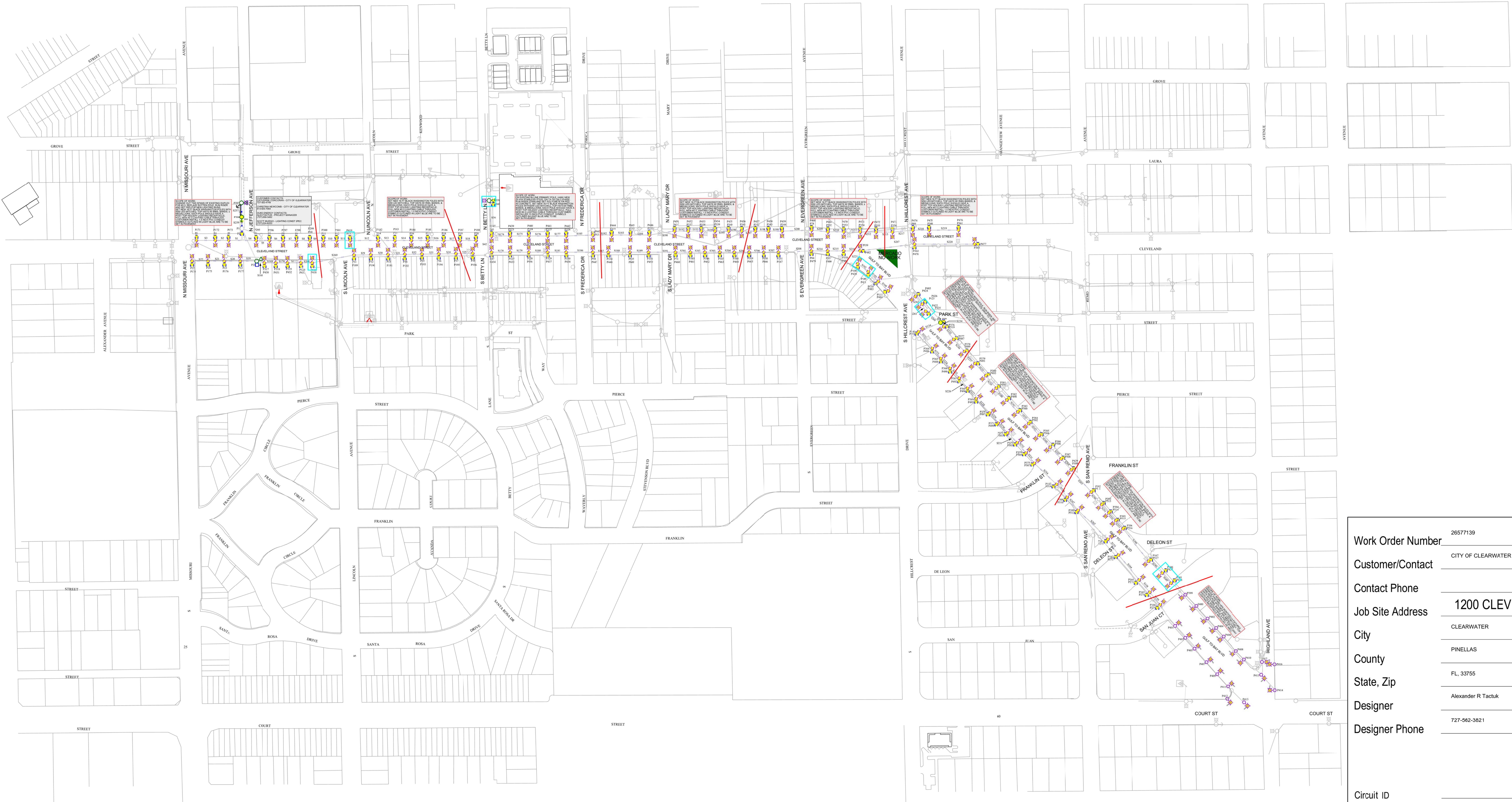
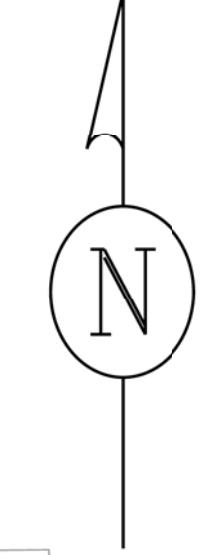
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**Work Zone General Comments: Double click to e**



**REMEMBER:** Work zone area conditions may have changed for this job! Everyone is responsible for verifying the above safety information is correct prior to any work being performed each day.



Work Order Number	26577139
Customer/Contact	CITY OF CLEARWATER
Contact Phone	
Job Site Address	1200 CLEVELAND ST #LITE
City	CLEARWATER
County	PINELLAS
State, Zip	FL, 33755
Designer	Alexander R Tactuk
Designer Phone	727-562-3821
Circuit ID	
Primary Voltage	
Permit Required	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Permit Type/No.	
Permit Type/No. 2	
Permit Type/No. 3	
Permit Type/No. 4	

**CONSTRUCTION PRINT PAGE 1 ANNOTATIONS**

P397  
4803949  
E - 40-5 WOOD  
E - OH TX  
E - 50W LED  
R/I - SECONDARY HDWR

P398  
OLD TAG: 237860  
NEW TAG: 8742947  
R/I - 30-6 WOOD  
R/I - DOWN GUY  
R/I - SECONDARY HDWR

P1  
243784  
E - 40-5 WOOD  
R/I - SECONDARY HDWR  
I - SECONDARY RISER

P2  
8743022  
I - 9X14 AG PED

P3  
8742924  
I - 16 FT BLACK WASHINGTON  
I - 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I - POST TOP RECEPTACLE

P173  
8743027  
I - 9X14 FM PED

P4  
8742925  
I - 16 FT BLACK WASHINGTON  
I - 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I - POST TOP RECEPTACLE

P172  
8743024  
I - 9X14 FM PED

P5  
8742922  
I - 16 FT BLACK WASHINGTON  
I - 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I - POST TOP RECEPTACLE

P171  
8743021  
I - 9X14 FM PED

P6  
8742923  
I - 16 FT BLACK WASHINGTON  
I - 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I - POST TOP RECEPTACLE

P295  
8742983  
I - 9X14 FM PED

P7  
8742921  
I - 16 FT BLACK WASHINGTON  
I - 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I - POST TOP RECEPTACLE

P296  
8742984  
I - 9X14 FM PED

P8  
8742914  
I - 16 FT BLACK WASHINGTON  
I - 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I - POST TOP RECEPTACLE

P297  
8742981  
I - 9X14 FM PED

P9  
8742915  
I - 16 FT BLACK WASHINGTON  
I - 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I - POST TOP RECEPTACLE

P298  
8742982  
I - 9X14 FM PED

P10  
8742912  
I - 16 FT BLACK WASHINGTON  
I - 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I - POST TOP RECEPTACLE

P299  
8742985  
I - 9X14 FM PED

P25  
8742941  
I - 16 FT BLACK WASHINGTON  
I - 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I - POST TOP RECEPTACLE

P174  
8743028  
I - 9X14 FM PED

P24  
8742944  
I - 16 FT BLACK WASHINGTON  
I - 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I - POST TOP RECEPTACLE

P175  
8743025  
I - 9X14 FM PED

P23  
8742943  
I - 16 FT BLACK WASHINGTON  
I - 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I - POST TOP RECEPTACLE

P176  
8743025  
I - 9X14 FM PED

P22  
8742940  
I - 16 FT BLACK WASHINGTON  
I - 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I - POST TOP RECEPTACLE

P177  
8743019  
I - 9X14 FM PED

P21  
23835  
E - 40-5 WOOD  
E - OH TX

P317  
8742852  
I - 16 FT BLACK WASHINGTON  
I - 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I - POST TOP RECEPTACLE

P430  
8742976  
I - 9X14 FM PED

P318  
8742853  
I - 16 FT BLACK WASHINGTON  
I - 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I - POST TOP RECEPTACLE

P431  
8742977  
I - 9X14 FM PED

P319  
8742858  
I - 16 FT BLACK WASHINGTON  
I - 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I - POST TOP RECEPTACLE

P432  
8743002  
I - 9X14 FM PED

P320  
8742859  
I - 16 FT BLACK WASHINGTON  
I - 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I - POST TOP RECEPTACLE

P433  
8743003  
I - 9X14 FM PED

P518  
8742859  
I - 16 FT BLACK WASHINGTON  
I - 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I - POST TOP RECEPTACLE  
**\*\*SET POLE IN CONCRETE\*\***

P418  
8742980  
I - 10X15 POLYCRETE FM PED  
**\*\*SET PED IN CONCRETE\*\***

**CONSTRUCTION PRINT PAGE 2 ANNOTATIONS**

P11  
8742913  
I - 16 FT BLACK WASHINGTON  
I - 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I - POST TOP RECEPTACLE

P300  
8742988  
I - 9X14 FM PED

P12  
8742916  
I - 16 FT BLACK WASHINGTON  
I - 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I - POST TOP RECEPTACLE

P301  
8742989  
I - 9X14 FM PED

P13  
8742919  
I - 16 FT BLACK WASHINGTON  
I - 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I - POST TOP RECEPTACLE  
**\*\*SET POLE IN CONCRETE\*\***

P419  
8742973  
I - 10X15 POLYCRETE FM PED  
**\*\*SET PED IN CONCRETE\*\***

P14  
8742920  
I - 16 FT BLACK WASHINGTON  
I - 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I - POST TOP RECEPTACLE

P182  
8743012  
I - 9X14 FM PED

P15  
8742917  
I - 16 FT BLACK WASHINGTON  
I - 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I - POST TOP RECEPTACLE

**CONSTRUCTION PRINT PAGE 2 ANNOTATIONS (CONTINUED)**

P183  
8743013  
I - 9X14 FM PED

P16  
8742918  
I - 16 FT BLACK WASHINGTON  
I - 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I - POST TOP RECEPTACLE

P184  
8743010  
I - 9X14 FM PED

P17  
8742938  
I - 16 FT BLACK WASHINGTON  
I - 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I - POST TOP RECEPTACLE

P185  
8743011  
I - 9X14 FM PED

P18  
8742939  
I - 16 FT BLACK WASHINGTON  
I - 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I - POST TOP RECEPTACLE

P186  
8743014  
I - 9X14 FM PED

P31  
8742942  
I - 16 FT BLACK WASHINGTON  
I - 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I - POST TOP RECEPTACLE

P189  
8743015  
I - 9X14 FM PED

P32  
8742935  
I - 16 FT BLACK WASHINGTON  
I - 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I - POST TOP RECEPTACLE

P190  
8743016  
I - 9X14 FM PED

P33  
8742928  
I - 16 FT BLACK WASHINGTON  
I - 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I - POST TOP RECEPTACLE

P191  
8743041  
I - 9X14 FM PED

P34  
8742929  
I - 16 FT BLACK WASHINGTON  
I - 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I - POST TOP RECEPTACLE

P192  
8743042  
I - 9X14 FM PED

P35  
8742926  
I - 16 FT BLACK WASHINGTON  
I - 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I - POST TOP RECEPTACLE

P193  
8743039  
I - 9X14 FM PED

P36  
8742927  
I - 16 FT BLACK WASHINGTON  
I - 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I - POST TOP RECEPTACLE

P194  
8743040  
I - 9X14 FM PED

P37  
8742930  
I - 16 FT BLACK WASHINGTON  
I - 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I - POST TOP RECEPTACLE

P195  
8743043  
I - 9X14 FM PED

**CONSTRUCTION PRINT PAGE 3 ANNOTATIONS**

P19  
8742936  
I - 16 FT BLACK WASHINGTON  
I - 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I - POST TOP RECEPTACLE

P187  
8743017  
I - 9X14 FM PED

P20  
8742937  
I - 16 FT BLACK WASHINGTON  
I - 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I - POST TOP RECEPTACLE

P188  
8743018  
I - 9X14 FM PED

P38  
8742933  
I - 16 FT BLACK WASHINGTON  
I - 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I - POST TOP RECEPTACLE

P196  
8743046  
I - 9X14 FM PED

P39  
4804193  
E - 45 FT CONCRETE POLE  
I - 25 KVA STAINLESS STEEL OH TX  
C-PHASE  
I - SECONDARY RISER

P40  
8743023  
I - 10X15 POLYCRETE FM PED  
**\*\*\*SET PED IN CONCRETE\*\*\***

P41  
8742934  
I - 16 FT BLACK WASHINGTON  
I - 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I - POST TOP RECEPTACLE

P197  
8743047  
I - 9X14 FM PED

P323  
8742814  
I - 16 FT BLACK WASHINGTON  
I - 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I - POST TOP RECEPTACLE

P439  
8743005  
I - 9X14 FM PED

P324  
8742811  
I - 16 FT BLACK WASHINGTON  
I - 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I - POST TOP RECEPTACLE

P440  
8743006  
I - 9X14 FM PED

P325  
8742812  
I - 16 FT BLACK WASHINGTON  
I - 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I - POST TOP RECEPTACLE

P441  
8742999  
I - 9X14 FM PED

P326  
8742809  
I - 16 FT BLACK WASHINGTON  
I - 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I - POST TOP RECEPTACLE

P442  
8742992  
I - 9X14 FM PED

P53  
8742932  
I - 16 FT BLACK WASHINGTON  
I - 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I - POST TOP RECEPTACLE

P443  
8742993  
I - 9X14 FM PED

P47  
8742931  
I - 16 FT BLACK WASHINGTON  
I - 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I - POST TOP RECEPTACLE

P434  
8743000  
I - 9X14 FM PED

P520  
8745951  
I - 16 FT BLACK WASHINGTON  
I - 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I - POST TOP RECEPTACLE

P525  
8745943  
I - 9X14 FM PED

P521  
8745949  
I - 16 FT BLACK WASHINGTON  
I - 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I - POST TOP RECEPTACLE

P526  
8745944  
I - 9X14 FM PED

P522  
8745946  
I - 16 FT BLACK WASHINGTON  
I - 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I - POST TOP RECEPTACLE

P527  
8745945  
I - 9X14 FM PED

**CONSTRUCTION PRINT PAGE 3 ANNOTATIONS (CONTINUED)**

P523  
8745947  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE  
  
P528  
8745940  
I – 9X14 FM PED

P524  
8745948  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P529  
8745941  
I – 9X14 FM PED

P58  
8742864  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P447  
8742997  
I – 9X14 FM PED

**CONSTRUCTION PRINT PAGE 4 ANNOTATIONS**

P331  
8742808  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P444  
8742990  
I – 9X14 FM PED

P332  
8742803  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P445  
8742991  
I – 9X14 FM PED

P333  
8742802  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P446  
8742994  
I – 9X14 FM PED

P63  
8742863  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P451  
8743048  
I – 9X14 FM PED

P337  
8742806  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P452  
8743067  
I – 9X14 FM PED

P338  
8742817  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P453  
8743068  
I – 9X14 FM PED

P339  
8742829  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P454  
8743065  
I – 9X14 FM PED

P340  
8742830  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P455  
873066  
I – 9X14 FM PED

P341  
8742827  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P456  
8743069  
I – 9X14 FM PED

P334  
8742804  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P448  
8742998  
I – 9X14 FM PED

P335  
8742805  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P449  
8742995  
I – 9X14 FM PED

P336  
8742807  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P450  
8742996  
I – 9X14 FM PED

P71  
8742866  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P460  
8743071  
I – 9X14 FM PED

P345  
8742831  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P461  
8743064  
I – 9X14 FM PED

P346  
8742832  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P462  
8743057  
I – 9X14 FM PED

P347  
8742826  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P463  
8743058  
I – 9X14 FM PED

P348  
8742820  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P464  
8743055  
I – 9X14 FM PED

**CONSTRUCTION PRINT PAGE 5 ANNOTATIONS**

P342  
8742828  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P457  
8743072  
I – 9X14 FM PED

P343  
8742833  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P458  
8743073  
I – 9X14 FM PED

P344  
8742834  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P459  
8743070  
I – 9X14 FM PED

P78  
8742865  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P468  
8743063  
I – 9X14 FM PED

P352  
8742824  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P469  
8743060  
I – 9X14 FM PED

**CONSTRUCTION PRINT PAGE 5 ANNOTATIONS (CONTINUED)**

P353  
8742825  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P470  
8743061  
I – 9X14 FM PED

P354  
8742822  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P471  
8743086  
I – 9X14 FM PED

P349  
8742821  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P465  
8743056  
I – 9X14 FM PED

P350  
8742818  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P466  
8743059  
I – 9X14 FM PED

P351  
8742819  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P467  
8743062  
I – 9X14 FM PED

P84  
8742861  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P479  
8743089  
I – 9X14 FM PED

P357  
8742890  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P480  
8743076  
I – 9X14 FM PED

P358  
8742887  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P481  
8743077  
I – 9X14 FM PED

**CONSTRUCTION PRINT PAGE 6 ANNOTATIONS**

P355  
8742823  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P472  
8743087  
I – 9X14 FM PED

P356  
8742889  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P473  
8743085  
I – 9X14 FM PED

P89  
8742860  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P474  
8743083  
I – 9X14 FM PED

P360  
8742893  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P475  
8743084  
I – 9X14 FM PED

P361  
8742894  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P476  
8743088  
I – 9X14 FM PED

P359  
8742888  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P482  
8743074  
I – 9X14 FM PED

P362  
8742891  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P478  
8743090  
I – 9X14 FM PED

P363  
8742892  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P477  
8743091  
I – 9X14 FM PED

**CONSTRUCTION PRINT PAGE 7 ANNOTATIONS**

P108  
8742862  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE  
**\*\*\*SET POLE IN CONCRETE\*\*\***

P420  
8742974  
I – 10X15 POLYCRETE PED  
**\*\*\*SET PED IN CONCRETE\*\*\***

P109  
8742851  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE  
**\*\*\*SET POLE IN CONCRETE\*\*\***

P421  
8742971  
I – 10X15 POLYCRETE PED  
**\*\*\*SET PED IN CONCRETE\*\*\***

P110  
8742840  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P483  
8743075  
I – 9X14 FM PED

P111  
8742839  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P484  
8743078  
I – 9X14 FM PED

P424  
8742867  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P485  
8743081  
I – 9X14 FM PED

P423  
8742869  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE  
**\*\*\*SET POLE IN CONCRETE\*\*\***

P426  
8742975  
I – 10X15 POLYCRETE PED  
**\*\*\*SET PED IN CONCRETE\*\*\***

P422  
8742875  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE  
**\*\*\*SET POLE IN CONCRETE\*\*\***

P425  
8742972  
I – 10X15 POLYCRETE PED  
**\*\*\*SET PED IN CONCRETE\*\*\***

P98  
OLD TAG: 4804734  
NEW TAG: 8742945  
R – 40-5 WOOD  
I – 35-5 WOOD  
I – SECONDARY RISER

**CONSTRUCTION PRINT PAGE 7 ANNOTATIONS (CONTINUED)**

P99  
8743020  
I – 9X14 AG PED

P376  
8742905  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P519  
8745695  
I – 9X14 FM PED

P377  
8742910  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P487  
8743079  
I – 9X14 FM PED

P378  
8742911  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P489  
8743054  
I – 9X14 FM PED

P141  
8742843  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P252  
8743044  
I – 9X14 FM PED

P364  
8742886  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P486  
8743082  
I – 9X14 FM PED

P365  
8742880  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P488  
8743080  
I – 9X14 FM PED

P366  
8742881  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P490  
8743051  
I – 9X14 FM PED

**CONSTRUCTION PRINT PAGE 8 ANNOTATIONS**

P379  
8742908  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P491  
8743052  
I – 9X14 FM PED

P380  
8742909  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P493  
8743050  
I – 9X14 FM PED

P381  
8742903  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P496  
8742949  
I – 9X14 FM PED

P382  
8742897  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P498  
8742953  
I – 9X14 FM PED

P383  
8742898  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P500  
8742951  
I – 9X14 FM PED

P384  
8742895  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P502  
8742966  
I – 9X14 FM PED

P385  
8742896  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P504  
8742964  
I – 9X14 FM PED

P386  
8742901  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P506  
8742970  
I – 9X14 FM PED

P387  
8742902  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P508  
8742968  
I – 9X14 FM PED

P429  
8742868  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P509  
8742962  
I – 9X14 FM PED

P367  
8742878  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P492  
8743049  
I – 9X14 FM PED

P368  
8742879  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P494  
8743053  
I – 9X14 FM PED

P369  
8742884  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P495  
8742948  
I – 9X14 FM PED

P370  
8742885  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P497  
8742952  
I – 9X14 FM PED

P371  
8742882  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P499  
8742950  
I – 9X14 FM PED

P372  
8742883  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P501  
8742965  
I – 9X14 FM PED

P373  
8742906  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P503  
8742963  
I – 9X14 FM PED

P374  
8742907  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P505  
8742969  
I – 9X14 FM PED

**CONSTRUCTION PRINT PAGE 8 ANNOTATIONS (CONTINUED)**

P375  
8742904  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P507  
8742967  
I – 9X14 FM PED

P157  
8742844  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P314  
8742987  
I – 9X14 FM PED

P396  
8742874  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P516  
8742958  
I – 9X14 FM PED

P167  
8742855  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P517  
8742959  
I – 9X14 FM PED

P390  
8742872  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE  
**\*\*SET POLE IN CONCRETE\*\***

P427  
8742978  
I – 10X15 POLYCRETE PED  
**\*\*SET PED IN CONCRETE\*\***

P391  
8742873  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE  
**\*\*SET POLE IN CONCRETE\*\***

P428  
8742979  
I – 10X15 POLYCRETE PED  
**\*\*SET PED IN CONCRETE\*\***

P388  
8742899  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P510  
8742956  
I – 9X14 FM PED

P389  
8742900  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P512  
8742954  
I – 9X14 FM PED

P161  
8742849  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P271  
8743036  
I – 9X14 FM PED

P162  
8742850  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P272  
8743037  
I – 9X14 FM PED

P164  
8742847  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P273  
8743034  
I – 9X14 FM PED

P165  
8742848  
I – 16 FT BLACK WASHINGTON  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P274  
8743035  
I – 9X14 FM PED

**CONSTRUCTION PRINT PAGE 10 ANNOTATIONS**

P399  
8058698  
E – 16 FT BLACK WASHINGTON  
R – 100W HPS MONTICELLO  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P400  
8058699  
E – 16 FT BLACK WASHINGTON  
R – 100W HPS MONTICELLO  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P401  
8058690  
E – 16 FT BLACK WASHINGTON  
R – 100W HPS MONTICELLO  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P402  
8058700  
E – 16 FT BLACK WASHINGTON  
R – 100W HPS MONTICELLO  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P403  
8058691  
E – 16 FT BLACK WASHINGTON  
R – 100W HPS MONTICELLO  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P405  
8058692  
E – 16 FT BLACK WASHINGTON  
R – 100W HPS MONTICELLO  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P406  
8058702  
E – 16 FT BLACK WASHINGTON  
R – 100W HPS MONTICELLO  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P407  
8058693  
E – 16 FT BLACK WASHINGTON  
R – 100W HPS MONTICELLO  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P408  
8058703  
E – 16 FT BLACK WASHINGTON  
R – 100W HPS MONTICELLO  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P409  
8058694  
E – 16 FT BLACK WASHINGTON  
R – 100W HPS MONTICELLO  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P410  
8058704  
E – 16 FT BLACK WASHINGTON  
R – 100W HPS MONTICELLO  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P411  
8058695  
E – 16 FT BLACK WASHINGTON  
R – 100W HPS MONTICELLO  
I – 50W LED MITCHELL TOP HAT W/  
RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

**CONSTRUCTION PRINT PAGE 10 ANNOTATIONS (CONTINUED)**

P412  
8058696  
E – 16 FT BLACK WASHINGTON  
R – 100W HPS MONTICELLO  
I – 50W LED MITCHELL TOP HAT W/  
    RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P413  
8058697  
E – 16 FT BLACK WASHINGTON  
R – 100W HPS MONTICELLO  
I – 50W LED MITCHELL TOP HAT W/  
    RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P414  
8058708  
E – 16 FT BLACK WASHINGTON  
R – 100W HPS MONTICELLO  
I – 50W LED MITCHELL TOP HAT W/  
    RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P415  
8058705  
E – 16 FT BLACK WASHINGTON  
R – 100W HPS MONTICELLO  
I – 50W LED MITCHELL TOP HAT W/  
    RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P416  
8058707  
E – 16 FT BLACK WASHINGTON  
R – 100W HPS MONTICELLO  
I – 50W LED MITCHELL TOP HAT W/  
    RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

P417  
8058706  
E – 16 FT BLACK WASHINGTON  
R – 100W HPS MONTICELLO  
I – 50W LED MITCHELL TOP HAT W/  
    RIBS, BANDS, MEDALLIONS  
I – POST TOP RECEPTACLE

**PROJECT TOTAL CABLE FOOTAGE:** 8988.00

<b>CABLE FROM FIRST SOURCE</b>	
SPAN	LENGTH (FT)
S1	65.00
S2	52.00
S3	60.00
S4	65.00
S5	60.00
S6	56.00
S7	56.00
S8	56.00
S9	56.00
S10	42.00
S11	70.00
S12	81.00
S13	60.00
S14	57.00
S15	54.00
S16	49.00
S17	68.00
S18	48.00
<b>TOTAL</b>	<b>1055.00</b>

<b>CABLE FROM SECOND SOURCE</b>	
SPAN	LENGTH (FT)
S19	40.00
S20	52.00
S21	51.00
S22	55.00
S168	10.00
S169	37.00
S170	83.00
S171	81.00
S268	48.00
S269	103.00
S29	60.00
S30	60.00
S31	65.00
S32	61.00
S33	63.00
S34	52.00
S35	50.00
<b>TOTAL</b>	<b>971.00</b>

<b>CABLE FROM THIRD SOURCE</b>	
<i>NORTH SIDE</i>	
SPAN	LENGTH (FT)
S36	130
S174	61
S175	60
S176	60
S177	60
S185	140
S182	112
S183	50
S184	83
S190	50
S192	46
S193	55
S194	57
S195	51
S196	62
S197	54
S198	53
S199	41
S200	114
S209	78
S10	53
S211	60
S212	65
S213	37
S217	60
S218	54
S219	121
<b>TOTAL</b>	<b>1867</b>

<b>CABLE FROM THIRD SOURCE</b>	
<i>SOUTH SIDE</i>	
SPAN	LENGTH (FT)
S42	86
S270	52
S271	60
S272	84
S273	73
S274	48
S275	72
S187	73
S188	65
S189	90
S191	84
S201	42
S202	43
S203	64
S204	68
S205	56
S206	57
S207	55
S208	87
S214	52
S215	53
S216	65
S267	245
S220	237
S221	71
S102	60
S103	72
S104	60
<b>TOTAL</b>	<b>2174</b>

<b>CABLE FROM FOURTH SOURCE</b>	
<i>EAST SIDE</i>	
SPAN	LENGTH
S262	51
S261	54
S260	72
S234	20
S235	60
S236	60
S237	61
S238	60
S239	57
S240	61
S241	61
S242	50
S243	65
S244	90
S245	57
S264	57
S263	73
S250	48
S251	60
S252	65
S253	50
S266	65
S248	60
S249	60
<b>TOTAL</b>	<b>1417</b>

<b>CABLE FROM FOURTH SOURCE</b>	
<i>WEST SIDE</i>	
SPAN	LENGTH
S134	130
S222	50
S223	80
S224	43
S225	80
S226	37
S227	56
S228	63
S229	62
S230	61
S231	45
S232	75
S233	90
S254	83
S246	54
S247	70
S265	180
S155	57
S164	60
S158	70
S159	58
<b>TOTAL</b>	<b>1504</b>

### **600V UNDERGROUND ALUMINUM CABLE**

600V UNDERGROUND ALUMINUM CABLES ARE COMPRISED OF TWO LAYERS, THE CONDUCTOR AND INSULATION. DUKE ENERGY RECEIVES THESE CABLES IN SINGLE CABLE FORM AS WELL AS DUPLEX, TRIPLEX, QUADRUPLEX AND CABLE IN CONDUIT FOR CERTAIN WIRE SIZES. FOR MOST TRIPLEX AND QUADRUPLEX CABLES, THE NEUTRAL WIRE IS SIZED DIFFERENTLY THAN THE LOAD WIRES, AS THE NEUTRAL'S RESPONSIBILITY IS TO CARRY ONLY THE IMBALANCE AMONG THE PHASE WIRES RATHER THAN THE FULL LOAD CURRENT. IMAGES OF THE VARIOUS TYPES OF 600V CONDUCTORS ARE SHOWN BELOW.



#### **CONDUCTOR**

THE ALUMINUM CONDUCTOR USED IN DUKE ENERGY'S 600V CABLE IS A STRANDED, RATHER THAN SOLID, CONDUCTOR. THE STRANDING OF CONDUCTORS IS THE FORMATION OF SOLID INDIVIDUAL WIRE STRANDS INTO A COMPOSITE CONSTRUCTION TO ACHIEVE A SPECIFIED CROSS-SECTIONAL AREA. THE NUMBER OF STRANDS IS USUALLY BASED ON A GEOMETRIC PROGRESSION OF SINGLE STRAND LAYERS (1, 6, 12, 18 ETC). FOR EXAMPLE, A 19-STRAND CONDUCTOR WOULD BE COMPOSED OF 3 LAYERS WITH 1, 6, AND 12 STRANDS IN EACH RESPECTIVE LAYER.

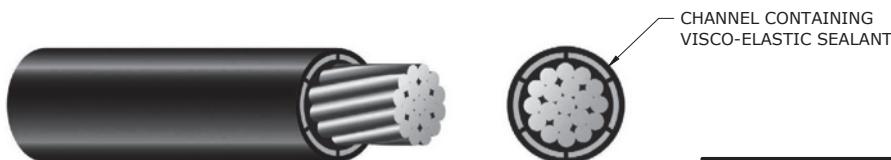
THE NUMBER OF STRANDS IN CONDUCTORS OF THE SAME SIZE CAN DIFFER, HOWEVER, DUE TO A MANUFACTURING TECHNIQUE CALLED SINGLE INPUT WIRE (SIW). THE INDIVIDUAL STRANDS WITHIN A SIW CABLE ALL HAVE THE SAME SIZE BUT CAN VARY IN SHAPE (THEY CAN BE TRAPEZOIDAL, PIE SHAPED, OR HEMISPHERES VERSUS ROUND, FOR EXAMPLE). THE NET RESULT OF THIS TECHNIQUE IS THAT USUALLY FEWER WIRES ARE NEEDED TO ACHIEVE THE SAME CROSS SECTIONAL AREA THAT IS REQUIRED.

SECONDARY ALUMINUM CONDUCTORS DO NOT HAVE THE SAME STRAND FILL COMPOUND USED IN PRIMARY CABLES.

#### **INSULATION**

THE BASIC INSULATION USED FOR THESE CABLES IS CROSS-LINKED POLYETHYLENE (XLPE). WITH THE EXCEPTION OF THE TRIPLEX CABLES IN CONDUIT, ALL ALUMINUM SECONDARY CONDUCTORS USE AN ABUSE RESISTANT INSULATION THAT IS ACTUALLY COMPOSED OF TWO LAYERS. THE INNER LAYER IS A LOW DENSITY CROSSLINKED POLYETHYLENE AND THE OUTER LAYER MATERIAL IS A HIGH DENSITY CROSSLINKED POLYETHYLENE.

SOME CABLES AS IDENTIFIED ON DWG 23.02-103 HAVE A SELF-HEALING CAPABILITY. BETWEEN THE INNER AND OUTER LAYERS OF CROSSLINKED POLYETHYLENE ARE A MINIMUM OF 6 CHANNELS CONTAINING A VISCO-ELASTIC SEALANT. THIS SEALANT, IN THE EVENT OF A NICK OR SMALL BREAK IN THE INSULATION, WILL Ooze TO THE SURFACE AND ESSENTIALLY REPAIR, OR SELF-HEAL, ITSELF. THE CHANNELS AND CONSTRUCTION OF THIS CABLE CAN BE SEEN IN THE FIGURE BELOW.



3				
2				
1				
0	12/31/15	EANES	FLETCHER	ADCOCK
REVISED	BY	CK'D	APPR.	

600V UG ALUMINUM CABLE DESIGN

DEC	DEM	DEP	DEF
X	X	X	X
23.02-101			

3					
2					
1					
0	11/13/17	FLETCHER	EANES	ADCOCK	
REVISED	BY	CHK'D	APPR.		

### 600V ALUMINUM CABLE PHYSICAL DATA

GENERAL INFORMATION		PHASE INFORMATION			NEUTRAL INFORMATION			OVERALL BUNDLED CABLE AREA (SQ. IN.)	APPROX. WEIGHT (LB./1000 FT.)	MIN. BENDING RADIUS (IN.)	MAX. TENSION (LBS.)	MAX. SIDEWALL BEARING PRESSURE (LBS.)
CONDUCTOR SIZE	ITEM NUMBER	NUMBER STRANDS	METALLIC CONDUCTOR DIAMETER (IN.)	OVERALL INDIVIDUAL CABLE DIAMETER(S) (IN.)	METALLIC CONDUCTOR DIAMETER (IN.)	INSULATION THICKNESS (IN.)	INDIVIDUAL CABLE DIAMETER(S) (IN.)					
<b>SINGLE CABLE</b>												
4/0 AWG	4003569	18	0.498	0.080	0.658	NA	NA	NA	NA	NA	263	2.6
#6 - #6	50124380	7	0.178	0.080	0.338	7	0.178	0.080	0.338	0.676	0.18	104
<b>DUPLEX CABLE</b>												
<b>TRIPLEX CABLE</b>												
#2 - #2 - #4	4153154	7	0.283	0.060	0.403	7	0.253	0.060	0.375	0.370	0.37	249
2/0 - 2/0 - #2	4022212	11	0.395	0.080	0.555	7	0.283	0.080	0.443	1.199	0.64	454
4/0 - 4/0 - 1/0	4205638	18	0.498	0.080	0.658	9	0.352	0.080	0.512	1.421	0.89	678
350 - 350 - 4/0	4022215	30	0.641	0.095	0.831	18	0.498	0.080	0.658	1.795	1.42	1118
500 - 500 - 350	4153173	37	0.789	0.095	0.979	30	0.641	0.095	0.831	2.115	2.05	1598

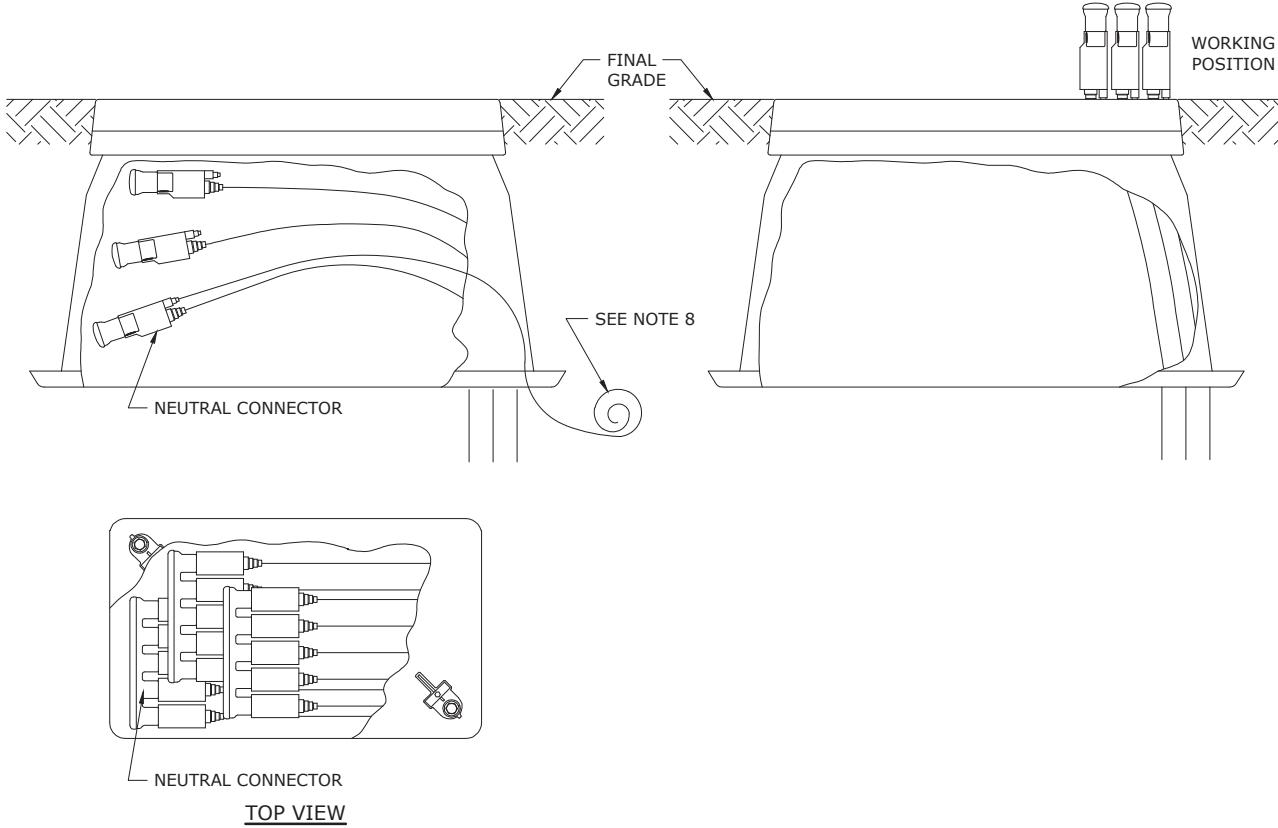
DEC	DEM	DEP	DEF
			X
23.02-105			



GENERAL INFORMATION		ELECTRICAL PROPERTIES					
CONDUCTOR SIZE	ITEM NUMBER	PHASE DC RESISTANCE @ 20° C (OHMS/1000 FT.)	PHASE AC RESISTANCE @ 90° C (OHMS/1000 FT.)	REACTANCE (OHMS/1000 FT.)	IMPEDANCE (OHMS/1000 FT.)	CAPACITANCE (picoFARADS/FT.)	SUSCEPTANCE (SIEMENS/1000 FT.)
SINGLE CABLE							
4/0 AWG	4003569	0.0820	0.1049	0.4884	0.4952	0.3041	114.66
DUPLEX CABLE							
#6 - #6	50124380	0.6676	0.8535	0.0351	0.6685	0.1321	49.81
TRIPLEX CABLE							
#2 - #2 - #4	4158154	0.2636	0.3375	0.0314	0.2655	0.2397	90.37
2/0 - 2/0 - #2	4022212	0.1313	0.1684	0.0308	0.1349	0.2492	93.93
4/0 - 4/0 - 1/0	4205638	0.0828	0.1059	0.0288	0.0877	0.3041	114.66
350 - 350 - 4/0	4022215	0.0500	0.0641	0.0281	0.0574	0.3264	123.05
500 - 500 - 350	4158173	0.0350	0.0450	0.0270	0.0442	0.3927	148.05



3					600V ALUMINUM CABLE ELECTRICAL DATA	DEC	DEM	DEP	DEF
2									
1									X
0	11/13/17	FLETCHER	EANES	ADCOCK					
REVISED	BY	CHK'D	APPR.			23.02-107			



NOTES:

1. SOIL BENEATH THE PEDESTAL BASE SHALL BE COMPACTED TO THE FIRMNESS OF UNDISTURBED EARTH AND SHALL BE FREE OF ROOTS AND OTHER ORGANIC MATERIAL.
2. IN ORDER TO MINIMIZE SIDEWALL DEFORMATION, INSTALL PEDESTAL COVER BEFORE BACKFILLING AND TAMPING.
3. DO NOT FILL THE INSIDE OF THE PEDESTAL WITH BACKFILL.
4. PEDESTAL OR PULLBOX COVER SHALL BE INSTALLED FLUSH WITH FINAL GRADE.

FOR SECONDARY ONLY PEDESTALS (THIS DOES NOT APPLY TO THE PULLBOXES WITH A 30" DEPTH):

5. DIRECT BURIED SECONDARY CABLES AND SERVICES SHALL ENTER THE PEDESTAL WITHIN 5" OF EITHER END OF THE BASE.
6. TRAIN CABLES TO THE POSITION SHOWN ABOVE. VERIFY THAT THE CABLE MAY BE BENT OVER TO A POSITION BENEATH THE PEDESTAL COVER, BUT STILL TO AN UPRIGHT POSITION. TAP THE CABLES TO THE CONNECTOR AS DESCRIBED IN DWG. 25.02-113.
7. INSTALL THE NEUTRAL CONNECTOR ON THE BOTTOM TO MAXIMIZE THE CABLE TRAINING.
8. FOR CABLE LOCATING PURPOSES, IF THE SERVICES WITHIN THE PEDESTAL WILL NOT BE ENERGIZED IMMEDIATELY, ATTACH A 3' PIECE OF #6 (SD) COPPER TO THE NEUTRAL CONNECTOR AND EXTEND OUTSIDE THE BOTTOM OF THE HANDBOLE. COIL ANY EXCESS BELOW GRADE.
9. SUBMERSIBLE CONNECTORS MUST BE USED IN THESE APPLICATIONS. REFER TO SECTION 25.07 FOR THOSE SELECTIONS.

FOR PULLBOXES WITH PRIMARY CONDUCTORS:

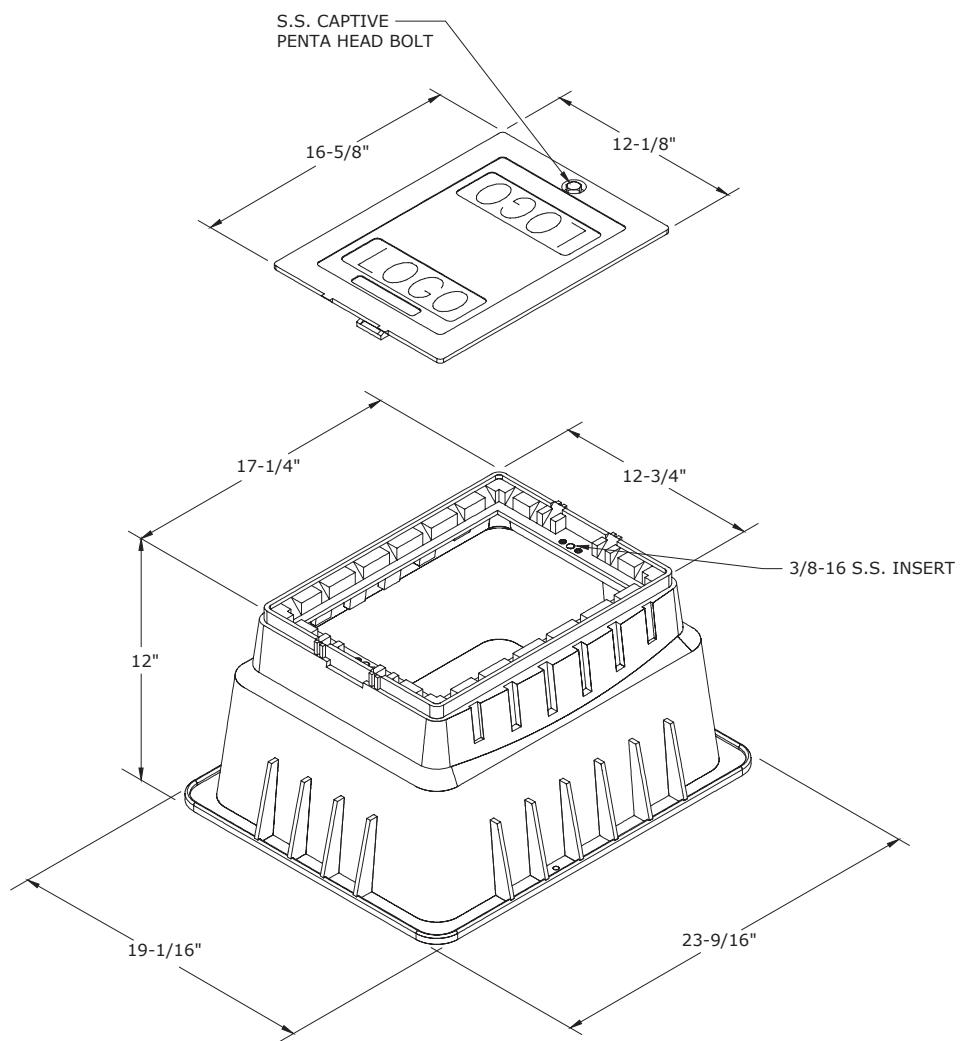
10. TO THE EXTENT IT IS FEASIBLE TO DO SO, PRIMARY CABLE THAT IS SPLICED WITHIN A PULLBOX SHOULD ENTER THE PULLBOX, LOOP AROUND THE INTERIOR PERIMETER OF THE BOX, AND BE SPLICED ALONG THE LONG WALL. THIS ALLOWS EXCESS CABLE IF SPLICES MUST BE REPAIRED OR REMOVED IN THE FUTURE. AVOID IF POSSIBLE SPLICING THE CABLE 'STRAIGHT THROUGH' THE PULLBOX.



3				
2				
1				
0	12/31/20	EANES	FLETCHER	GRAHAM
REVISED	BY	CHK'D	APPR.	

INSTALLING FLUSH-MOUNTED  
PEDESTALS AND PULLBOXES

DEC	DEM	DEP	DEF
X	X	X	X
25.06-103			



BILL OF MATERIALS					
COMPATIBLE UNIT DESCRIPTION	COMPATIBLE UNIT	CU QTY	ITEM NUMBER	ITEM QTY/ CU	DESCRIPTION
PEDESTAL HAND HOLE 9IN WIDE X 14IN LONG POLYMER	PED-HH-SM-POLY-F	1	4004629	1	BOX, ELECTRICAL, JUNCTION, 9" X 14" X 12" DP, PEDESTAL, F/ STREET LIGHT CONDUCTOR, FLUSH MOUNT/HANDHOLE

NOTES:

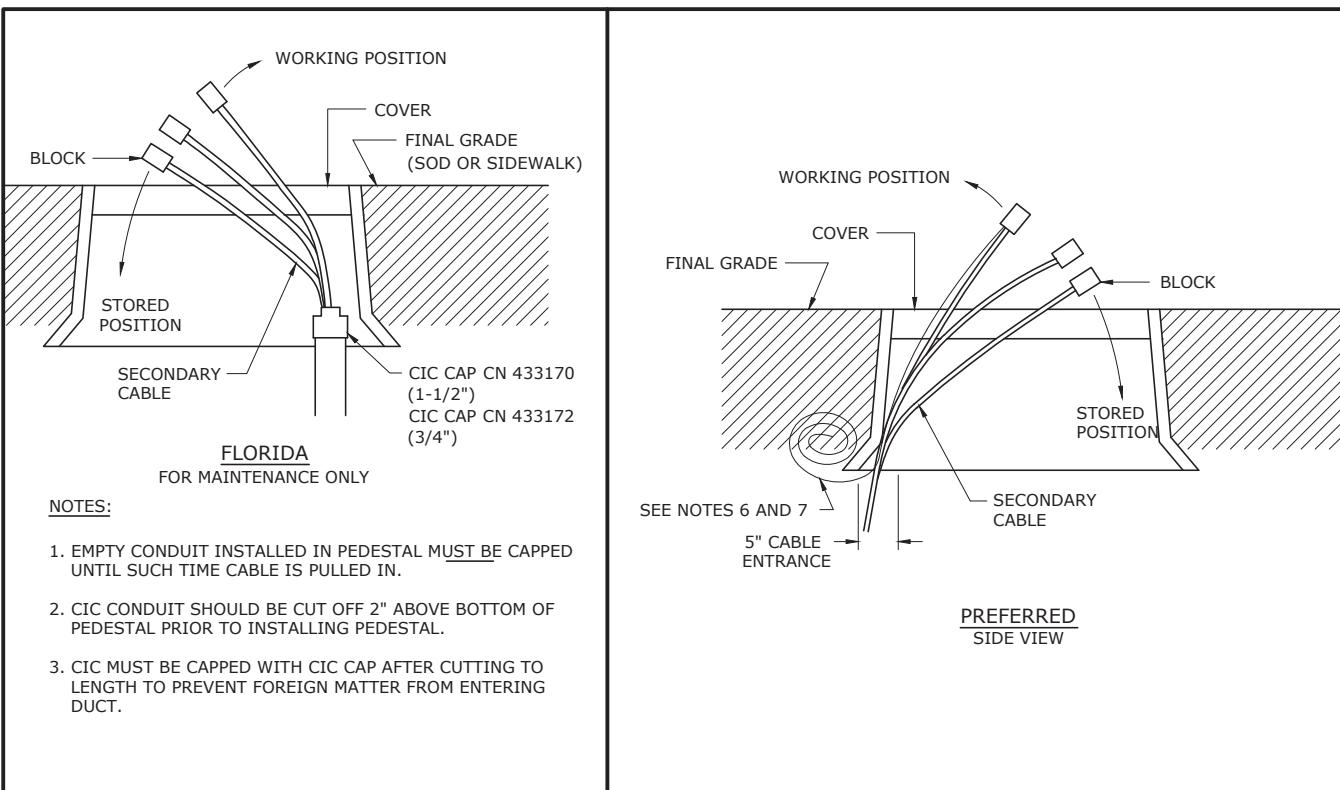
1. REFER TO DWGS. 25.06-101A AND 25.06-101B FOR INSTALLATION NOTES AND INFORMATION CONCERNING TIER RATINGS. THIS PEDESTAL DOES NOT HAVE A TIER RATING AND SHOULD NOT BE PLACED WHERE IT WILL BE SUBJECT TO TRAFFIC OF ANY KIND.
2. TRIPLEX CONDUCTORS ONLY, NONE LARGER THAN 4/0.
3. A MAXIMUM OF 4 SETS OF TRIPLEX ALLOWED, NO MORE THAN 2 OF WHICH CAN BE LARGER THAN #2.
4. SEE SECTION 25.07 FOR SUBMERSIBLE CONNECTOR OPTIONS. SUBMERSIBLE CONNECTORS ONLY CAN BE USED IN THIS PEDESTAL, NONE WITH MORE THAN 4 OUTLETS.
5. DEPENDING UPON THE APPLICATION, THERE MAY NOT BE A CONNECTOR OPTION THAT WILL HANDLE BOTH THE MAXIMUM CONDUCTOR SIZE AND THE MAXIMUM NUMBER OF SETS ALLOWED.
6. SINCE CONNECTIONS WITHIN THESE PEDESTALS MAY BE SUBMERGED, THE PREFERRED DESIGN ALTERNATIVES ARE THE ABOVE-GRADE PEDESTALS AND CONNECTORS FOUND IN SECTION 25.02.



3			
2			
1			
0	12/31/20	EANES	FLETCHER
		CHK'D	GRAHAM
REVISED	BY	APPR.	

SMALL FLUSH-MOUNTED PEDESTAL  
NON TIER RATED

DEC	DEM	DEP	DEF
			X
25.06-112			



FLUSH MOUNT HANHOLE WITH ELECTRONIC MARKER			
DESCRIPTION	COMPATIBLE UNIT	CATALOG NUMBER	MAXIMUM MULTIPLEX CABLES
9" X 14" X 12"	PEDFM9X14PF	320173	2 #4/0 & 1 #6 4 #2
12" X 20" X 17"			1 - 500, 2 #4/0 & 1 #6 4 #4/0 & 1 #6 6 #2/0
11" X 15" X 18"	PEDFM11X15X18PF	381612	SIDEWALKS, PAVED PEDESTRIAN AREAS (INCIDENTAL LIGHT TRAFFIC)
10" ROUND X 10"	PEDFM10X10RDPF	9220184254	2 #2 & 1 #6
9" X 14" REPLACEMENT LID	-	9220203005	-

**NOTES:**

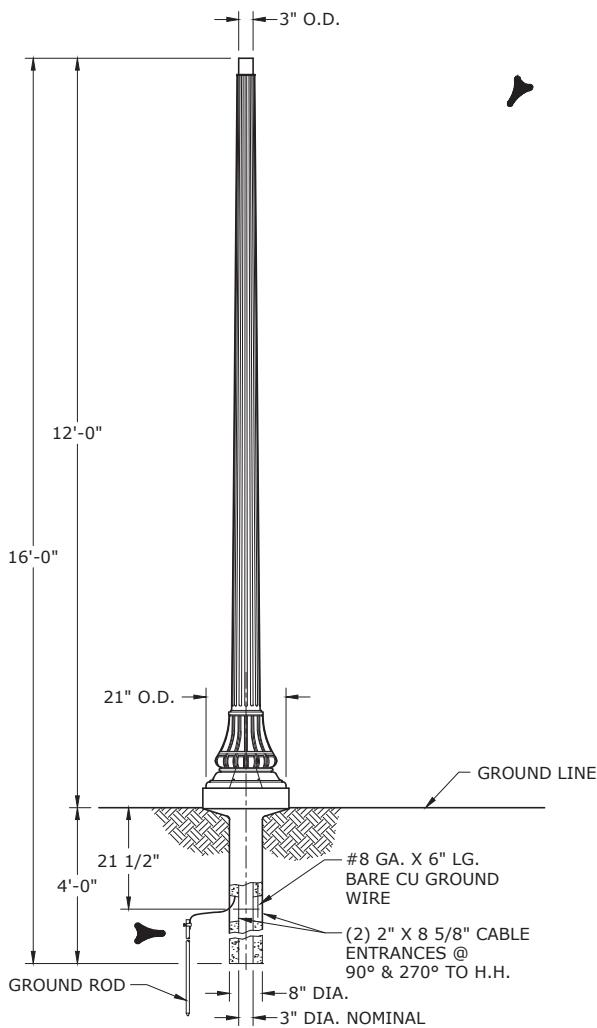
1. SOIL BENEATH PEDESTAL BASE SHALL BE COMPACTED TO THE FIRMNESS OF UNDISTURBED EARTH AND SHALL BE FREE OF ROOTS AND OTHER ORGANIC MATERIAL.
2. **IMPORTANT:** IN ORDER TO MINIMIZE SIDEWALL DEFORMATION, INSTALL COVER BEFORE BACKFILLING AND TAMPING.
3. SECONDARY AND SERVICES SHALL ENTER WITHIN 5" OF END OF BASE.
4. TRAIN CABLE TO POSITION SHOWN. ALL CABLES SHALL ENTER THE PEDESTAL AT ONE END. VERIFY THAT THE CABLE MAY BE BENT OVER TO A POSITION BENEATH THE PEDESTAL COVER, BUT STILL TO AN UPRIGHT POSITION.
5. **DO NOT FILL INSIDE WITH BACKFILL.**
6. FOR CABLE LOCATING PURPOSES ATTACH A 3' PIECE OF #6 (SD) COPPER TO THE NEUTRAL CONNECTOR AND EXTEND OUTSIDE THE BOTTOM OF THE HANHOLE EXITING THE END WHERE COVER BOLTING MECHANISM IS LOCATED. COIL EXCESS #6 BELOW GRADE.
7. REMOVE #6 BC WHEN THE FIRST SERVICE IS ESTABLISHED AT PEDESTAL.
8. ALL CONNECTORS IN FLUSH MOUNT OR BELOW GRADE APPLICATIONS **MUST BE** WATERPROOF TYPE.
9. ELECTRONIC MARKER IN LID.

3				
2				
1	6/21/13	DANNA	DANNA	ADCOCK
0	10/4/10	DANNA	GUINN	ELKINS
REVISED	BY	CK'D	APPR.	

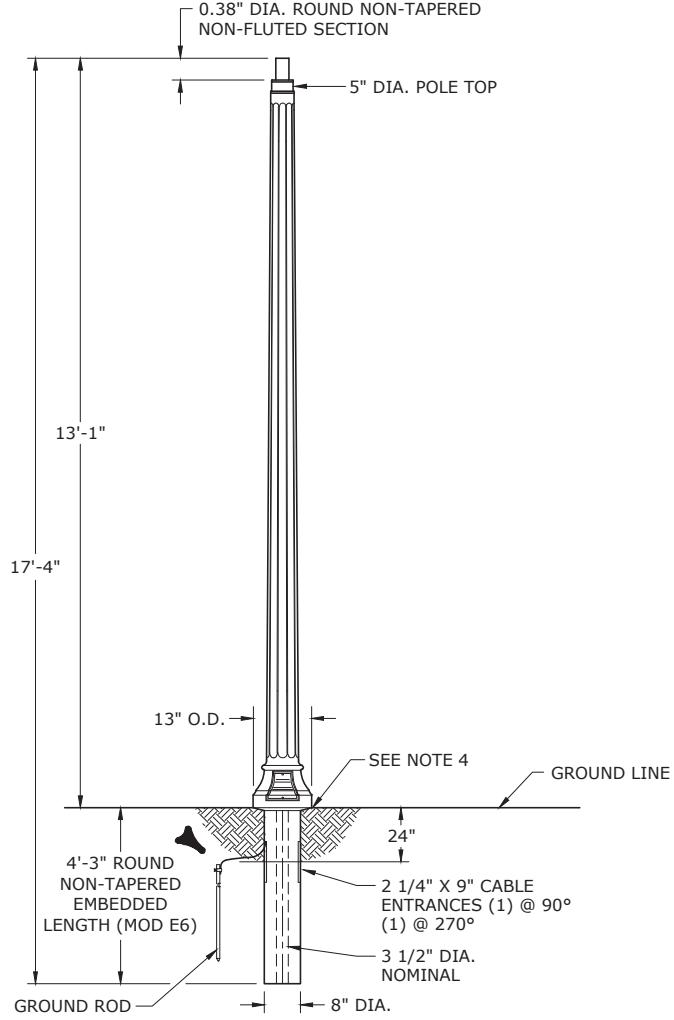
FLUSH MOUNT SECONDARY JUNCTION BOX

 DUKE ENERGY.

FLA DWG. 25.04-05



## WASHINGTON FLUTED DECORATIVE CONCRETE POLE



## VICTORIAN FLUTED DECORATIVE CONCRETE POLE

ITEM #	COLOR	WEIGHT (LBS)	COMPATIBLE UNIT
4001856	LT BLACK	740	LPOLE-WASD-CTE-16FT-LBLK-TT-F
4001859	BLACK	740	LPOLE-WASD-CTE-16FT-BLK-TT-F

ITEM #	COLOR	WEIGHT (LBS)	COMPATIBLE UNIT
4001854	GRAY	550	LPOLE-VIC-CTE-16FT-GRAY-TT-F
4169342	BLACK	550	LPOLE-VIC-CTE-16FT-BLK-TT-F

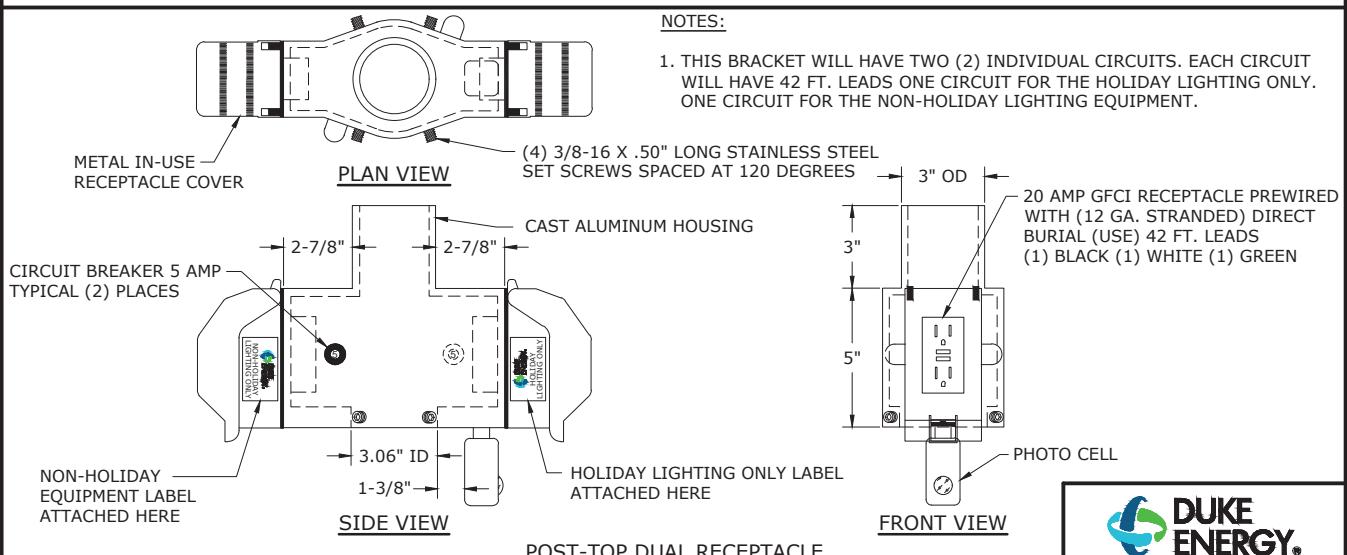
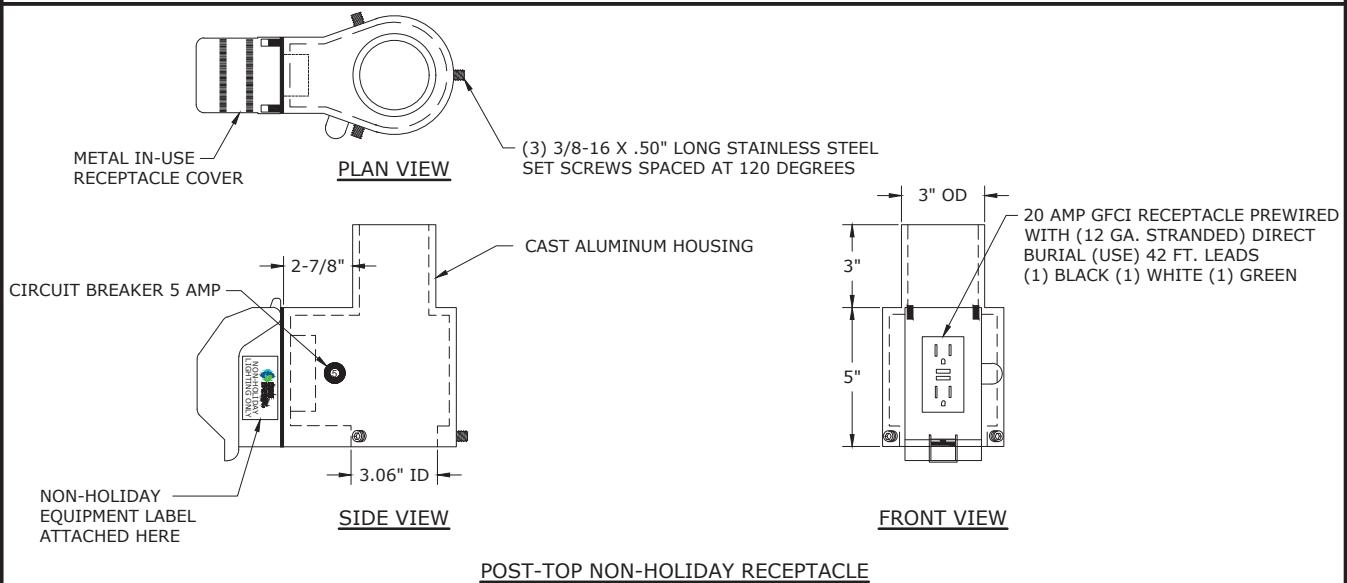
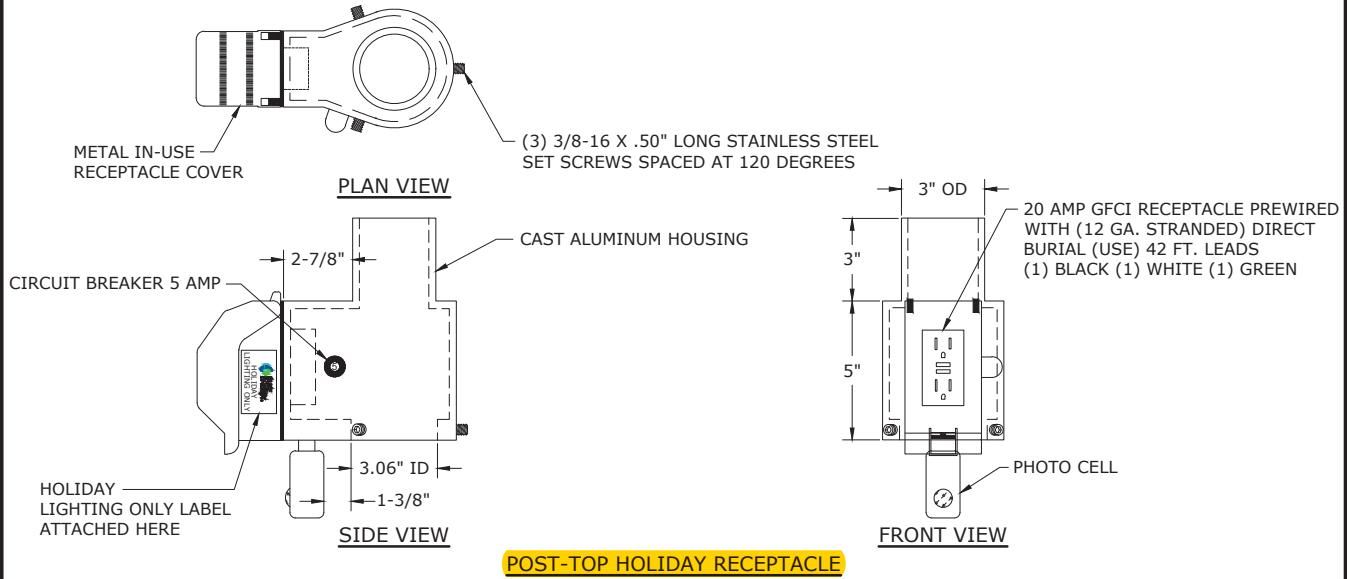
 NOTES:

1. THE FINISH ON THE POLES IS NATURAL EXPOSED FINISH WITH ANTI-GRAFFITI COATING.
  2. SEE DWG. 30.07-145 FOR USING THE PEDESTAL BOX.
  3. SEE SECTION 30.10 FOR COMPATIBLE RECEPTACLE DETAILS AND INSTALLATIONS..
  4. IF FINISHED GRADE CAN NOT BE DETERMINED, USE 4"-6" ABOVE ROUGH GRADE AS A GUIDE.
  5. SEE SECTIONS 02.03 AND 20.04 FOR JURISDICTIONAL SPECIFIC GROUNDING DETAILS AND ITEM NUMBERS.



3					DECORATIVE FLUTED CONCRETE LIGHTING POSTS	DEC	DEM	DEP	DEF
2	11/30/20	MITCHELL	SIMPKINS	BLOCKER					
1	10/2/20	MITCHELL	SIMPKINS	BLOCKER					X
0	9/17/19	SIMPKINS	BLOCKER	COWLING					
REVISED	BY	CHK'D	APPR.						30.09-129

RECEPTACLES FOR POST-TOP TENON POLES APPLICATION ONLY & CANNOT BE USED IN A DUAL BRACKET SCENARIO



DUKE ENERGY.

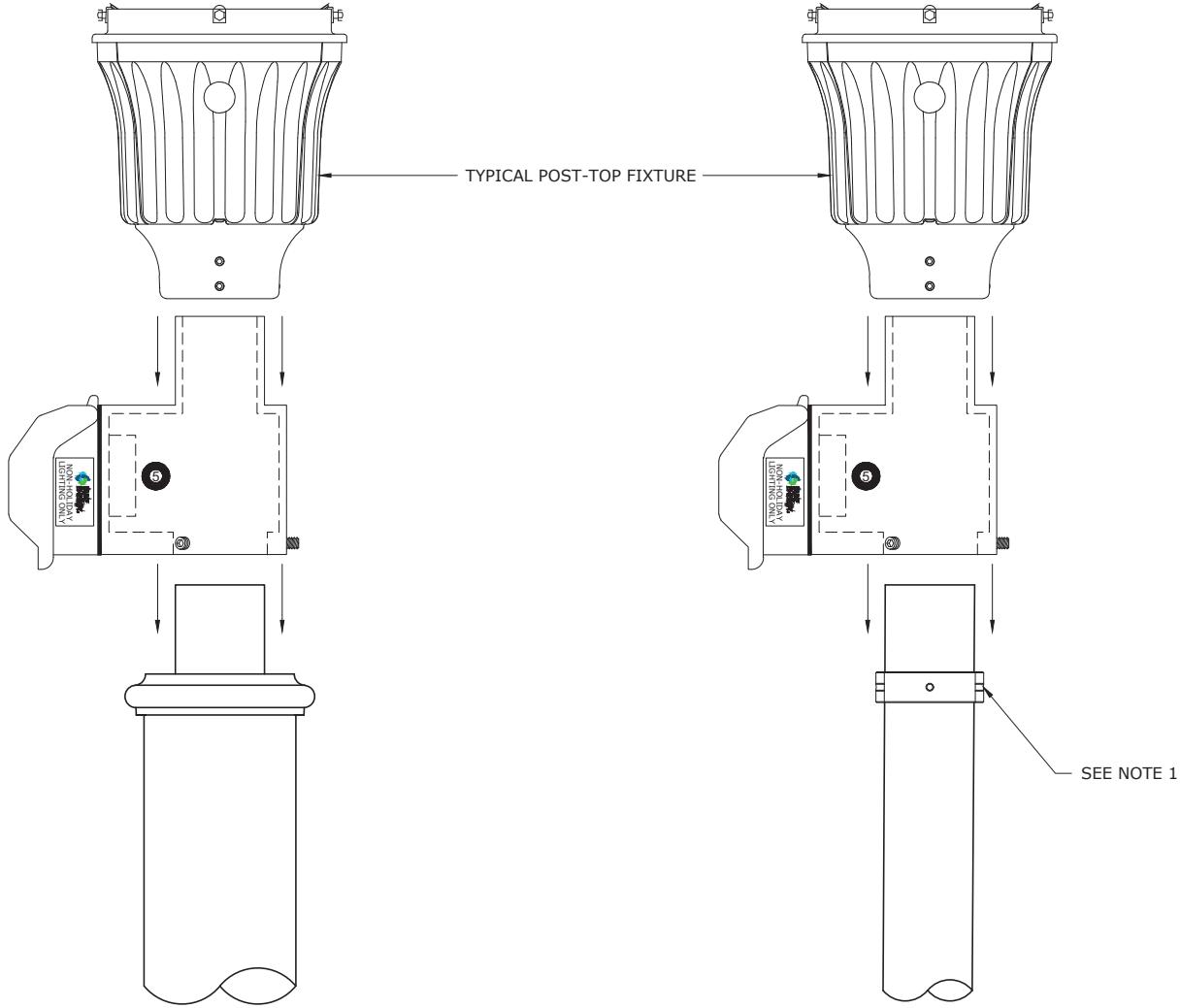
3			
2			
1			
0	11/30/20	MITCHELL	SIMPKINS
		BLOCKER	
REVISED	BY	CHK'D	APPR.

POST-TOP RECEPTACLES FOR BOTH SINGLE/DUAL,  
FOR HOLIDAY/NON-HOLIDAY RECEPTACLES

DEC DEM DEP DEF

X X X X

30.10-104A



\* NOT FOR USE WITH BRACKETED POST FIXTURE APPLICATIONS (TWIN BRACKETS, SHEPHERD'S CROOK BRACKETS, ETC.)

#### POST-TOP WITH RECEPTACLE

##### NOTES:

1. INSTALL SUPPORT RING 3" FROM TOP OF POLES WITHOUT TENON STOPS BEFORE INSTALLING RECEPTACLE SYSTEM. SEE DWG. 30.10-104D FOR RING COLOR DETAILS.
2. ROUTE WIRING DOWN POLE TO HANDHOLE OR FLUSH PEDESTAL AND MAKE CONNECTIONS.
3. INSTALL RECEPTACLE ON POST TENON.
4. INSTALL FIXTURE ON RECEPTACLE TENON.



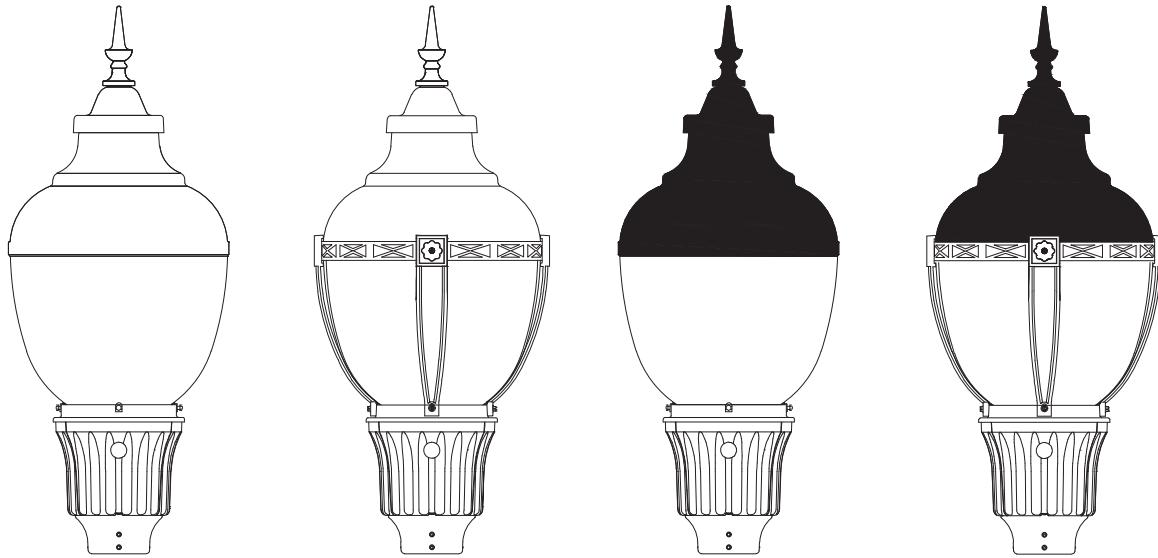
3				
2				
1				
0	11/30/20	MITCHELL	SIMPKINS	BLOCKER
REVISED	BY	CHK'D	APPR.	

#### POST-TOP RECEPTACLE INSTALLATION GUIDE

30.10-104B

DEC	DEM	DEP	DEF
-----	-----	-----	-----

X	X	X	X
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MITCHELL

NOTES:

1. GROUND TERMINAL (GREEN WIRE) **MUST** BE CONNECTED TO THE DRIVEN GROUND AND/OR THE SYSTEM NEUTRAL ON ALL LED LUMINAIRES, INCLUDING TWO WIRE 120V APPLICATIONS ON EXISTING POLES.
2. PHOTOCONTROL INCLUDED WITH THE CU.
3. LUMINAIRE MUST BE ORIENTED PROPERLY. AIM TO EITHER STREET SIDE OR HOUSE SIDE, DEPENDING ON PATTERN REQUIRED.
4. SEE DWGS. 30.07-150A AND 30.07-150B FOR WIRING TO SOURCE CONNECTIONS AND GROUNDING DETAILS.

3			
2			
1			
0	1/26/23	MITCHELL	SIMPKINS BLOCKER

LED MITCHELL FIXTURE COVER PAGE



DEC	DEM	DEP	DEF
X	X	X	X

30.08-548

REVISED

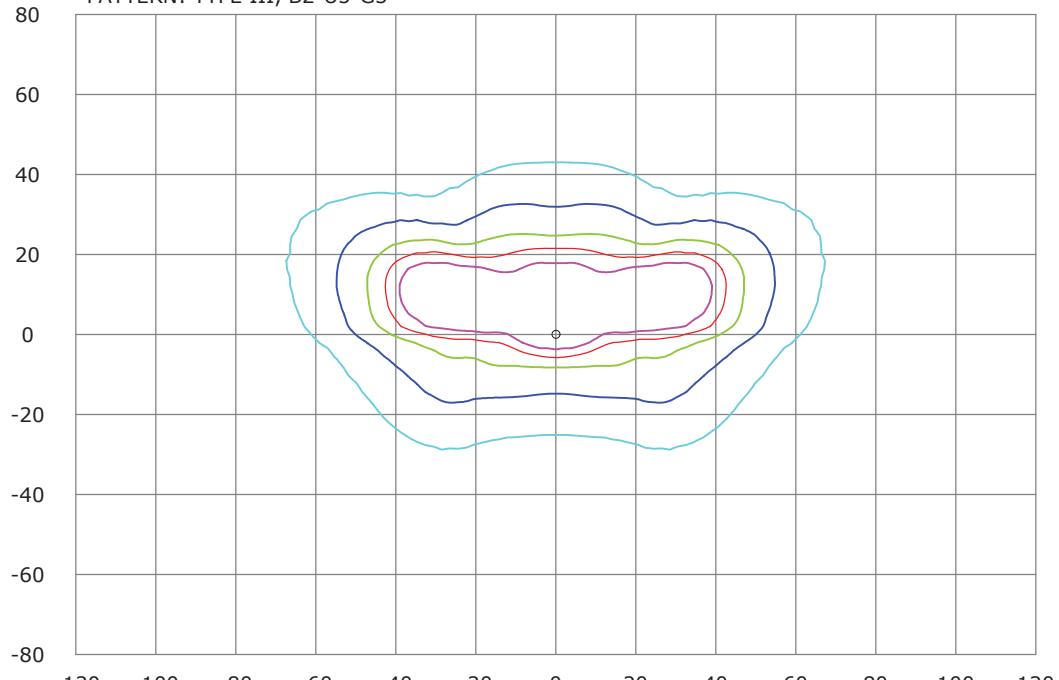
BY

CHK'D

APPR.

### **ISOFOOTCANDLE CURVES**

Fixture: LED 50W MITCHELL RBM  
Mounting Height: 12 FT  
Light Source: LED, 4000K - 80 CRI  
Lumens - 6097  
Pattern: TYPE III, B2-U5-G3



LEGEND (OUTER TO INNER): 0.10 , 0.25 , 0.50 , 0.75 , 1.00



3				
2				
1				
0	1/27/23	MITCHELL	SIMPKINS	BLOCKER
REVISED	BY	CHK'D	APPR.	

50W LED MITCHELL RBM, TYPE III,  
4000K 12FT MOUNTING HEIGHT IES FILE

30.08-558A

DEC DEM DEP DEF

X X X