

SHEET INDEX

SHEET # SHEET DESCRIPTION

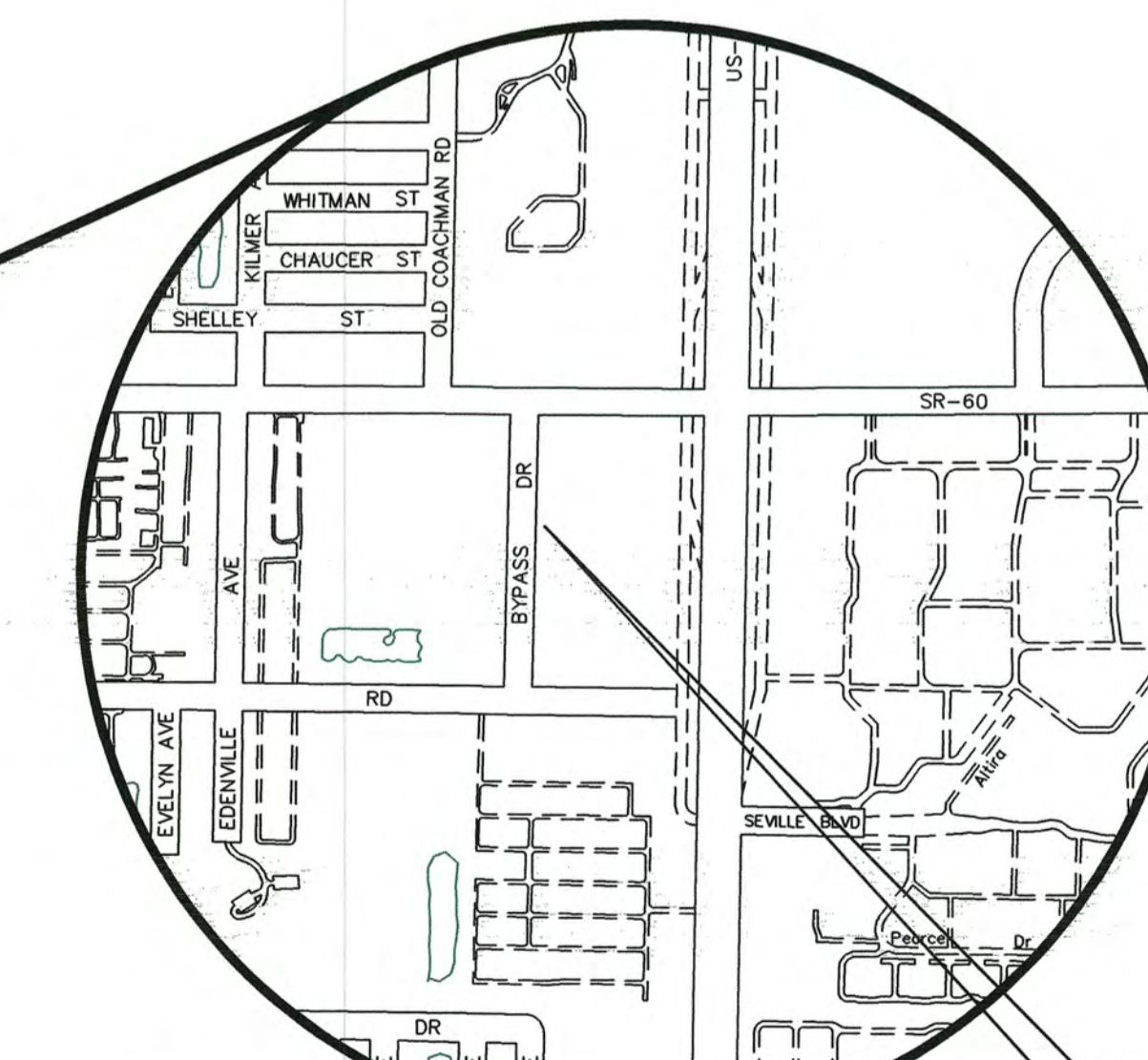
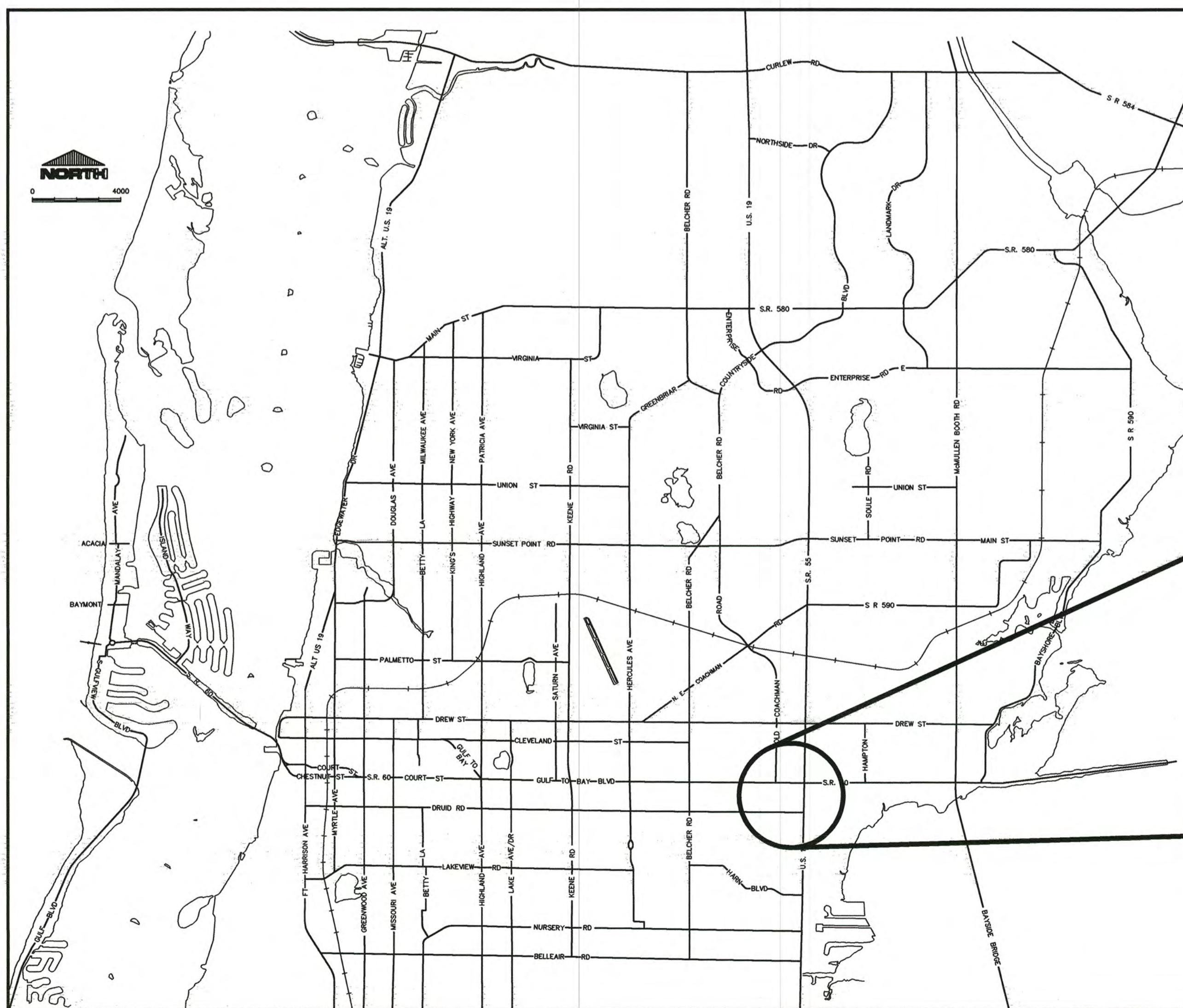
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CLEARWATER
BRIGHT AND BEAUTIFUL • BAY TO BEACH



Bypass Drive Improvements



CITY OFFICIALS

Frank Hibbard
Mark Bunker
Kathleen Beckman
David Allbritton
Hoyt Hamilton
William B. Horne II

Mayor
Councilmember
Councilmember
Councilmember
Councilmember
City Manager

Tara L. Kivett, P.E.
City Engineer

Approved For
Construction

Date Approved

Tara L. Kivett
CITY ENGINEER Tara L. Kivett, P.E. #8661
3/1/2021

100% BID PLANS
Contract No. 15-0021-EN
City Project No. 2015030

GENERAL NOTES

1. All work performed shall comply with the regulations and ordinances of the various governmental agencies having jurisdiction over the work.
2. All workmanship and materials used in the construction of this project shall conform to the latest City of Clearwater standards, contract documents and specifications unless otherwise noted.
3. Specific requirements of the Florida Department of Transportation (FDOT) "Design Standards" and "Standard Specifications for Road and Bridge Construction", most current editions, are incorporated into the contract documents by reference.
4. The Contractor shall obtain all required permits prior to construction.
5. The Contractor shall notify all utility companies at least forty eight (48) hours prior to start of construction, demolition and/or excavation in accordance with Florida Statutes.
6. The Contractor shall call Sunshine 811, previously known as Sunshine State One Call of Florida, at 1-800-432-4770 or 811, a minimum of two (2) days and a maximum of five (5) days prior to start of construction.
7. Locations, elevations and dimensions of existing utilities, structures and other features are shown according to the best information available at the time of the preparation of these plans, but do not purport to be absolutely correct. The Contractor shall verify the location, elevations and dimensions of all existing utilities, structures and other features affecting the work prior to construction.
8. The Contractor shall be responsible to review the site to determine existing conditions. Anything not shown on these plans shall be brought to the attention of the City's Engineering Representative and shall not constitute additional scope of work approved by the Engineer.
9. The Contractor shall contact the City's Engineering Representative immediately concerning any conflicts arising during construction.
10. All construction activities must conform to the local noise ordinance.
11. Hours of work shall be in accordance with the local governmental agency.
12. These drawings do not include necessary components for construction safety. The Contractor is solely responsible for construction safety. Special precautions may be required in the vicinity of power lines and other utilities.
13. The Contractor shall furnish, erect and maintain all necessary traffic control and safety devices in accordance with the U.S. Department of Transportation, "Manual on Uniform Traffic Control Devices" and the latest Florida Department of Transportation "Design Standards".
14. The Contractor shall provide, erect and maintain effective barricades, danger signals, signs and pedestrian detours in all areas where required for the protection of the work and the safety of the public.
15. Maintenance of Traffic (MOT): if it becomes necessary for the Contractor to close any street to through traffic within the limits of construction, access for local traffic with destination within the project limits of construction shall be maintained. If during construction, access for local traffic is changed, the property owners affected shall be given at least three (3) days advance notice. The Contractor shall submit to the City's Engineering Representative the Traffic Control Plan for approval prior to implementation.
16. A registered Land Surveyor, at the Contractor's expense, shall reset all section corners or property corners dislocated or disturbed by any construction related activities.
17. Any National Geodetic Survey (NGS) Monument within the limits of construction is to be protected. If in danger of damage, contractor shall notify the city's field representative immediately and contact the National Geodetic Survey information center.
18. Unless noted on the plans, final grade is to generally be the same as existing grade. Restore uniformly and for proper yard drainage grade toward roadway.
19. All new utilities shall be installed with the minimum thirty six (36) inches of cover.
20. Where utilities cross the lowest pipe shall be installed first.
21. The Contractor shall be responsible for testing of all newly constructed utilities in accordance with current standards of local jurisdiction. The Contractor shall notify the local jurisdiction and the Owner or an authorized representative at least forty eight (48) hours in advance of performing tests.
22. The Contractor shall provide all sheeting, shoring and bracing required to protect adjacent structures or to minimize trench width. Where a separate pay item is not provided, the cost of all sheeting and bracing required shall be included in the contract price for the item of work for which sheeting, shoring and bracing is anticipated to be required in accordance with local, state, or federal regulations for construction.
23. All concrete shall have a minimum compressive strength of 3,000 psi (28-day strength), unless otherwise noted on drawings.
24. No surfacing material is to be applied to any manhole covers, frames, valve boxes, gas drops, etc. All existing and proposed utility and storm sewer structures whose tops will be exposed within any paved area shall be adjusted so that the top surface of covers or frames shall be flush with the pavement surface.
25. Materials interfering with construction shall be disposed of as directed by the City's Engineering Representative, unless otherwise noted on plans.
26. All excess soil resulting from construction activities that is not claimed by the Owner shall become the property of the Contractor and disposed of by the Contractor.
27. All disturbed landscaped and/or grassed areas shall be restored uniformly and be generally at the same elevation as existing grades.
28. All disturbed areas shall be replaced within fifteen (15) days to a condition equal to or better than existing conditions.
29. All voids after placement of sod shall be filled with prepared soil mix. The sod shall be rolled to meet the proposed grades. Sod placed on slopes 3:1 or steeper shall be pegged.
30. Areas of exposed earth resulting from construction shall be sodded in kind as directed by the City's Engineering Representative unless otherwise noted on plans.
31. The Contractor shall maintain an accurate set of marked-up drawings (As-Builts) at the construction site.
32. A CCTV inspection of the new sewer system in digital format utilizing the industry standard Pipeline Assessment and Certification Program (PACP) coding system shall be provided to the City. The video shall be taken prior to placing the new sewer system into service. Data will be collected utilizing CUES Granite software.
33. Installation of gravity sewer pipe shall be in conformance with recommended practices contained in Standard Practice for Underground Installation of Thermoplastic Pipe for Sewers and Other Gravity-Flow Applications ASTM D2321. Connections to manholes with sanitary pipe shall use a joint two (2) feet in length and shall use an approved water stop around pipe joint entry.
34. The bottom trench width in an unsupported trench shall be limited to the minimum practicable width allowing working space to place and compact the backfill material. The use of trench boxes and movable sheeting shall be performed in such a manner that removal, backfill and compaction will not disturb compacted backfill material or pipe alignment. Dewatering of the trench bottom shall be accomplished using adequate means to allow preparation of bedding, placement of the backfill material and pipe in the trench without standing water. Dewatering shall continue until sufficient backfill is placed above the pipe to prevent flotation or misalignment.
35. The Contractor shall dispose of all unsuitable materials, construction debris, and other waste materials offsite in accordance with applicable regulatory agency requirements at the Contractor's expense. All backfill shall be free of unsuitable materials.

36. The Contractor shall be responsible for providing a Hurricane Preparation Plan to the City's Engineering Representative for review and approval prior to commencing construction activities.

37. Any damage to city, county, or state roads caused by the Contractor shall be repaired by the Contractor in a timely manner and to the satisfaction of the City's Engineering Representative. Payment shall not be made for this work.

38. The Contractor shall protect private property.

SURVEY NOTES

1. The City of Clearwater Control Network's Horizontal Datum is: North American Datum (N.A.D.), Florida State Plane Coordinates, Florida West Zone 83(1999).
2. The City of Clearwater Control Network's Vertical Datum is: North American Vertical Datum (N.A.V.D.) 1988.
3. The survey was provided by the City of Clearwater Land Survey Division. The last date of field survey is 07-17-2015.
4. The City Benchmark referenced is located on the Southeast corner of the intersection of Gulf-to-Bay Boulevard and U.S. Highway 19 North, having an elevation of 47.38'.

TREE PROTECTION

1. The Contractor will be responsible for adhering to all Tree Protection measures required by the City of Clearwater codes, ordinances and Standard Specifications. This will include all tree barricades, root pruning and tree trimming/pruning activities. These requirements will apply within the specified "limits of work" and will also be applicable in all areas where the Contractor and/or his subcontractors stage, store or park vehicles, equipment, materials and debris.
2. All tree pruning and/or root pruning on existing trees to be preserved will only be performed by or under the direct supervision of an International Society of Arboriculture (ISA) Certified Arborist. Furthermore, all tree work shall conform to the American National Standards Institute (ANSI) 2001, American National Standard for Tree Care Operations – Tree, Shrub and Other Woody Plant Maintenance – Standard Practices (Pruning) ANSI A-300.
3. Where called for on the plans, install tree barricades, erosion control/silt fencing or other approved protective barriers around all trees to be preserved, per City Standard Detail. Where applicable, and specifically approved by the City's Engineering Representative protective barriers may be placed in root prune trenches.
4. Prior to any field changes taking place, it will be the Contractor's responsibility to review the potential impacts to existing trees with his Certified Arborist, and include any and all recommended tree protection measures in his proposal to modify the approved design. The City's Engineering Representative must approve, in writing, any changes to the approved design prior to implementation of said change.
5. The Contractor will avoid any open excavations, fill or other construction activities whenever possible within the "critical root zone" of any existing tree (i.e., under the drip line/canopy).
6. No vehicles, equipment or materials shall be parked or stored under/within the drip line/protective barrier area of any tree.
7. Where construction activities are anticipated to last for an extended period of time near existing trees, the Contractor shall install and maintain City approved tree barricades as shown in the Standard Details and as approved by the City's Engineering Representative.
8. Woodchips, mulch or another cushioning surface material approved by the City's Engineering Representative shall be placed to a minimum depth of ten (10) inches over areas where roots are present and construction traffic occurs.
9. All tree protection measures shall remain in place at all times during construction until the City's Engineering Representative authorizes removal.
10. The Contractor will coordinate with the City's Engineering Representative, Tim Kurtz, at (727) 562-4737, to obtain approval in advance of any and all work within the critical root zone of any existing tree.

SEDIMENT & EROSION CONTROL

1. It is the responsibility of the Contractor to control and prevent erosion and the transportation of sediment to surface drains and outfalls.
2. The Contractor shall prepare and submit a Stormwater Pollution Prevention Plan (SWPPP) in accordance with Florida Department of Environmental Protection (FDEP) Criteria for a National Pollution Discharge Elimination System (NPDES) Activities Permit.
3. The Contractor must obtain a FDEP Generic Permit for the Discharge of Produced Ground Water, if dewatering with offsite discharge will be required. The Contractor is responsible for all required preliminary water samples to satisfy the FDEP Generic Permit for the Discharge of Produced Ground Water. Sampling shall occur thirty (30) days prior to the start of dewatering.
4. Construction operations shall be carried out in such a manner that erosion and pollution shall be minimized. The submitted SWPPP shall be compiled with. All applicable federal, state, and local laws shall be complied with at all times. Please note that no hay bales are allowed on City of Clearwater projects.

ROOT PRUNING

1. Root pruning shall only be performed by or under the direct supervision of an International Society of Arboriculture (ISA) Certified Arborist.
2. Any proposed root pruning trenches shall be identified (i.e., staked or painted) on site, inspected and approved by the City's Engineering Representative prior to actual root pruning.
3. Root pruning shall be performed as far in advance of other construction activities as is feasible, but at a minimum shall be performed prior to any impacts to the soil. Associated tree protection measures should be implemented upon completion of said root pruning.
4. If there is a likelihood of excessive wind and/or rain, an exceptional care shall be taken on any root pruning activities.
5. Root pruning shall be limited to a minimum of ten inches per one inch trunk diameter from the tree base. Any exception must be approved by the City's Engineering Representative prior to said root pruning.
6. Roots shall be cut cleanly, as far from the trunk of the tree as possible. Root pruning shall be done to a minimum depth of eighteen (18) inches from existing grade, or to the depth of the disturbance if less than eighteen (18) inches.
7. Root pruning shall be performed using a root cutting machine designed specifically for this purpose. Alternate equipment or techniques must be approved by the City's Engineering Representative, prior to any work adjacent to trees to be preserved.
8. Root pruning shall be completed, inspected and accepted prior to the commencement of any excavation or other impacts to the critical root zones of trees to be protected.
9. Excavations in an area where root are present shall not cause the tearing or ripping of tree roots. Roots must first be cleanly severed prior to continuing with the excavation, or tunneled around to prevent damage to the root.
10. Tree roots shall not be exposed to drying out. Root ends shall be covered with native soil or burlap and kept moist until final backfill or final grades have been established.
11. When deemed appropriate (e.g. during periods of drought) the city representative may require a temporary irrigation system be utilized in the remaining critical root zones of root pruned trees.
12. Contractor to properly root prune, as needed, for new sidewalk and underdrain construction.

DEWATERING

1. Unless specifically authorized by the Engineer, all pipe, except subdrains, shall be laid "in the dry". The Contractor shall dewater trench excavation as required for the proper execution of the work, using one or more of the following approved methods: well point system, trenched gravity underdrain system, or sumps with pumps.
2. Well point systems must be efficient enough to lower the water level in advance of the excavation and maintain it continuously in order that the trench bottom and sides shall remain firm and reasonably dry. The well points shall be designed especially for this type of service, and the pumping unit used shall be capable of maintaining a high vacuum, and at the same time, of handling large volumes of air as well as of water.
3. The Contractor shall be responsible for disposing of all water resulting from trench dewatering operations, and shall dispose of the water without damage or undue inconvenience to the work, the surrounding area, or the general public. Contractor shall not dam, divert, or cause water to flow in excess in existing gutters, pavements or other structures; and to do this Contractor may be required to divert the water to a suitable place of discharge as may be determined by the Engineer. Where possible, Contractor may contain produced groundwater on the project site, a dewatering plan must be submitted to the City for approval if a discharge permit is not obtained or require
4. The Contractor shall be responsible for submitting the Notice of Intent to use the Generic Permit for the Discharge of Groundwater from Dewatering Operations and associated fee in accordance with Florida DEP Requirements, F.A.C. 62-621.300(2)(b) prior to discharging of produced groundwater into the City's streets, storm sewers or waterways.
5. Prior to construction, a dewatering plan must be prepared and submitted to the City for review. It shall include site-specific notes and details presenting the Contractor's proposed dewatering and disposal methods. The City will field-inspect the dewatering operation throughout construction.

UTILITY OWNERS

Spectrum
Attention: Mr. Ted Bingham
700 Carillon Parkway, Suite 6
St. Petersburg, Florida 33716-1123
Phone: (727) 329-2847

Frontier Communications, Inc.
Attention: Mr. Chris Blauvelt
MC: FLCW5033
1280 Cleveland Street
Clearwater, Florida 33782
Phone: (727) 562-1130

Wide Open West (WOW!)
FLSP2144
Attention: Mr. James Sandman -- Construction Project Coordinator
3001 Gandy Boulevard North
Pinellas Park, Florida 33782
Phone: (727) 239-0224 Office

Duke Energy
Attention: Mr. Rico Ashley
2166 Palmetto Street, Bldg. F
Clearwater, Florida 33765
City of Clearwater

Clearwater Gas System
Attention: Mr. Robert Jaeger
401 North Myrtle Avenue
Clearwater, Florida 33755
Phone: (727) 562-4900 Ext. 7438

City of Clearwater
Engineering Department - Traffic Division
Attention: Mr. Paul Bertels
100 South Myrtle Avenue, Room 220
Clearwater, Florida 33756-4748
Phone: (727) 562-4794

City of Clearwater
Engineering Department - Survey Division
Attention: Mr. Tom Mahony
100 South Myrtle Avenue, Room 220
Clearwater, Florida 33756-4748
Phone: (727) 562-4762

City of Clearwater
Engineering Department - Construction Management
Attention: Mr. Tim Kurtz
100 South Myrtle Avenue, Room 220
Clearwater, Florida 33756
Phone: (727) 562-4737

City of Clearwater
Public Utilities
Attention: Mr. Glenn Daniel
1650 North Arcturus Avenue
Clearwater, Florida 33755
Phone: (727) 562-4960 Ext. 7249

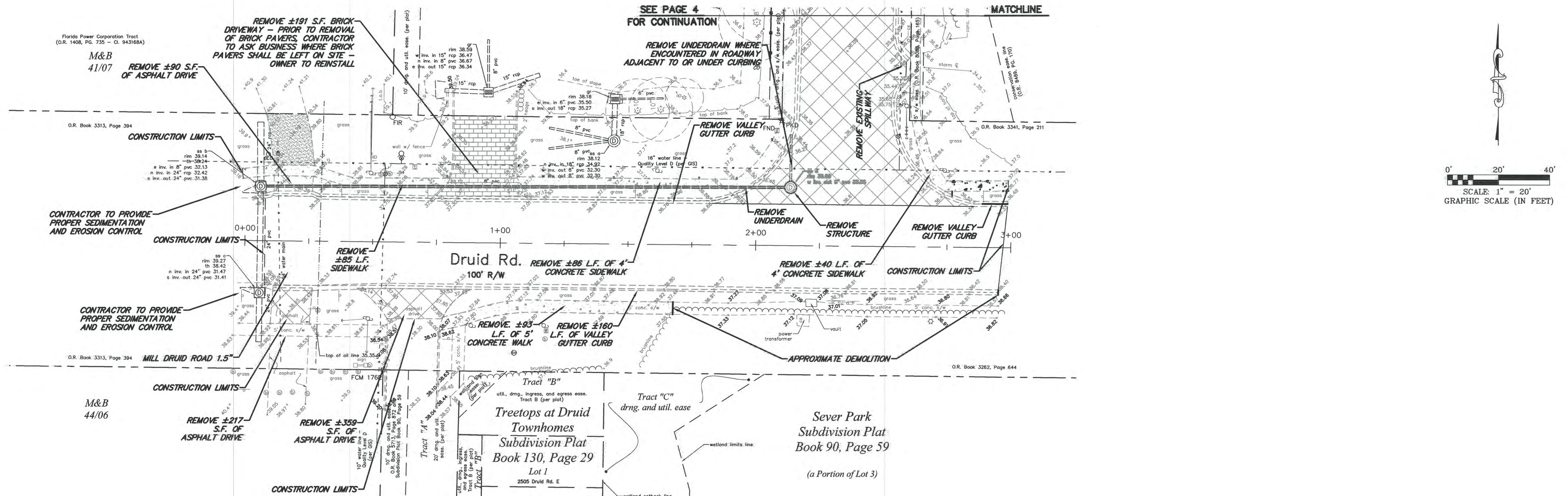


CITY OF CLEARWATER, FLORIDA
ENGINEERING DEPARTMENT
100 S. MYRTLE AVE.
CLEARWATER, FL 33756

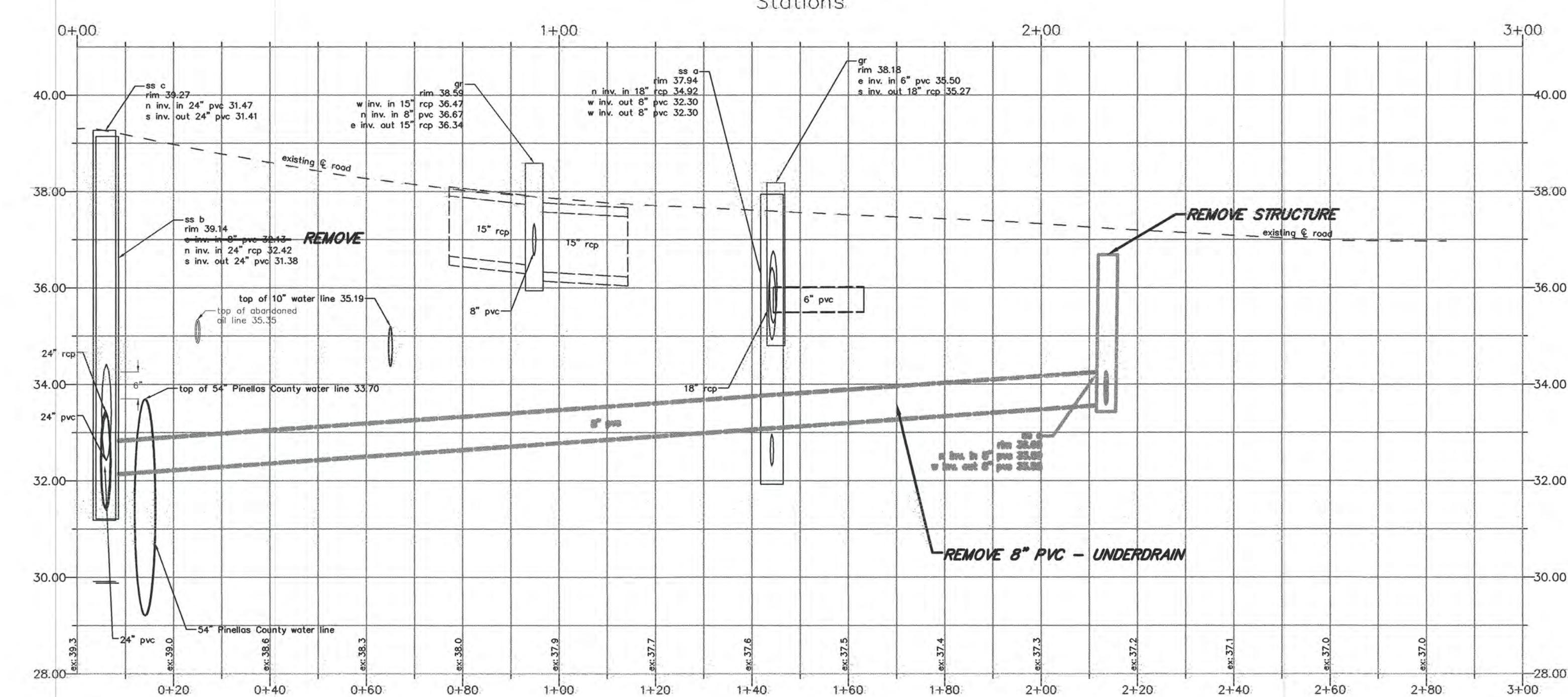


Bypass Drive Improvements General Notes

DRAWING NO.	FIELD BOOK NO.	SURVEYED BY:	SCALE:
2015030-CVRSHT	580	SR	VERT. N/A
CONTRACT NO.	DATE DRAWN:	DRAWN BY:	
15-0021-EN	05-11-2016	DDM, JR	
JOB NO.	DESIGNED BY:	CHECKED BY:	SHEET NO.:
2015030	JWS	PWD	2 OF 27
APPROVED BY:			DATE:



Profile View: Druid Road



NOTE: Contractor shall hold and protect the gas main.

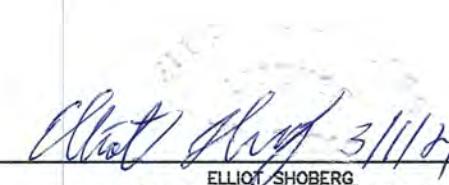
NOTE: Contractor must exercise care when working around any existing trees and/or palms. Any trimming that is required to perform the work must comply with the City of Clearwater's "Proper Tree Pruning Specifications" (Section IV, 900 Series; 910-3; page 105 and 106)

SURVEY NOTES:

- SURVEY NOTES:**

 - The Horizontal Datum is Florida State Plane Coordinates, N.A.D. 83-99, Florida West Zone.
 - The Vertical Datum is the new City Benchmark network, N.A.V.D. 1988.
 - Underground utility locations (potable water, reclaimed water, and gas) are derived from survey data (submitted on 07-17-2015 as spotted by Sunshine State One-Call of Florida), together with the best available GIS data as of 08-05-2015.
 - Property lines are derived from the best available GIS Parcel data as of 08-05-2015.

100% PLANS BID SET



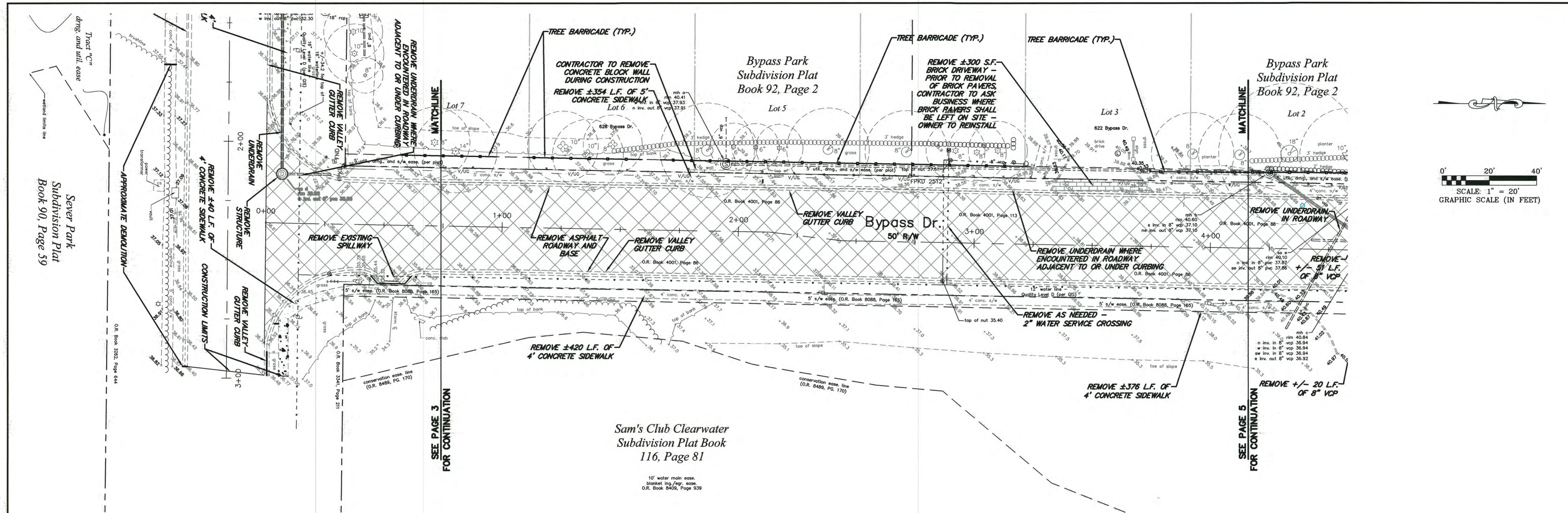
3/1/21
DATE SIGNED

CITY OF CLEARWATER, FLORIDA
ENGINEERING DEPARTMENT
100 S. Myrtle Ave.
Clearwater, FL 33756

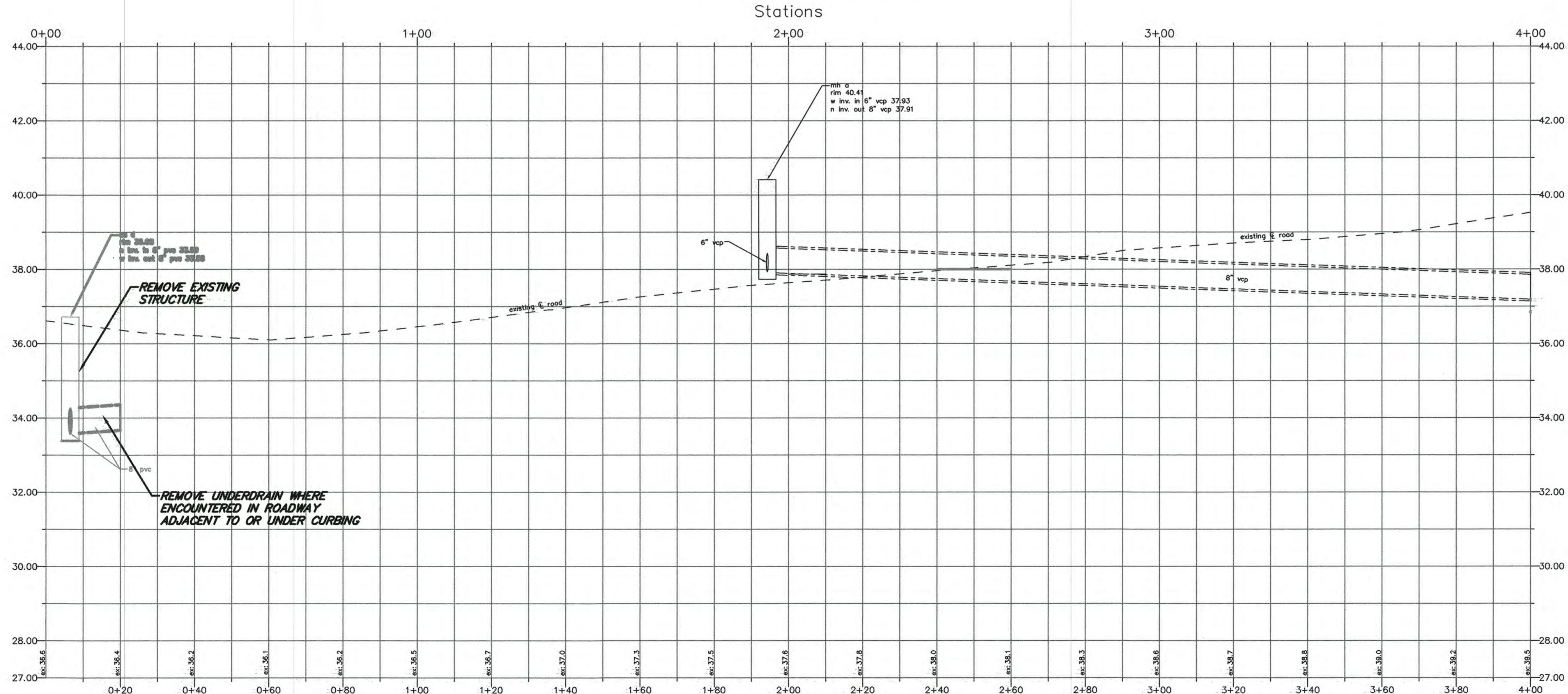


Bypass Drive Improvements Existing Conditions and Demolition Druid Road Alignment 0+00 Through 3+00

WG NAME: 2015030-DSGN	FIELD BOOK: 580	SURVEYED BY: SR	SCALE: VERT. 1" = 2'
ONTRACT NO.: 15-0021-EN	DATE DRAWN: 05-27-2016	DRAWN BY: DDM, JR	HORIZ. 1" = 20'
OB NO.: 2015030	DESIGNED BY: JWS	CHECKED BY: PWD	SHEET NO.: 3 OF 27
APPROVED BY:		DATE	



Profile View: Bypass Driv



NOTE: Contractor must exercise care when working around any existing trees and/or palms. Any trimming that is required to perform the work must comply with the City of Clearwater's "Proper Tree Pruning Specifications" (Section IV, 900 Series; 910-3; page 105 and 106)

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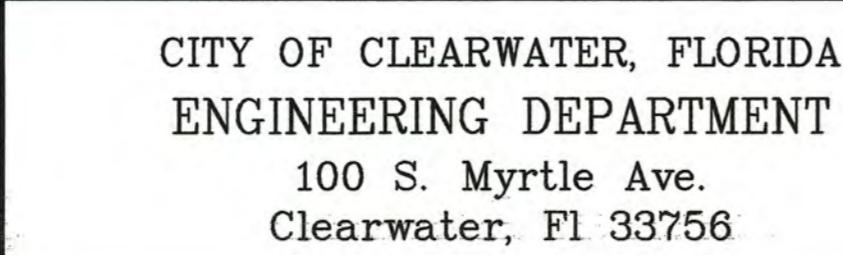
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100% PLANS BID SET

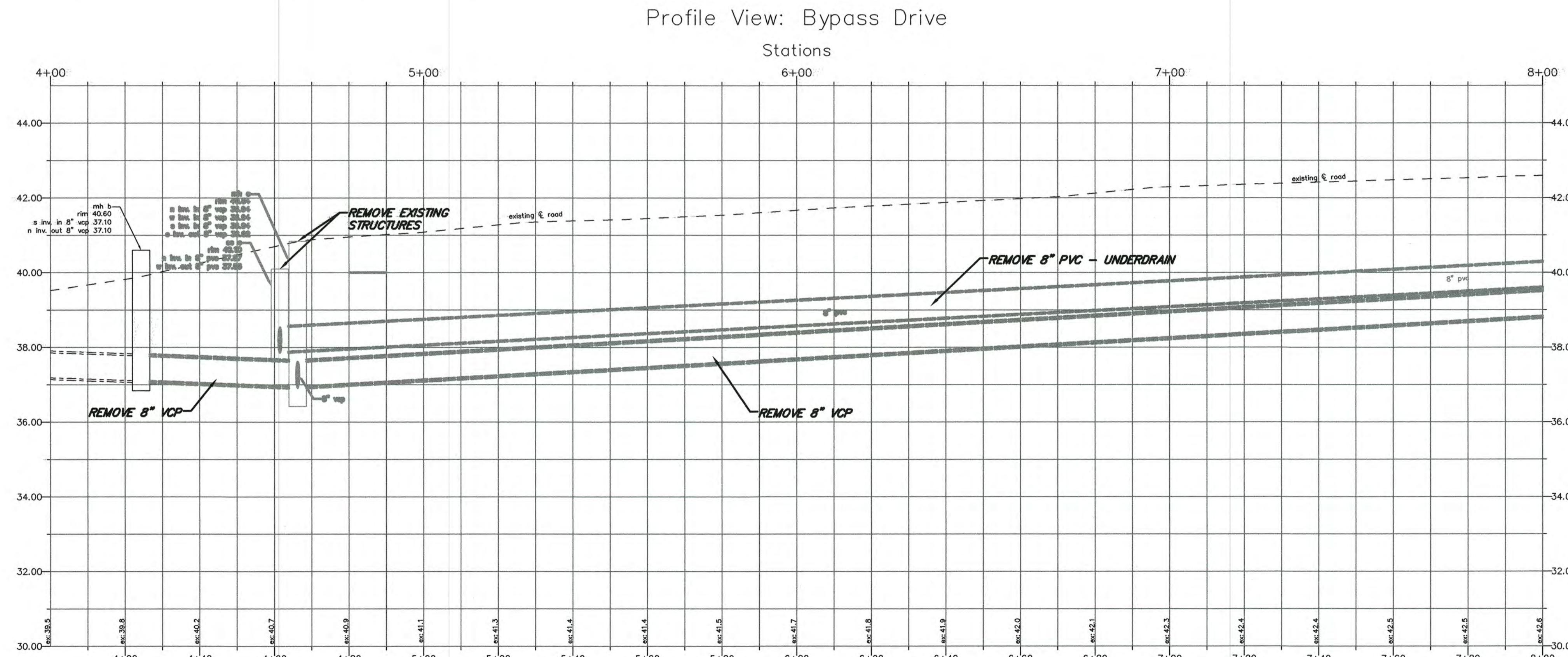
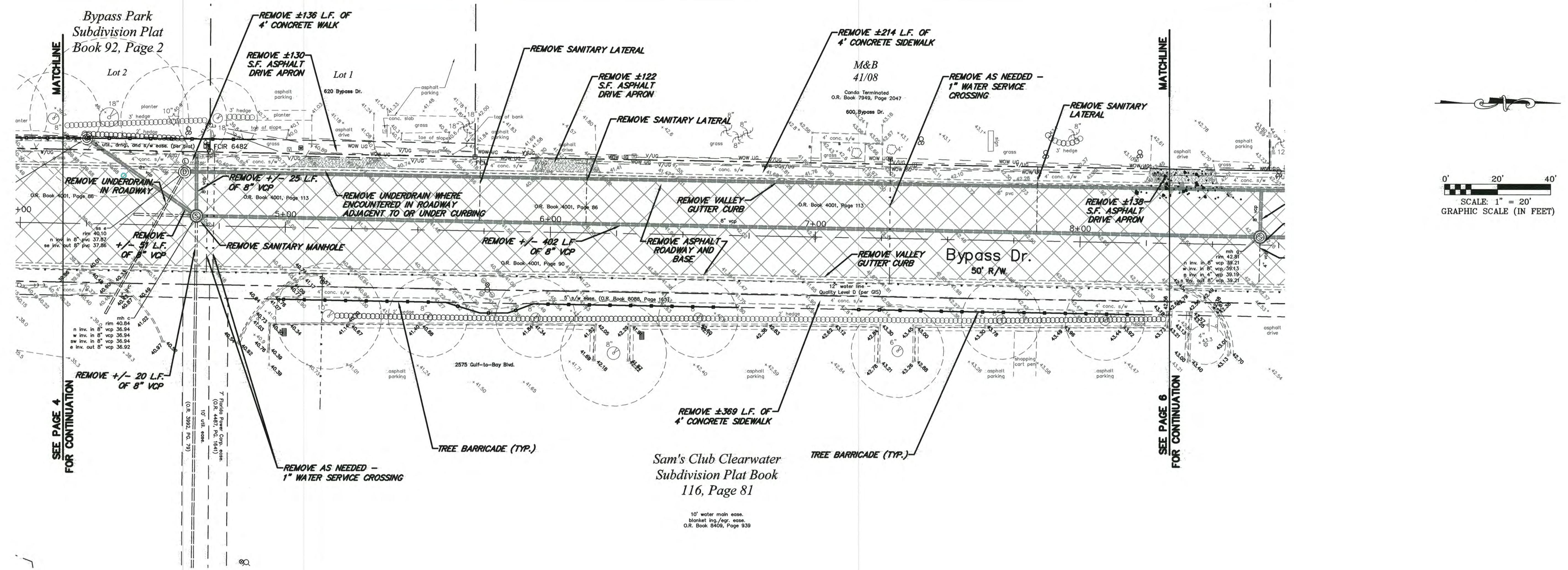
Bypass Drive Improvements

Existing Conditions and Demolition

Bypass Drive Alignment 0+00 Through 4+00



DWG NAME: 2015030-DSGN	FIELD BOOK: 580	SURVEYED BY: SR	SCALE: VERT. 1" = 2' HORIZ. 1" = 20'
CONTRACT NO.: 15-0021-EN	DATE DRAWN: 05-27-2016	DRAWN BY: DDM, JR	
JOB NO.: 2015030	DESIGNED BY: JWS	CHECKED BY: PWD	SHEET NO.: 4 OF 27
APPROVED BY <hr/>		DATE	



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**100% PLANS
BID SET**

REVISION	BY	DATE
<i>Elliott Shaver 3/1/21</i>		
DATE SIGNED		

Elliott Shaver 3/1/21

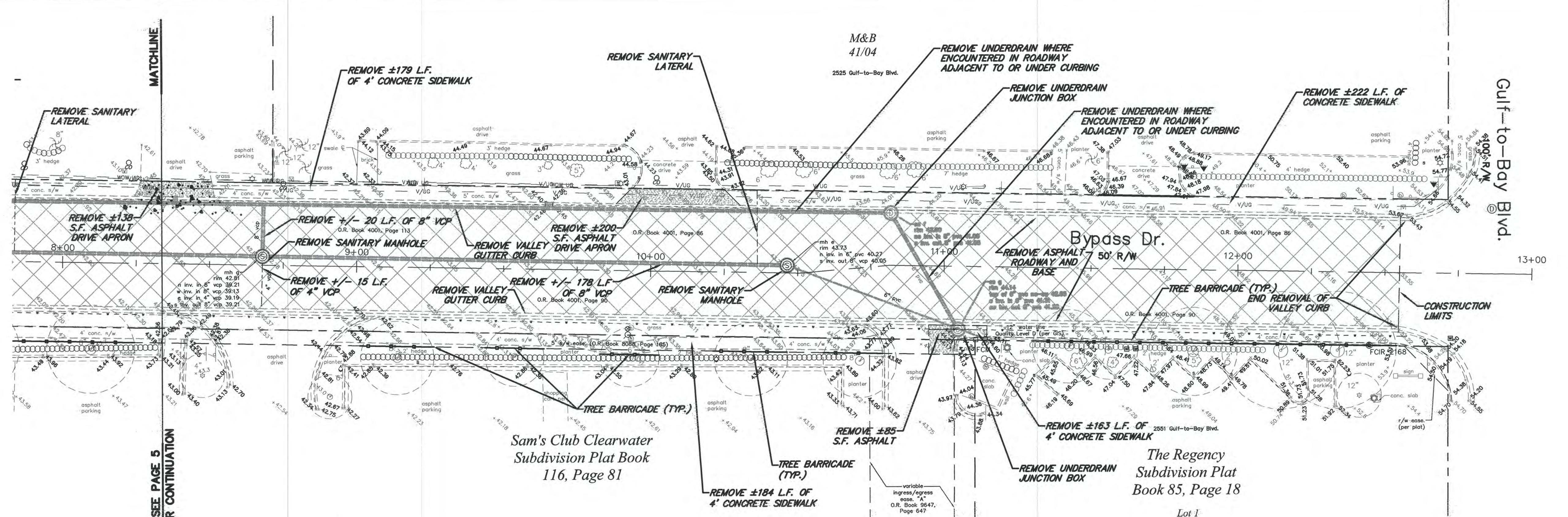
ELLIOTT SHAVER
REGISTERED PROFESSIONAL ENGINEER
PROFESSIONAL ENGINEER NUMBER PE 66746
STATE OF FLORIDA

CITY OF CLEARWATER, FLORIDA
ENGINEERING DEPARTMENT
100 S. Myrtle Ave.
Clearwater, FL 33756

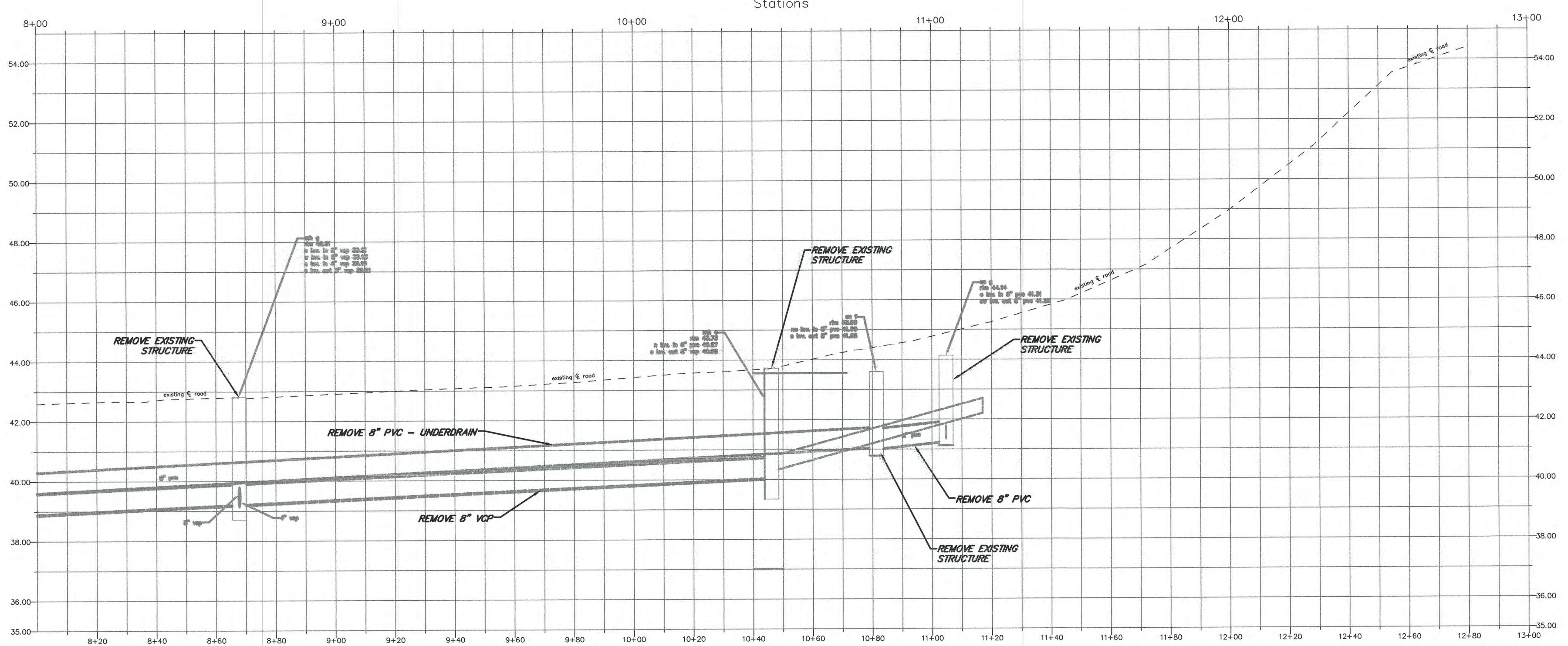


**Bypass Drive Improvements
Existing Conditions and Demolition
Bypass Drive Alignment 4+00 Through 8+00**

DWG NAME:	FIELD BOOK:	SURVEYED BY:	SCALE:
2015030-DSGN	580	SR	VERT. 1" = 2'
15-0021-EN	05-27-2016	DDM, JR	HORIZ. 1" = 20'
JOB NO.:	DESIGNED BY:	CHECKED BY:	SHEET NO.:
2015030	JWS	PWD	5 OF 29
APPROVED BY		DATE	



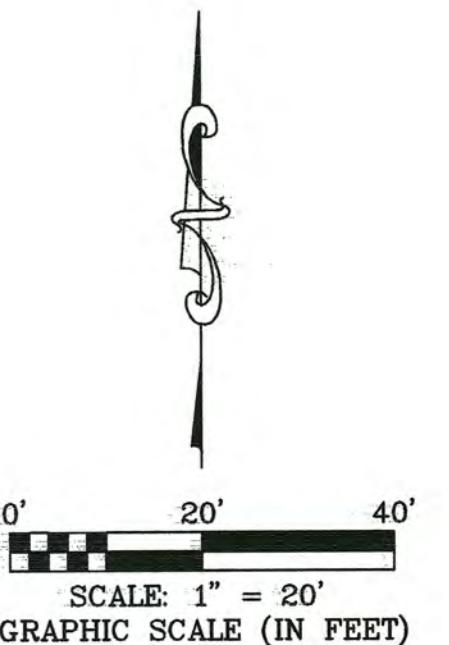
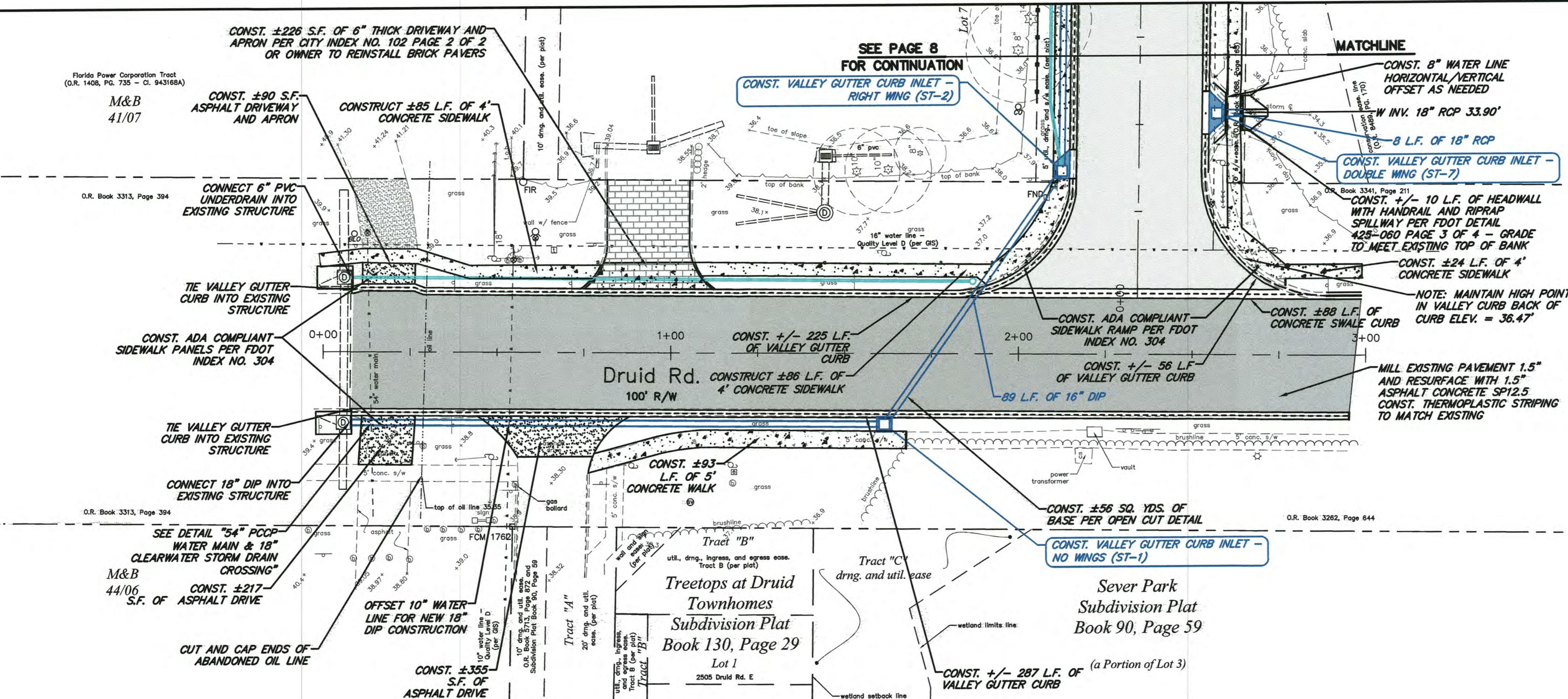
Profile View: Bypass Drive



NOTE: Contractor must exercise care when working around any existing trees and/or palms. Any trimming that is required to perform the work must comply with the City of Clearwater's "Proper Tree Pruning Specifications" (Section IV, 900 Series; 910-3; page 105 and 106)

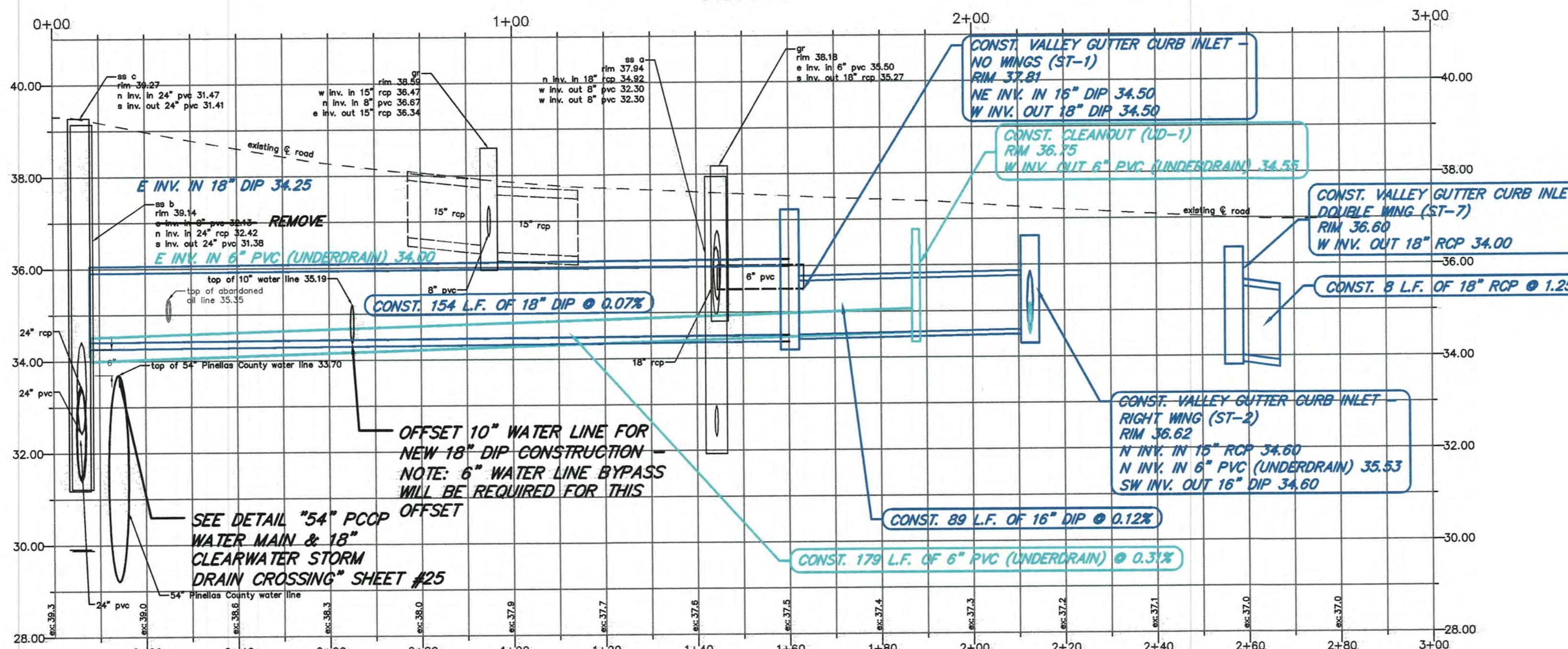
100% PLANS BID SET

REVISION	BY	DATE		
			DATE SIGNED	3/11/14
<p style="text-align: center;"> CITY OF CLEARWATER, FLORIDA ENGINEERING DEPARTMENT 100 S. Myrtle Ave. Clearwater, Fl 33756 </p>				
<p style="text-align: center;"> ELIOT SHOBERG REGISTERED PROFESSIONAL ENGINEER PROFESSIONAL ENGINEER NUMBER PE 56746 STATE OF FLORIDA </p>			DWG NAME:	FIELD BOOK:
			2015030-DSGN	580
			SURVEYED BY:	SR
			SCALE:	VERT. 1" = 2'
				HORIZ. 1" = 20'
			INVESTIGATE BEFORE YOU EXCAVATE	CALL 811
			SUNSHINE STATE	ONE CALL
			ONE CALL	OF FLORIDA
			www.callsunshine.com	(800) 432-4770
			MIN. 48 HOURS	BEFORE YOU EXCAVATE
			APPROVED BY	DATE
Bypass Drive Improvements Existing Conditions and Demolition Bypass Drive Alignment 8+00 through 13+00				



Profile View: Druid Road

Stations



NOTE: Contractor must exercise care when working around any existing trees and/or palms. Any trimming that is required to perform the work must comply with the City of Clearwater's "Proper Tree Pruning Specifications" (Section IV, 900 Series; 910-3; page 105 and 106)

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**100% PLANS
BID SET**

REVISION	BY	DATE
<i>Elton Shoberg 3/1/14</i>		<i>3/1/14</i>

Elton Shoberg 3/1/14

ELTON SHOBERG
REGISTERED PROFESSIONAL ENGINEER
PROFESSIONAL ENGINEER NUMBER PE 06748
STATE OF FLORIDA

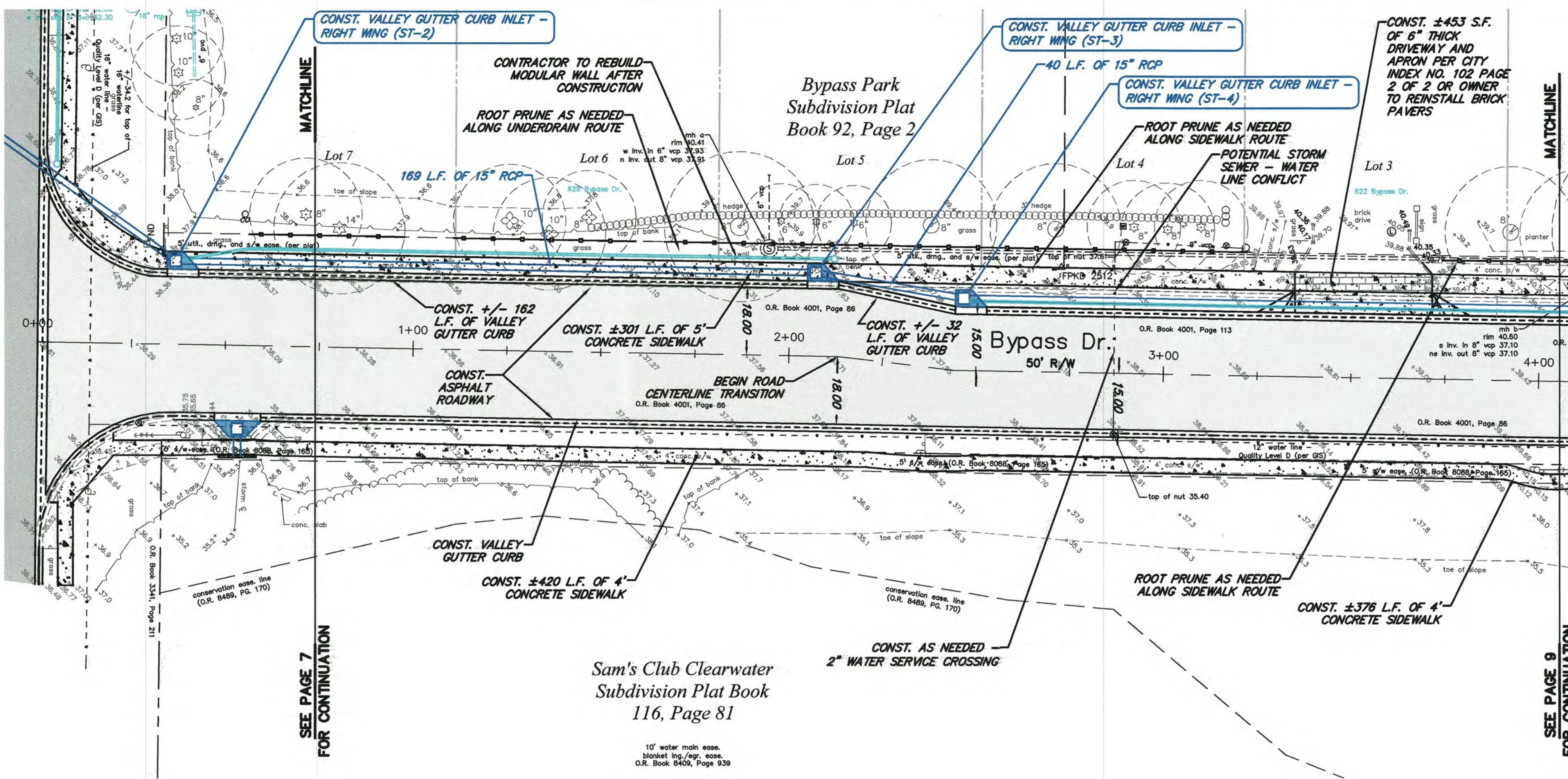
DATE SIGNED: *3/1/14*

CITY OF CLEARWATER, FLORIDA
ENGINEERING DEPARTMENT
100 S. Myrtle Ave.
Clearwater, FL 33756

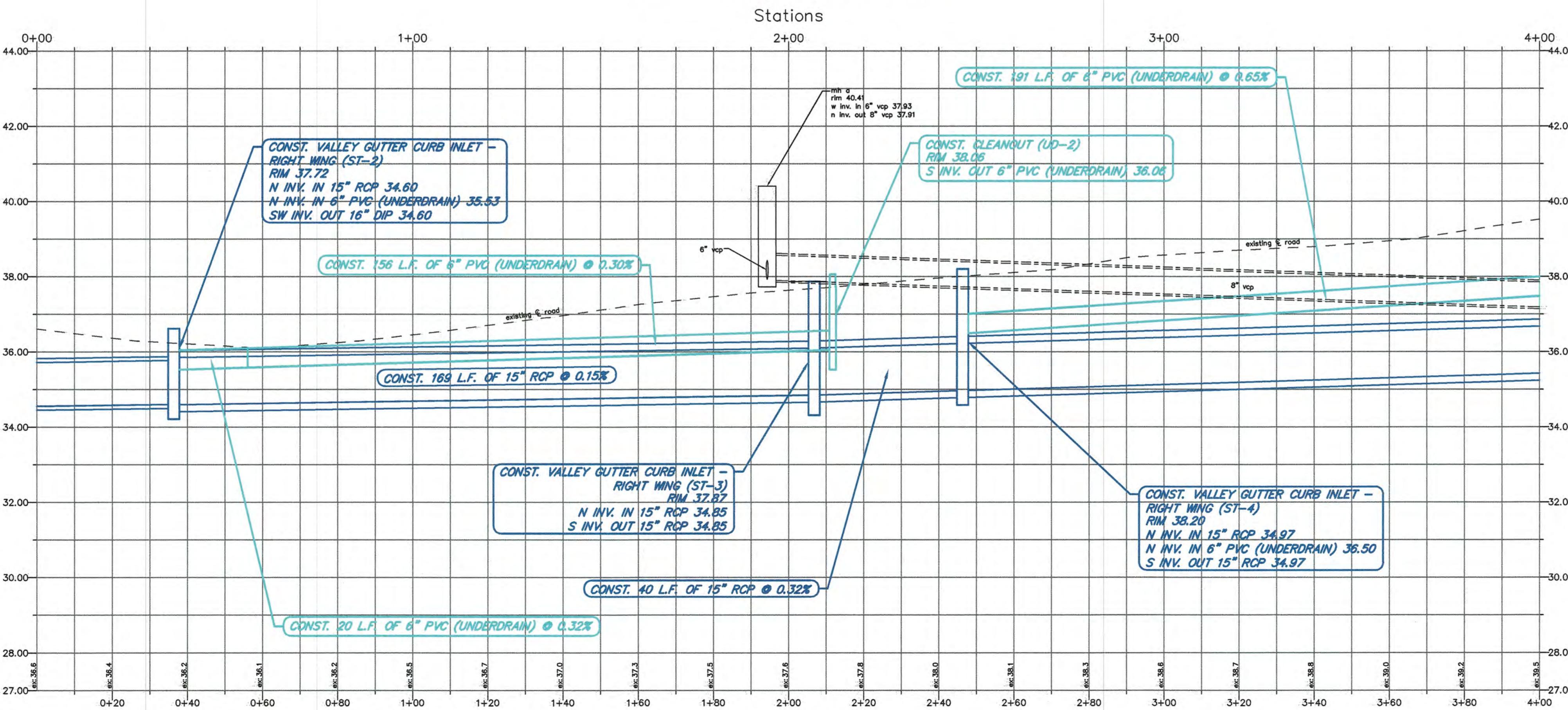


Bypass Drive Improvements
Plan and Profile
Druid Road Alignment 0+00 Through 3+00

DWG NAME:	FIELD BOOK:	SURVEYED BY:	SCALE:
2015030-DSGN	580	SR	VERT. 1" = 2'
15-0021-EN	05-27-2016	DDM, JR	DATE DRAWN:
2015030	JWS	PWD	JOB NO.:
			APPROVED BY: _____ DATE: _____



Profile View: Bypass Drive



NOTE: Contractor must exercise care when working around any existing trees and/or palms. Any trimming that is required to perform the work must comply with the City of Clearwater's "Proper Tree Pruning Specifications" (Section IV, 900 Series; 910-3; page 105 and 106)

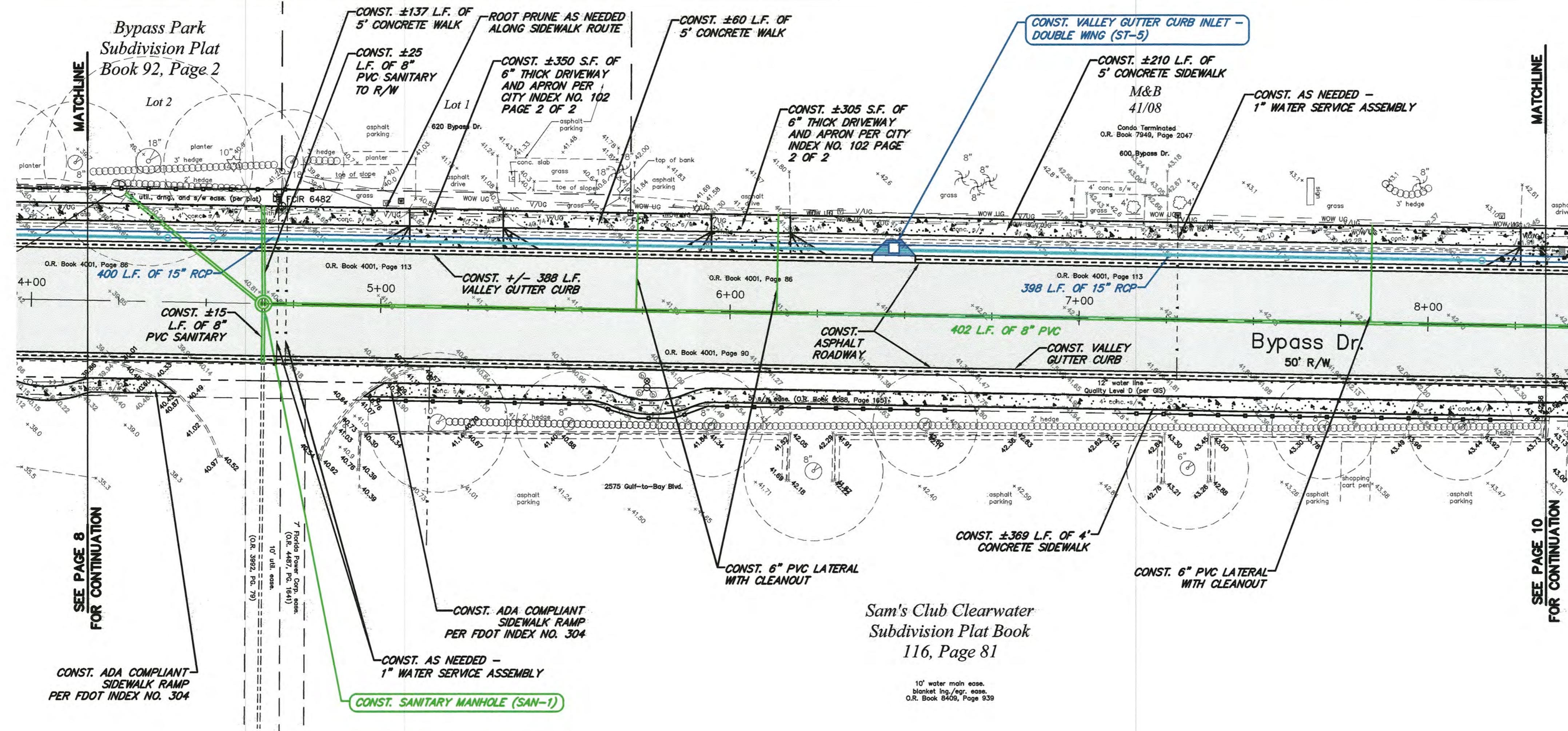
100% PLANS BID SET

DWG NAME: 2015030-DSGN	FIELD BOOK: 580	SURVEYED BY: SR	SCALE: VERT. 1" = 2' HORIZ. 1" = 20'
CONTRACT NO.: 15-0021-EN	DATE DRAWN: 05-27-2016	DRAWN BY: DDM, JR	
JOB NO.: 2015030	DESIGNED BY: JWS	CHECKED BY: PWD	SHEET NO.: 8 OF 27
APPROVED BY:		<hr/>	
		DATE	

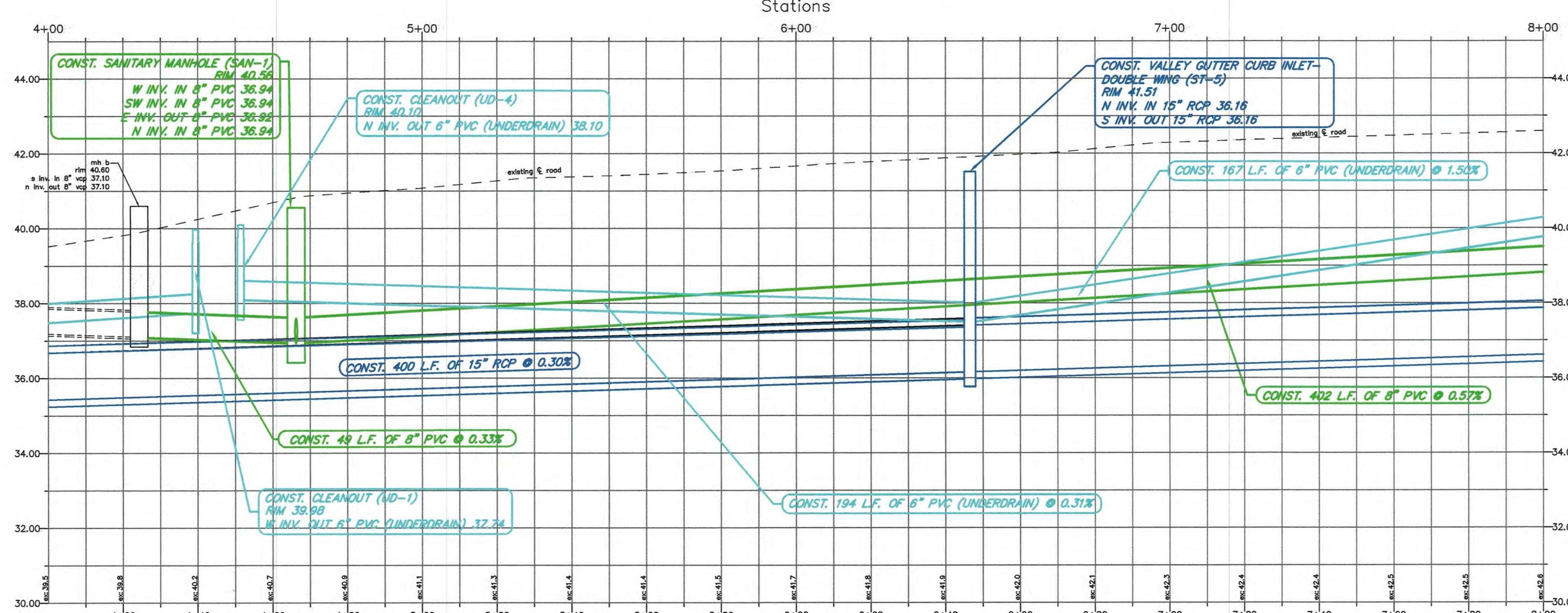
CITY OF CLEARWATER, FLORIDA
ENGINEERING DEPARTMENT



Bypass Drive Improvements Plan and Profile



Profile View: Bypass Driv



NOTE: Contractor must exercise care when working around any existing trees and/or palms. Any trimming that is required to perform the work must comply with the City of Clearwater's "Proper Tree Pruning Specifications" (Section IV, 900 Series; 910-3; page 105 and 106)

SURVEY NOTES:

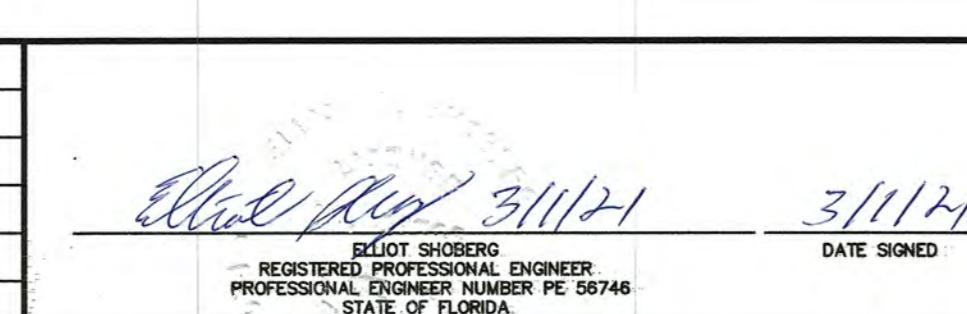
- The Horizontal Datum is Florida State Plane Coordinates, N.A.D. 83-99, Florida West Zone.
 - The Vertical Datum is the new City Benchmark network, N.A.V.D. 1988.
 - Underground utility locations (potable water, reclaimed water, and gas) are derived from survey data (submitted on 07-17-2015 as spotted by Sunshine State One-Call of Florida), together with the best available GIS data as of 08-05-2015.
 - Property lines are derived from the best available GIS Parcel data as of 08-05-2015.

100% PLANS BID SET

Bypass Drive Improvements Plan and Profile

Bypass Drive Alignment 4+00 Through 8+00

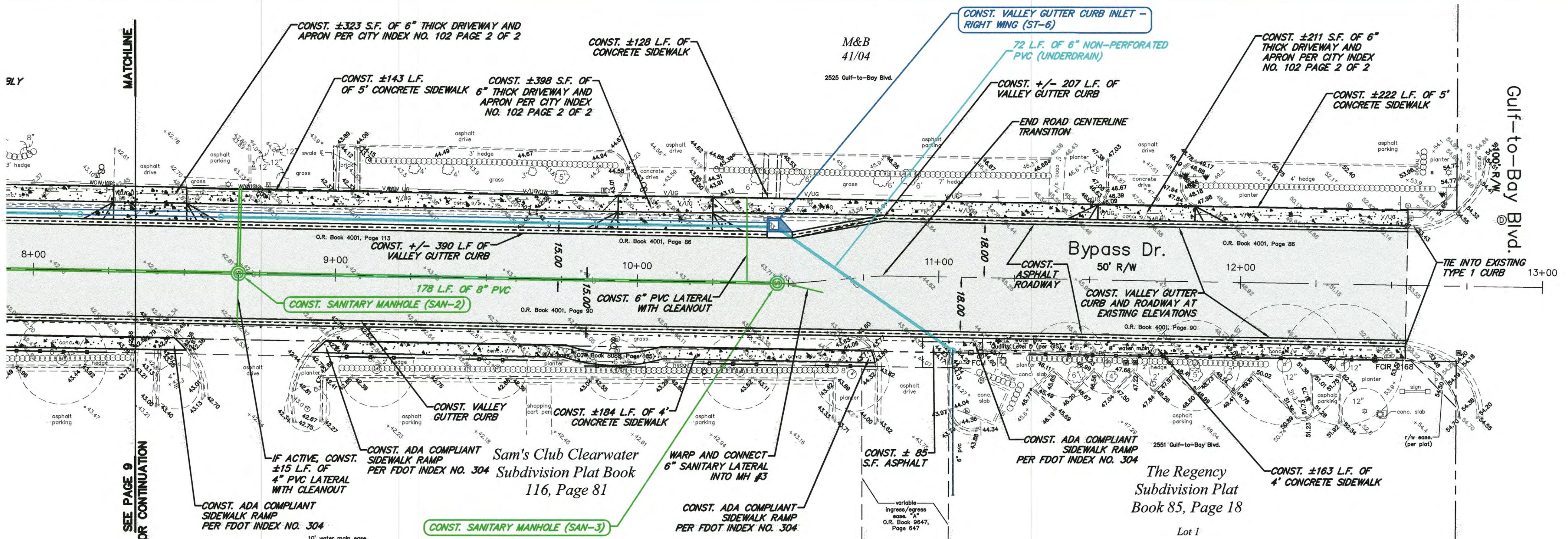
	REVISION	BY
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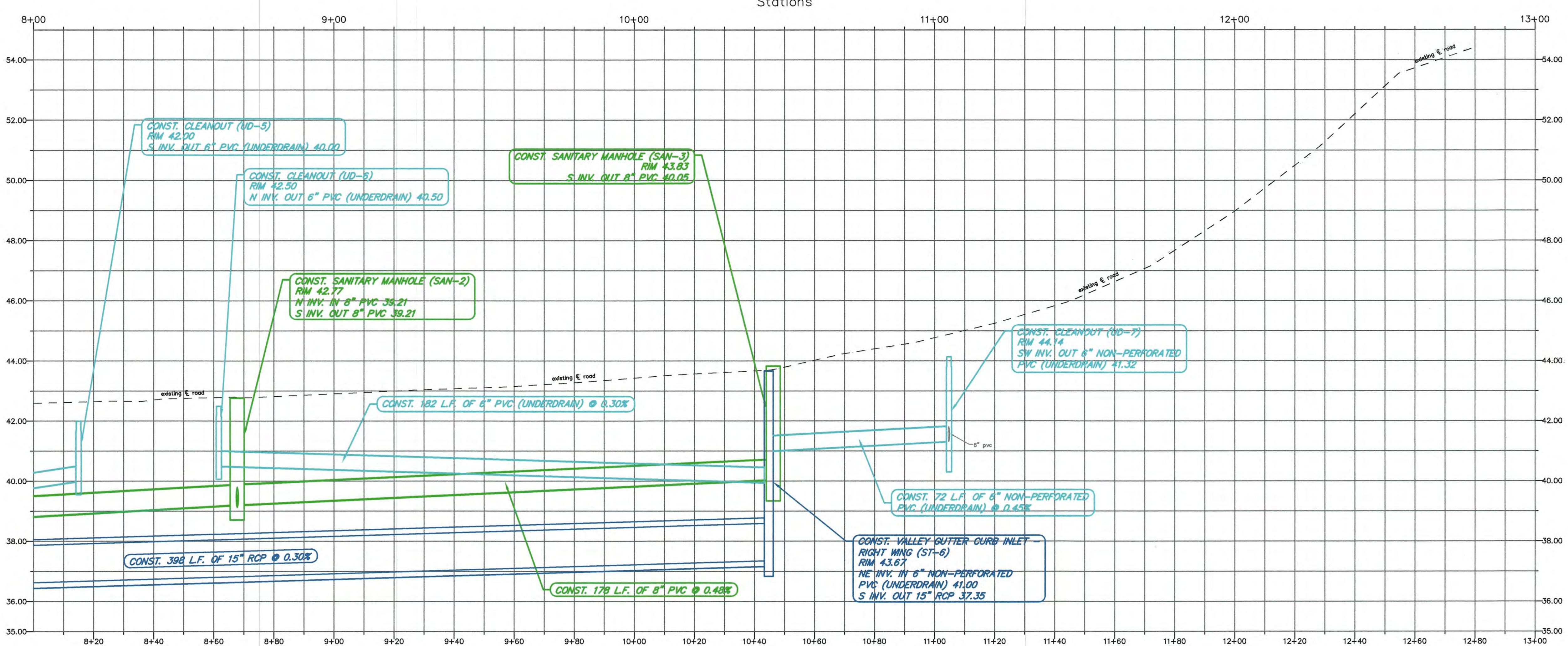
CITY OF CLEARWATER, FLORIDA
ENGINEERING DEPARTMENT
100 S. Myrtle Ave.
Clearwater, FL 33756



DWG NAME: 2015030-DSGN	FIELD BOOK: 580	SURVEYED BY: SR	SCALE: VERT. 1" = 2'
CONTRACT NO.: 15-0021-EN	DATE DRAWN: 05-27-2016	DRAWN BY: DDM, JR	HORIZ. 1" = 20
JOB NO.: 2015030	DESIGNED BY: JWS	CHECKED BY: PWD	SHEET NO.: 9 OF 27
APPROVED BY:			
		DATE	



Profile View: Bypass Driv



NOTE: Contractor must exercise care when working around any existing trees and/or palms. Any trimming that is required to perform the work must comply with the City of Clearwater's "Proper Tree Pruning Specifications" (Section IV, 900 Series; 910-3; page 105 and 106).

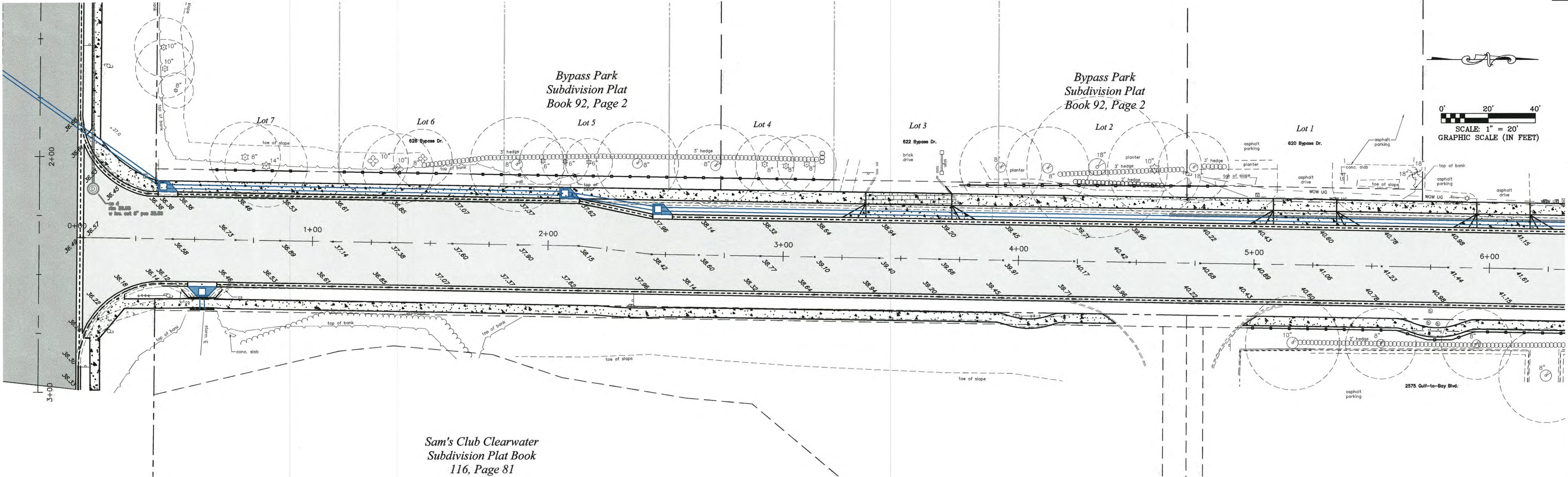
100% PLANS BID SET

URVEY NOTES:
The Horizontal Datum is Florida State Plane Coordinates, N.A.D. 83-99, Florida West Zone.
The Vertical Datum is the new City Benchmark network, N.A.V.D. 1988.
Underground utility locations (potable water, reclaimed water, and gas) are derived from survey data (submitted on 07-17-2015 as spotted by Sunshine State One-Call of Florida), together with the best available GIS data as of 08-05-2015.
Property lines are derived from the best available GIS Parcel data as of 08-05-2015.

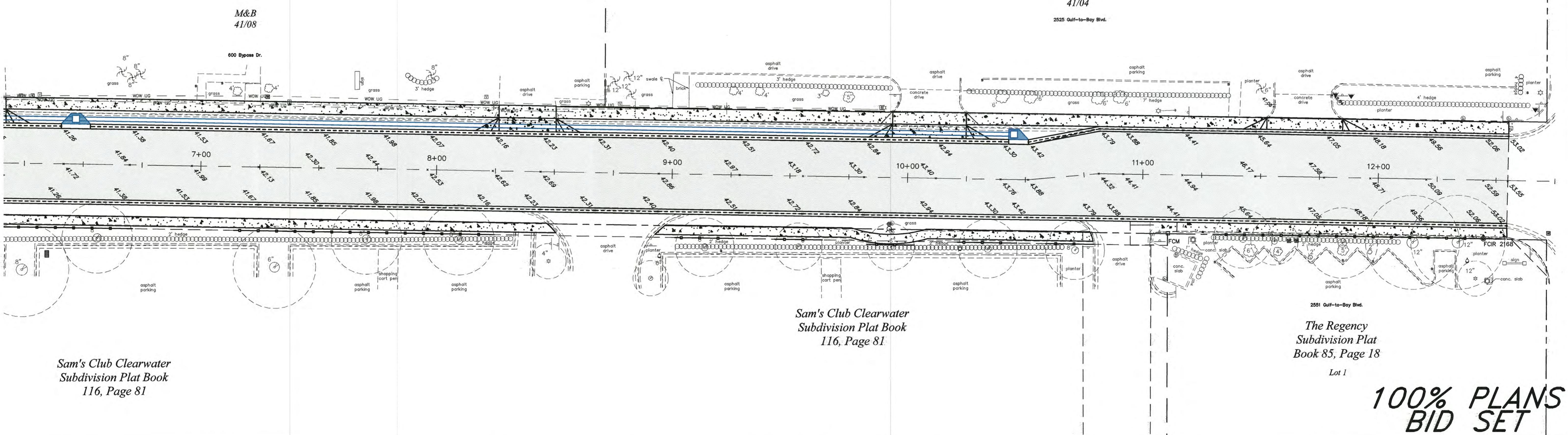
Bypass Drive Improvements Plan and Profile

Bypass Drive Alignment 8+00 Through 13+00

REVISION	BY	DATE	<i>Elliott Shoberg 3/1/14</i>	DATE SIGNED <i>3/1/14</i>
<p align="center">CITY OF CLEARWATER, FLORIDA ENGINEERING DEPARTMENT 100 S. Myrtle Ave. Clearwater, FL 33756</p>				
<p align="center">Bypass Drive Improvements Plan and Profile</p>				
<p align="center">Bypass Drive Alignment 8+00 Through 13+00</p>				
DWG NAME: 2015030-DSGN	FIELD BOOK: 580	SURVEYED BY: SR	SCALE: VERT. 1" = 2' HORIZ. 1" = 20'	
CONTRACT NO.: 15-0021-EN	DATE DRAWN: 05-27-2016	DRAWN BY: DDM, JR		
JOB NO.: 2015030	DESIGNED BY: JWS	CHECKED BY: PWD	SHEET NO.: 10 OF 27	
<p align="center">INVESTIGATE BEFORE YOU EXCAVATE CALL 811 SUNSHINE STATE ONE CALL OF FLORIDA www.callsunshine.com (800) 432-4770 MIN. 48 HOURS BEFORE YOU EXCAVATE</p>				



*Sam's Club Clearwater
Subdivision Plat Book
116, Page 81*



*Sam's Club Clearwater
Subdivision Plat Book*

*Sam's Club Clearwater
Subdivision Plat Book*

*The Regency
Subdivision Plat
Book 85 Page 18*

Last, 1

100% PLANS BID SET

Elliott Shoberg 3/11/21 **3/11/21**
ELLIOT SHOBERG
REGISTERED PROFESSIONAL ENGINEER
DATE SIGNED

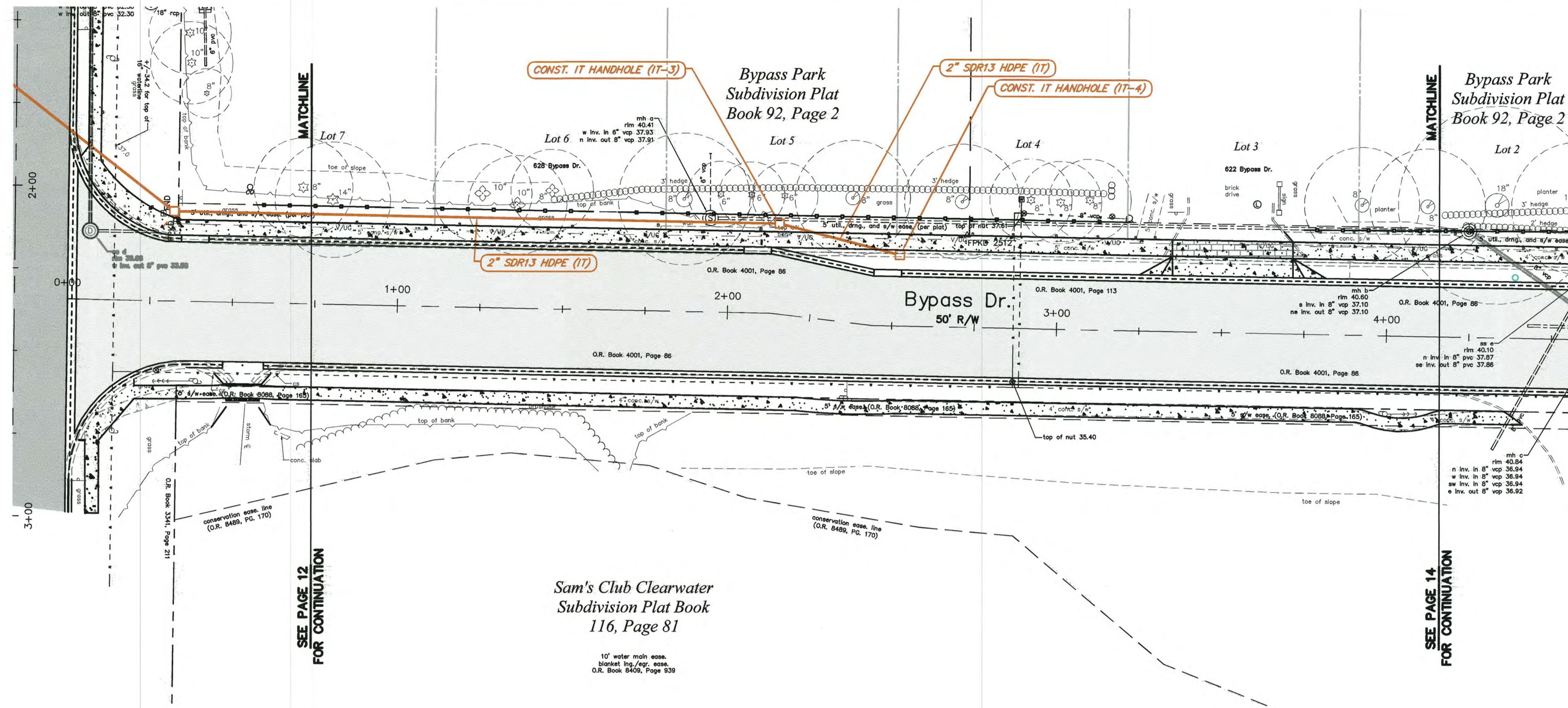
ELLIOT SHIBBERG
REGISTERED PROFESSIONAL ENGINEER
PROFESSIONAL ENGINEER NUMBER PE 56746
STATE OF FLORIDA

CITY OF CLEARWATER, FLORIDA
ENGINEERING DEPARTMENT
100 S. Myrtle Ave.
Clearwater, Fl. 33756

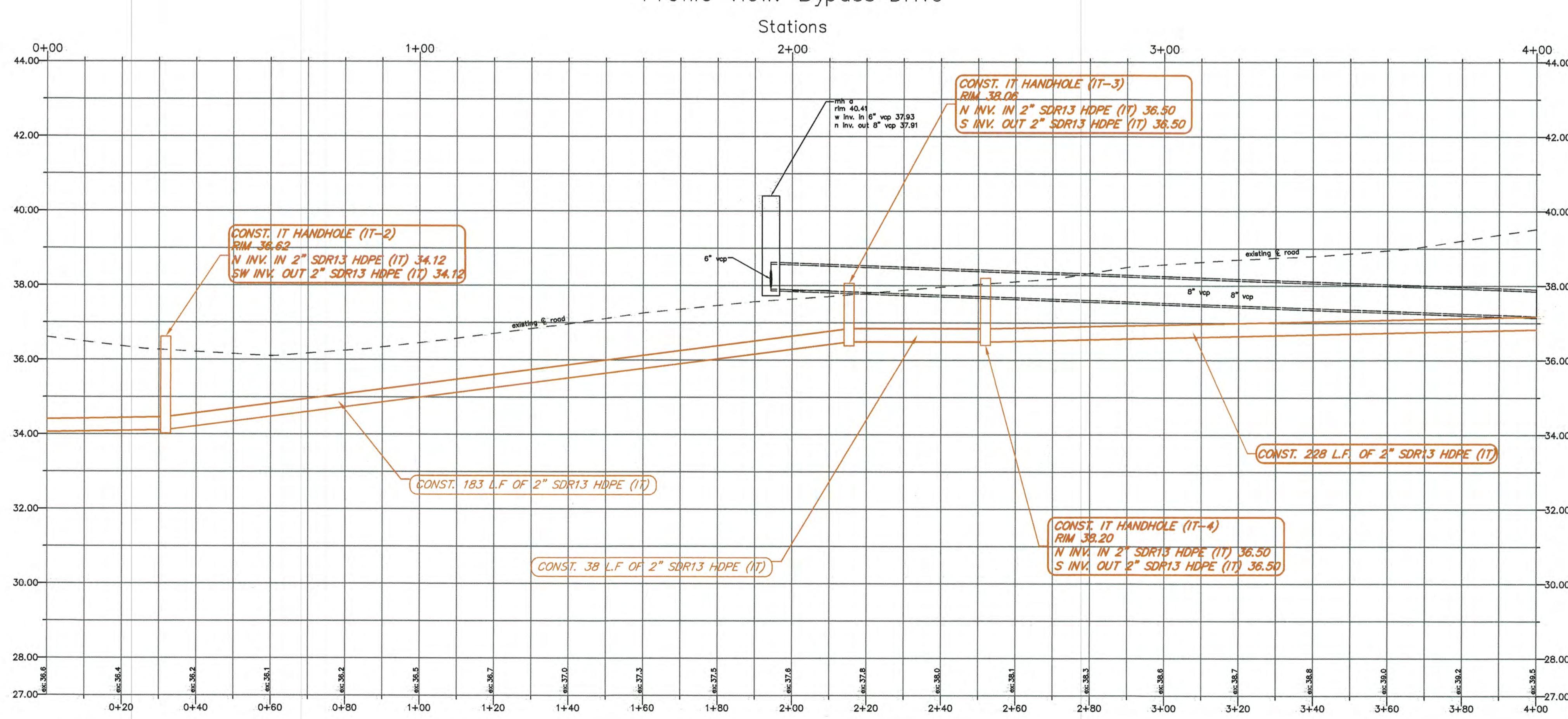


Bypass Drive Improvements
Centerline/Flowline Grading Plan
Bypass Drive Alignment 0+00 Through 13+25

DWG NAME: 2015030-DSGN	FIELD BOOK: 580	SURVEYED BY: SR	SCALE: VERT. 1" = 2' HORIZ. 1" = 20'
CONTRACT NO.: 15-0021-EN	DATE DRAWN: 05-27-2016	DRAWN BY: DDM, JR	
JOB NO.: 2015030	DESIGNED BY: JWS	CHECKED BY: PWD	SHEET NO.: 11 OF 27
APPROVED BY: _____ DATE _____			



0' 20' 40'
SCALE: 1" = 20'
GRAPHIC SCALE (IN FEET)



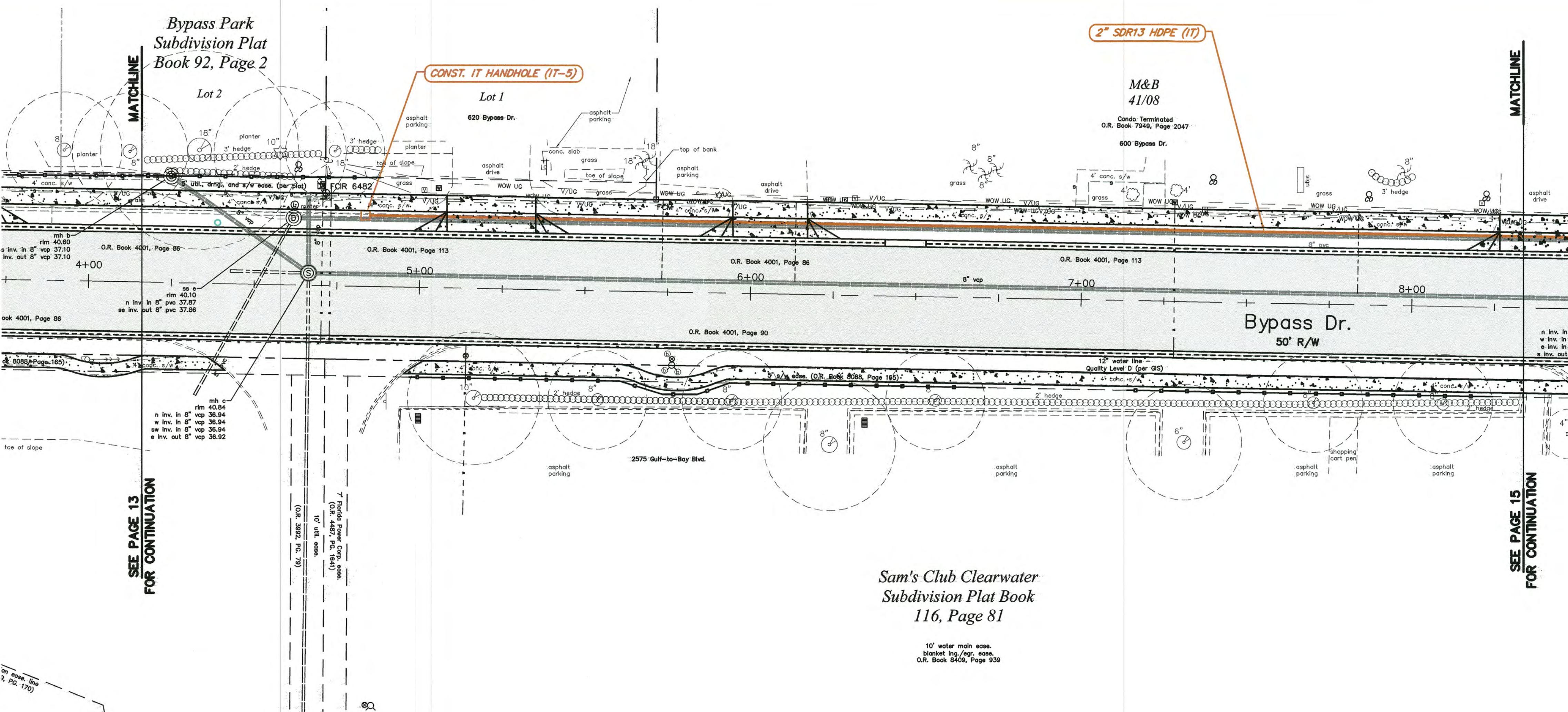
NOTE: Contractor must exercise care when working around any existing trees and/or palms. Any trimming that is required to perform the work must comply with the City of Clearwater's "Proper Tree Pruning Specifications" (Section IV, 900 Series; 910-3; page 105 and 106)

- SURVEY NOTES:**
- The Horizontal Datum is Florida State Plane Coordinates, N.A.D. 83-99, Florida West Zone.
 - The Vertical Datum is the new City Benchmark network, N.A.V.D. 1988.
 - Underground utility locations (potable water, reclaimed water, and gas) are derived from survey data (submitted on 07-17-2015 as spotted by Sunshine State One-Call of Florida), together with the best available GIS data as of 08-05-2015.
 - Property lines are derived from the best available GIS Parcel data as of 08-05-2015.

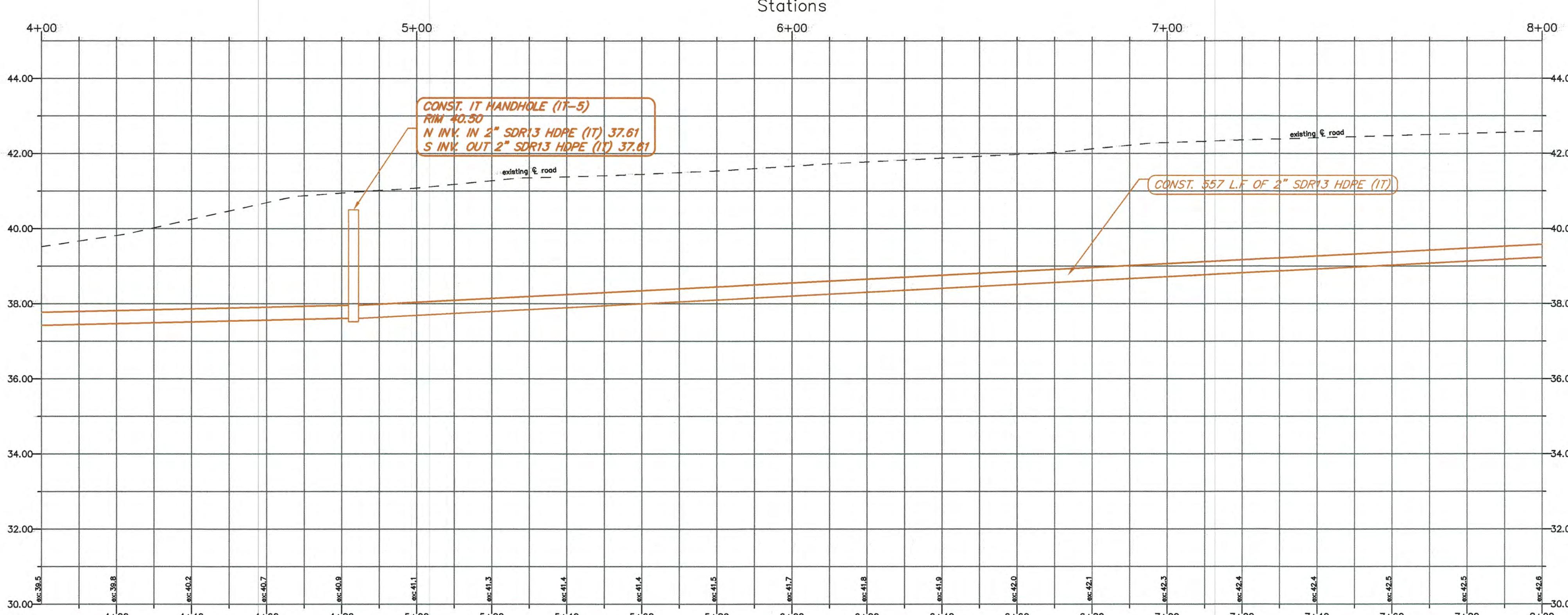
**100% PLANS
BID SET**

REVISION	BY	DATE	3/1/16	3/1/16	CITY OF CLEARWATER, FLORIDA ENGINEERING DEPARTMENT 100 S. Myrtle Ave. Clearwater, Fl 33756	INVESTIGATE BEFORE YOU EXCAVATE CALL 811 SUNSHINE STATE ONE CALL OF FLORIDA (800) 432-4770 MIN. 48 HOURS BEFORE YOU EXCAVATE	DWG NAME: 2015030-DSGN FIELD BOOK: 580 SURVEYED BY: SR SCALE: VERT. 1" = 2' CONTRACT NO.: 15-0021-EN DATE DRAWN: 05-27-2016 DRAWN BY: DDM, JR HORIZ. 1" = 20' JOB NO.: 2015030 DESIGNED BY: JWS CHECKED BY: PWD SHEET NO.: 13 OF 27 APPROVED BY: _____ DATE: _____
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**Bypass Drive Improvements
Plan and Profile – IT Conduit
Bypass Drive Alignment 0+00 Through 4+00**



Profile View: Bypass Drive



NOTE: Contractor must exercise care when working around any existing trees and/or palms. Any trimming that is required to perform the work must comply with the City of Clearwater's "Proper Tree Pruning Specifications" (Section IV, 900 Series; 910-3; page 105 and 106)

SURVEY NOTES:

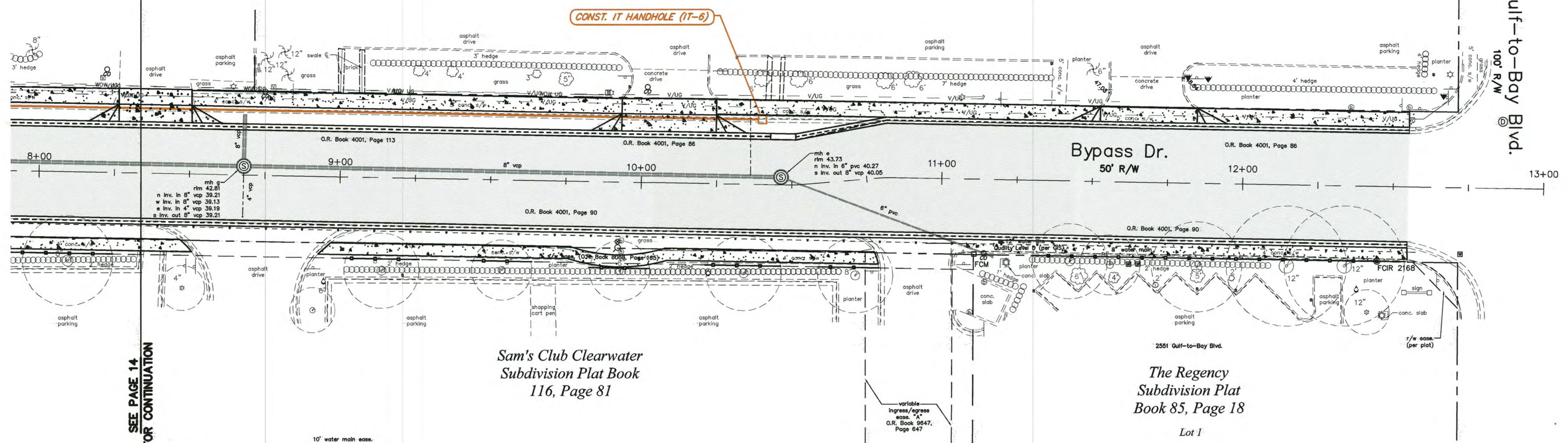
- The Horizontal Datum is Florida State Plane Coordinates, N.A.D. 83-99, Florida West Zone.
 - The Vertical Datum is the new City Benchmark network, N.A.V.D. 1988.
 - Underground utility locations (potable water, reclaimed water, and gas) are derived from survey data (submitted on 07-17-2015 as spotted by Sunshine State One-Call of Florida), together with the best available GIS data as of 08-05-2015.
 - Property lines are derived from the best available GIS Parcel data as of 08-05-2015.

100% PLANS BID SET

MATCHLINE

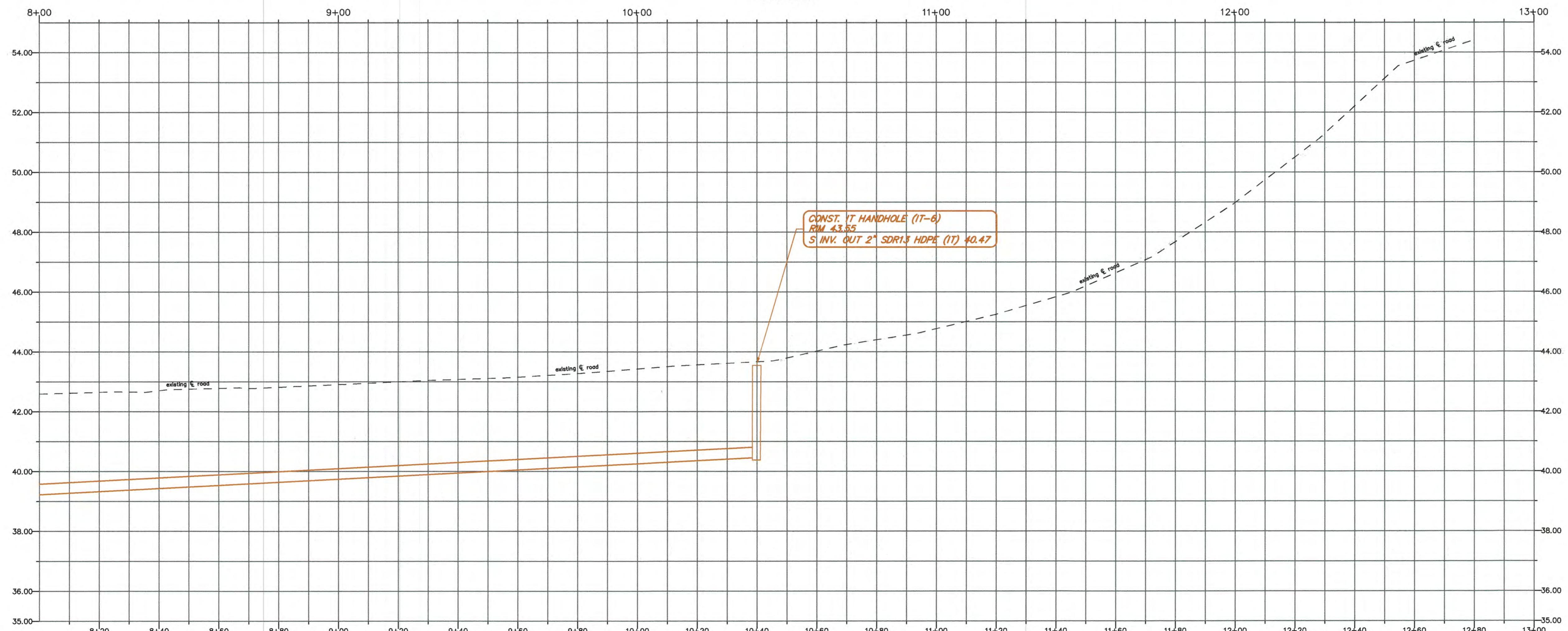
M&B
41/04

2525 Gulf-to-Bay Blvd.

SEE PAGE 14
FOR CONTINUATION

Profile View: Bypass Drive

Stations



NOTE: Contractor must exercise care when working around any existing trees and/or palms. Any trimming that is required to perform the work must comply with the City of Clearwater's "Proper Tree Pruning Specifications" (Section IV, 900 Series; 910-3; page 105 and 106)

- SURVEY NOTES:**
- The Horizontal Datum is Florida State Plane Coordinates, N.A.D. 83-99, Florida West Zone.
 - The Vertical Datum is the new City Benchmark network, N.A.V.D. 1988.
 - Underground utility locations (potable water, reclaimed water, and gas) are derived from survey data (submitted on 07-17-2015 as spotted by Sunshine State One-Call of Florida), together with the best available GIS data as of 08-05-2015.
 - Property lines are derived from the best available GIS Parcel data as of 08-05-2015.

**100% PLANS
BID SET**

REVISION	BY	DATE
<i>Elliot Shores</i> / 3/1/21		

3/1/21

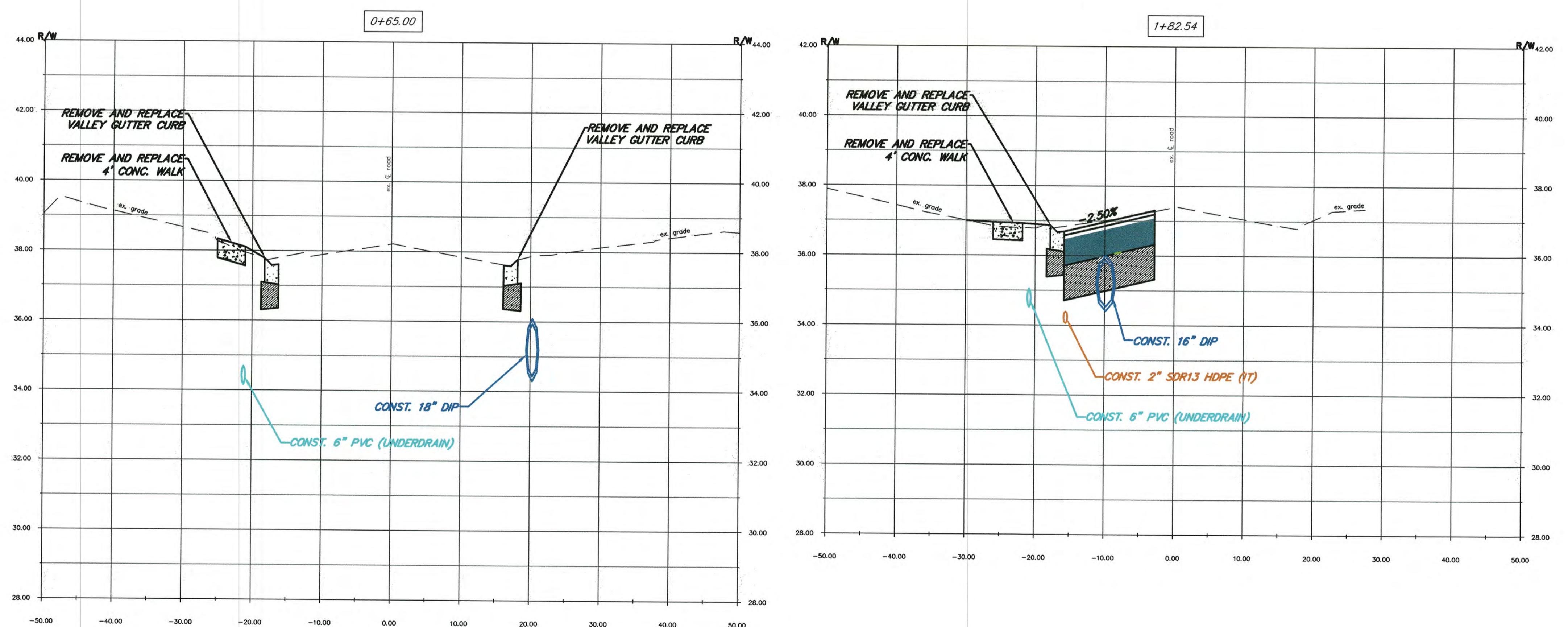
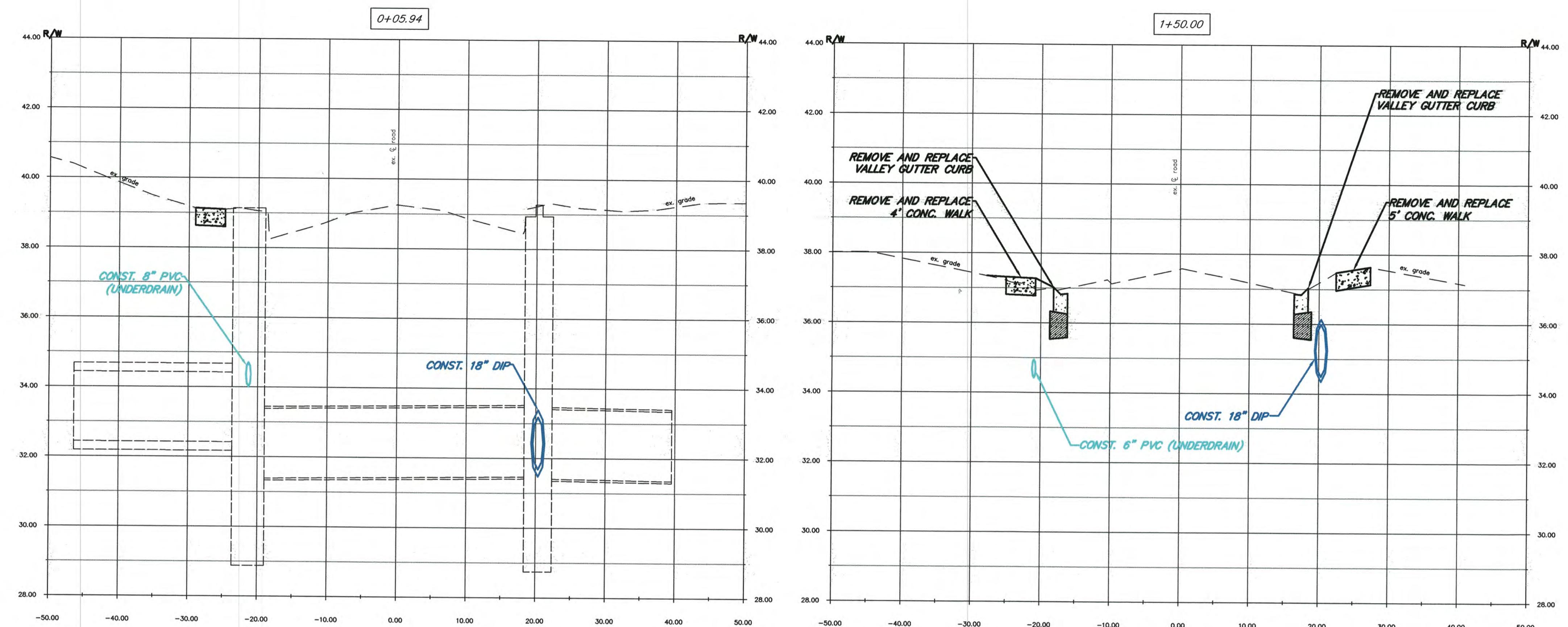
ELLIOT SHORES
REGISTERED PROFESSIONAL ENGINEER
PROFESSIONAL ENGINEER NUMBER PE 56746
STATE OF FLORIDA

CITY OF CLEARWATER, FLORIDA
ENGINEERING DEPARTMENT
100 S. Myrtle Ave.
Clearwater, Fl 33756



Bypass Drive Improvements
Plan and Profile – IT Conduit
Bypass Drive Alignment 8+00 Through 13+00

DWG NAME: 2015030-DSGN	FIELD BOOK: 580	SURVEYED BY: SR	SCALE: VERT. 1" = 2' HORIZ. 1" = 20'
CONTRACT NO.: 15-0021-EN	DATE DRAWN: 05-27-2016	DRAWN BY: DDM, JR	
JOB NO.: 2015030	DESIGNED BY: JWS	CHECKED BY: PWD	SHEET NO.: 15 OF 27
APPROVED BY: <i>[Signature]</i>			DATE: 05-27-2016



NOTE: Fill not anticipated.

100% PLANS
BID SET

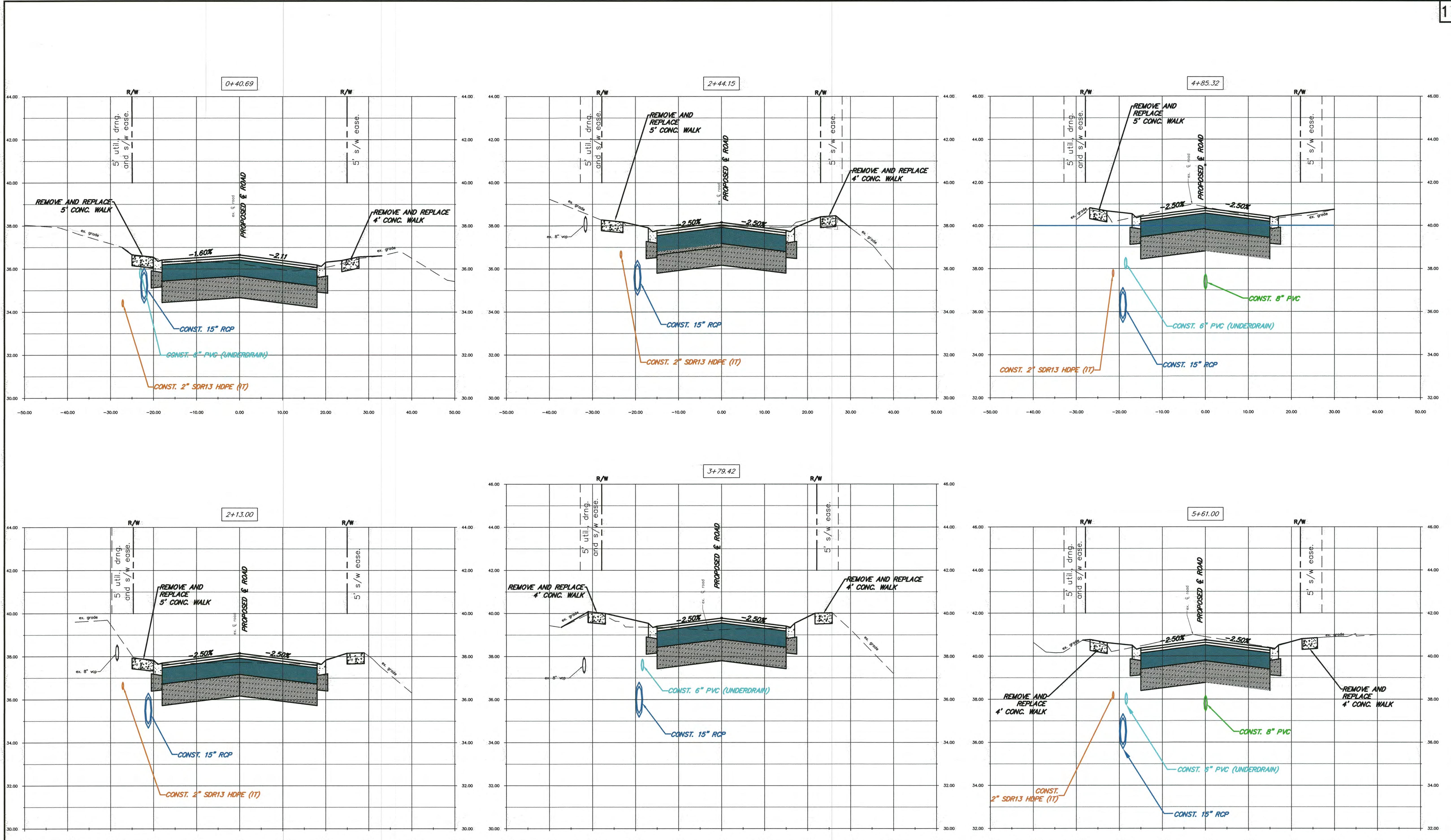
<i>Elliott Shoberg</i>	3/1/11	DATE SIGNED
REVISION	BY	DATE

CITY OF CLEARWATER, FLORIDA
ENGINEERING DEPARTMENT
100 S. Myrtle Ave.
Clearwater, FL 33756



Bypass Drive Improvements
Cross Sections
Druid Road Alignment 0+00 Through 2+75

DWG NAME:	FIELD BOOK:	SURVEYED BY:	SCALE:
2015030-DSGN	580	SR	VERT. 1" = 2"
CONTRACT NO.:	DATE DRAWN:	DRAWN BY:	HORZ. 1" = 10'
15-0021-EN	05-27-2016	DDM, JR	
JOB NO.:	DESIGNED BY:	CHECKED BY:	SHEET NO.:
2015030	JWS	PWD	16 OF 27
APPROVED BY _____		DATE _____	



NOTE: Fill not anticipated.

REVISION	BY	DATE
 MATT PHAIR 3/11/21		
SIGHT-SHED REGISTERED PROFESSIONAL ENGINEER PROFESSIONAL ENGINEER NUMBER PE 58746 STATE OF FLORIDA		

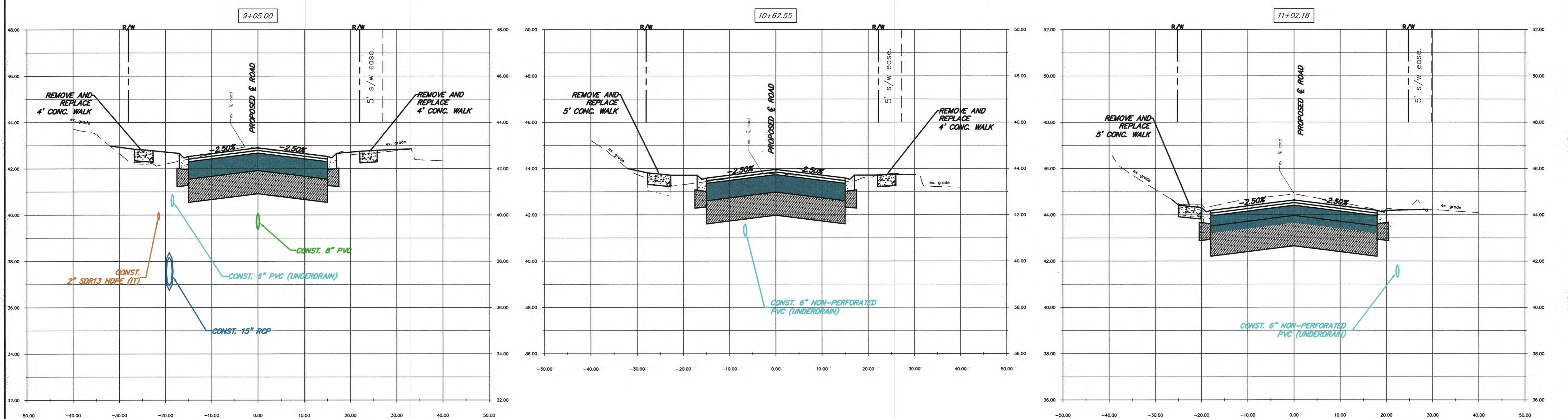
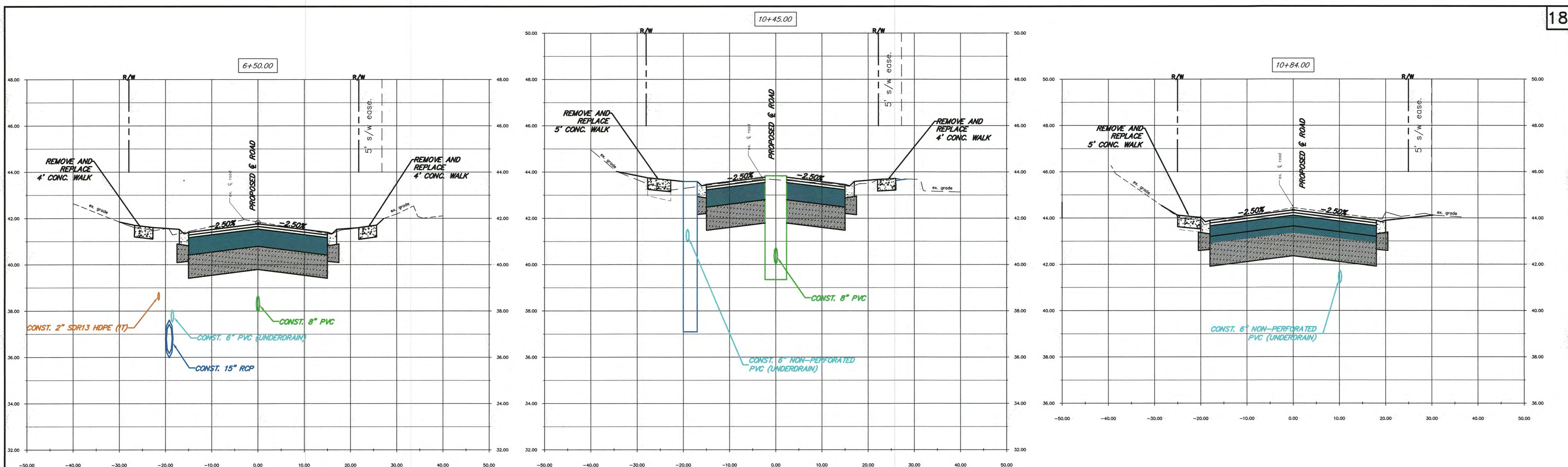
DATE SIGNED
3/11/21

CITY OF CLEARWATER, FLORIDA
ENGINEERING DEPARTMENT
100 S. Myrtle Ave.
Clearwater, Fl 33756



Bypass Drive Improvements
Cross Sections
Bypass Drive Alignment 0+06 Through 5+61

DWG NAME:	2015030-DSGN	FIELD BOOK:	580	SURVEYED BY:	SR	SCALE:	VERT. 1" = 2'
CONTRACT NO.:	15-0021-EN	DATE DRAWN:	05-27-2016	DRAWN BY:	DDM, JR	HORIZ. 1" = 10'	
JOB NO.:	2015030	DESIGNED BY:	JWS	CHECKED BY:	PWD	SHEET NO.:	17 OF 27
APPROVED BY:							



**100% PLANS
BID SET**

NOTE: Fill not anticipated.

REVISION	BY	DATE
<i>Elliott P. Kelly 3/11/11</i>		
ELLIOTT KELLY	REGISTERED PROFESSIONAL ENGINEER	PROFESSIONAL ENGINEER NUMBER PE 58746
STATE OF FLORIDA		

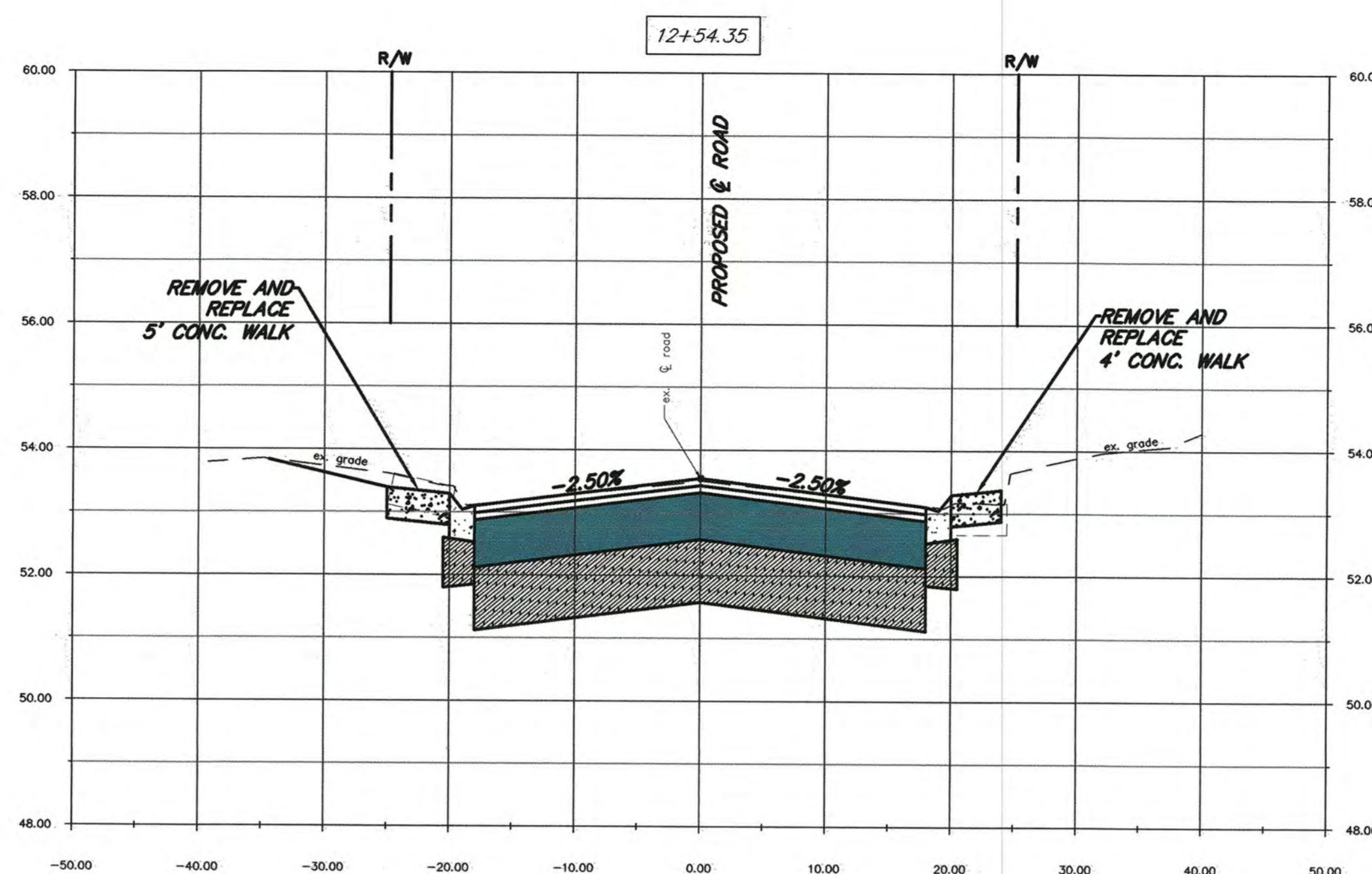
REVISION	BY	DATE
<i>3/11/11</i>		

CITY OF CLEARWATER, FLORIDA
ENGINEERING DEPARTMENT
100 S. Myrtle Ave.
Clearwater, Fl 33756



Bypass Drive Improvements Cross Sections Bypass Drive Alignment 6+50 Through 11+05

DWG NAME:	FIELD BOOK:	SURVEYED BY:	SCALE:
2015030-DSGN	580	SR	VERT. 1" = 2'
CONTRACT NO.:	DATE DRAWN:	DRAWN BY:	HORIZ. 1" = 20'
15-0021-EN	05-27-2016	DDM, JR	
JOB NO.:	DESIGNED BY:	CHECKED BY:	SHEET NO.:
2015030	JWS	PWD	18 OF 27
APPROVED BY:			



NOTE: Fill not anticipated.

		 ELLIOT SHOBERG REGISTERED PROFESSIONAL ENGINEER PROFESSIONAL ENGINEER NUMBER PE 56746 STATE OF FLORIDA	DATE SIGNED 3/1/14
REVISION	BY		

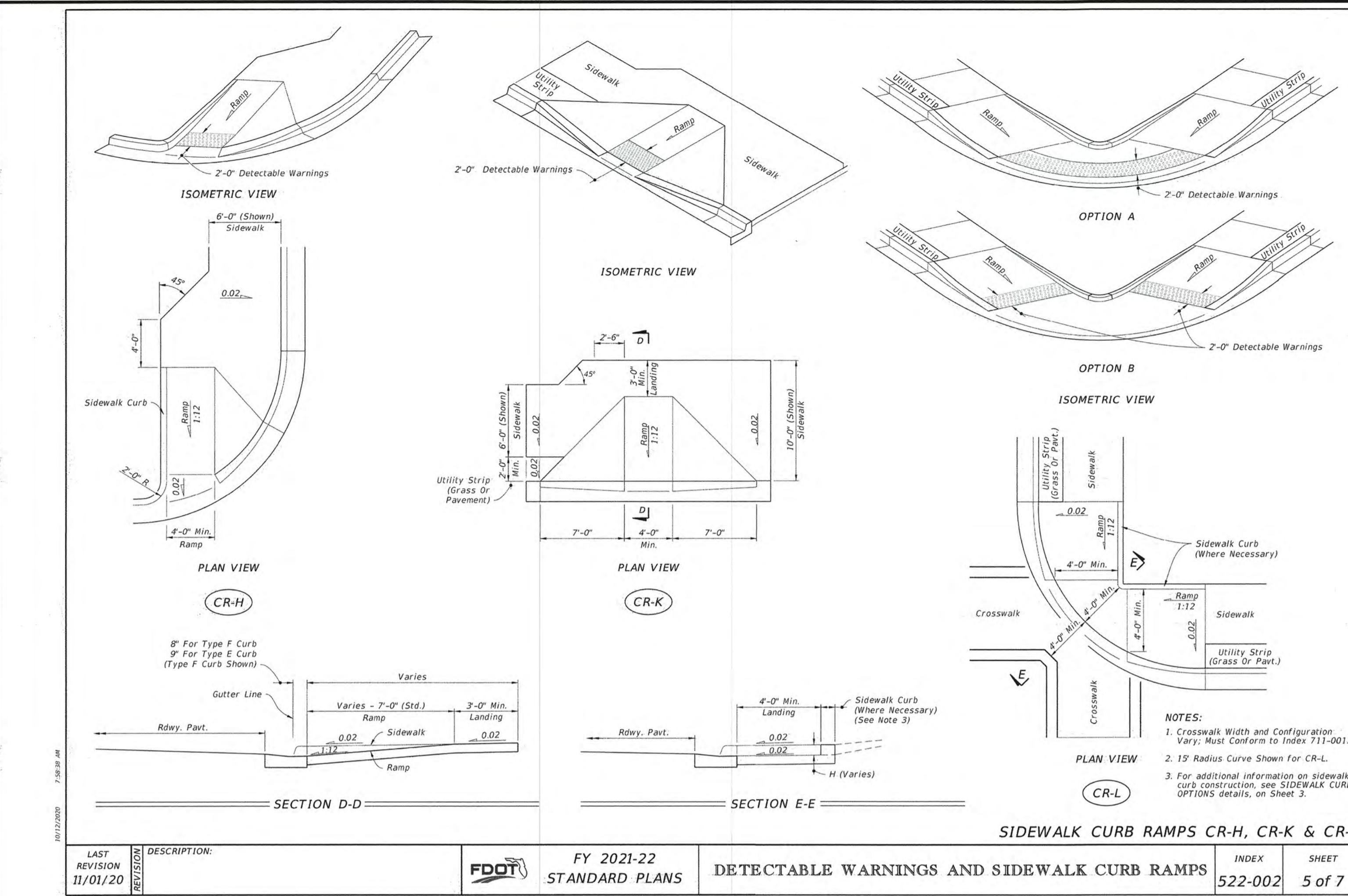
CITY OF CLEARWATER, FLORIDA
 ENGINEERING DEPARTMENT
 100 S. Myrtle Ave.
 Clearwater, Fl 33756



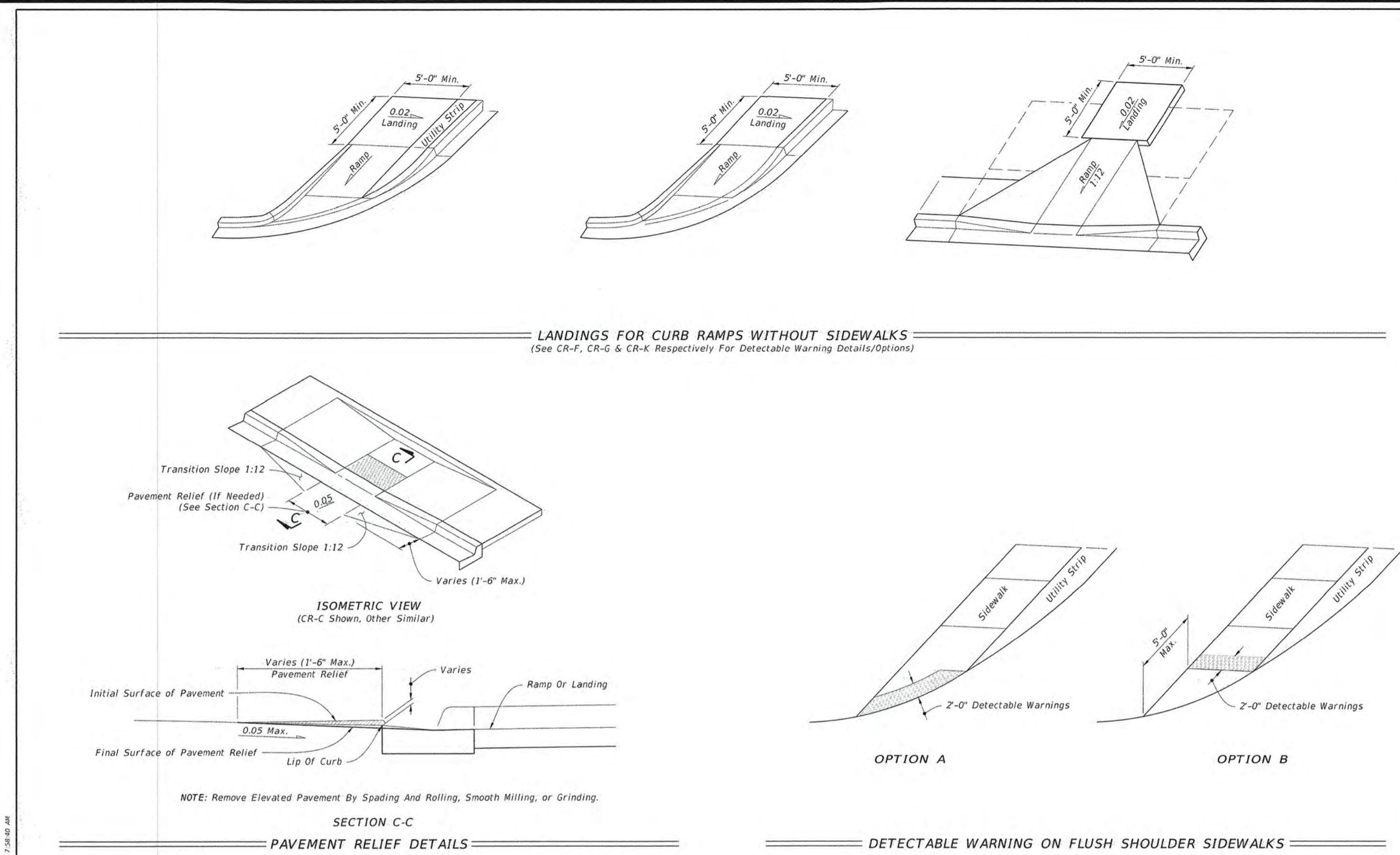
Bypass Drive Improvements
 Cross Sections
 Bypass Drive Alignment 12+54 Through 12+75

*100% PLANS
 BID SET*

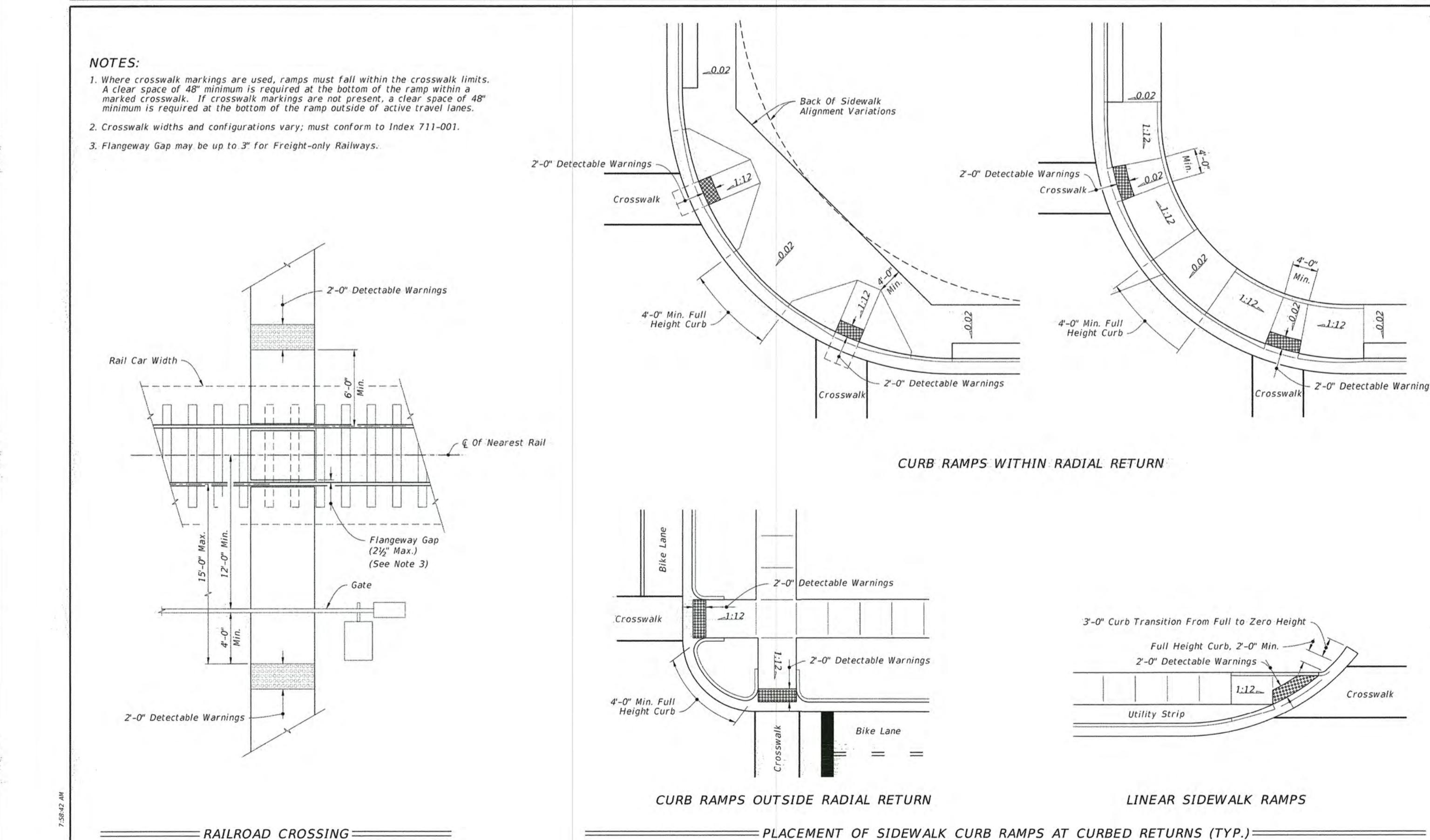
DWG NAME:	FIELD BOOK:	SURVEYED BY:	SCALE:
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CONTRACT NO.:	DATE DRAWN:	DRAWN BY:	2015-0021-EN 03-27-2016 DDM, JR
JOB NO.:	DESIGNED BY:	CHECKED BY:	2015030 JWS PWD SHEET NO. 19 OF 27
APPROVED BY:			
			DATE



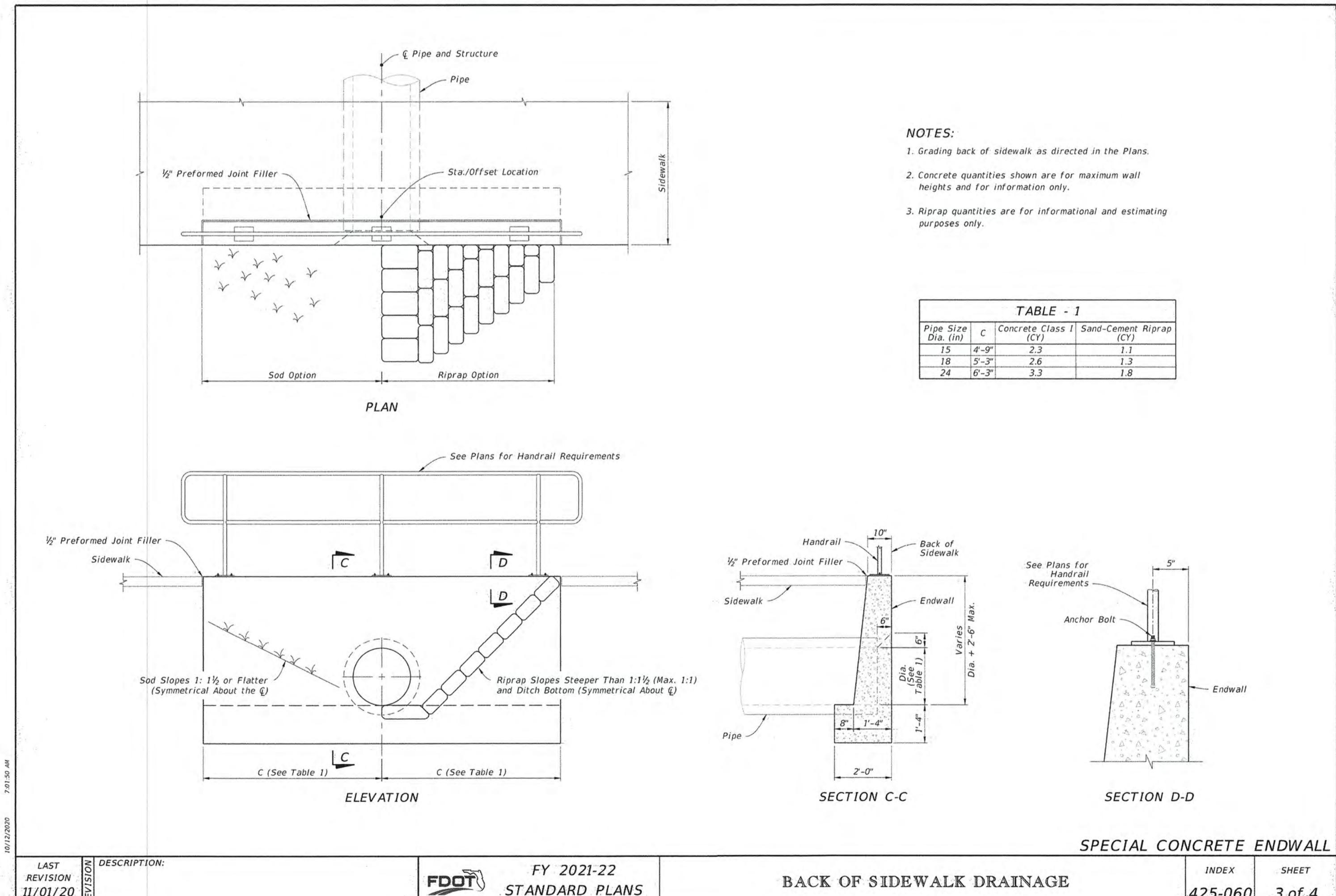
LAST REVISION: 11/01/2020
DESCRIPTION: FY 2021-22 STANDARD PLANS DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS INDEX 522-002 SHEET 5 of 7



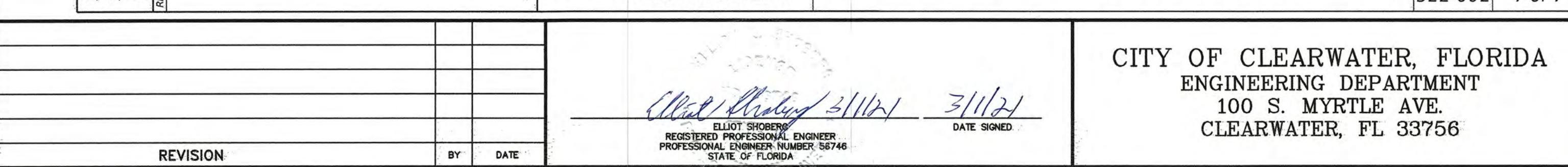
LAST REVISION: 11/01/2020
DESCRIPTION: FY 2021-22 STANDARD PLANS DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS INDEX 522-002 SHEET 6 of 7



LAST REVISION: 11/01/2020
DESCRIPTION: FY 2021-22 STANDARD PLANS DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS INDEX 522-002 SHEET 7 of 7

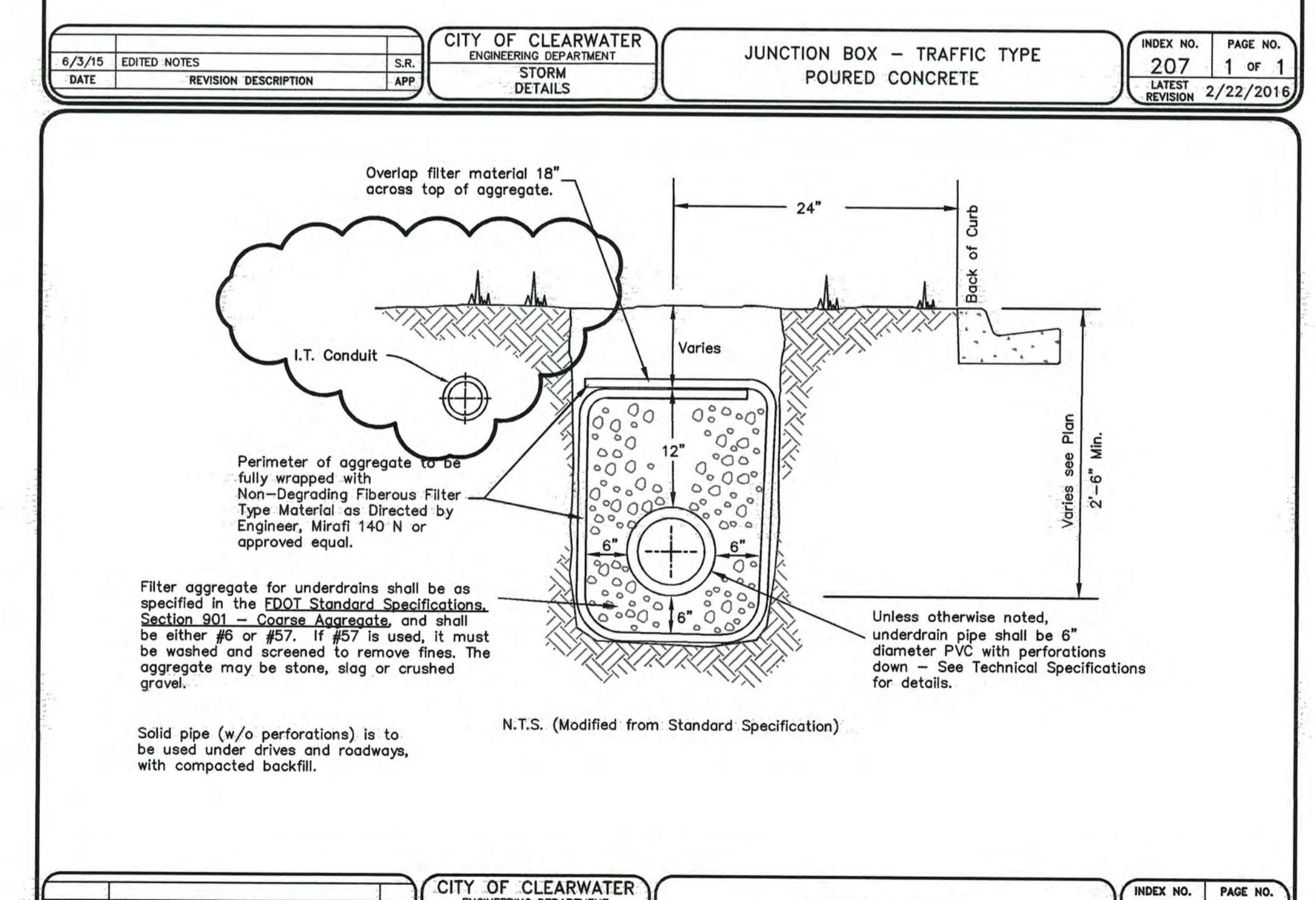
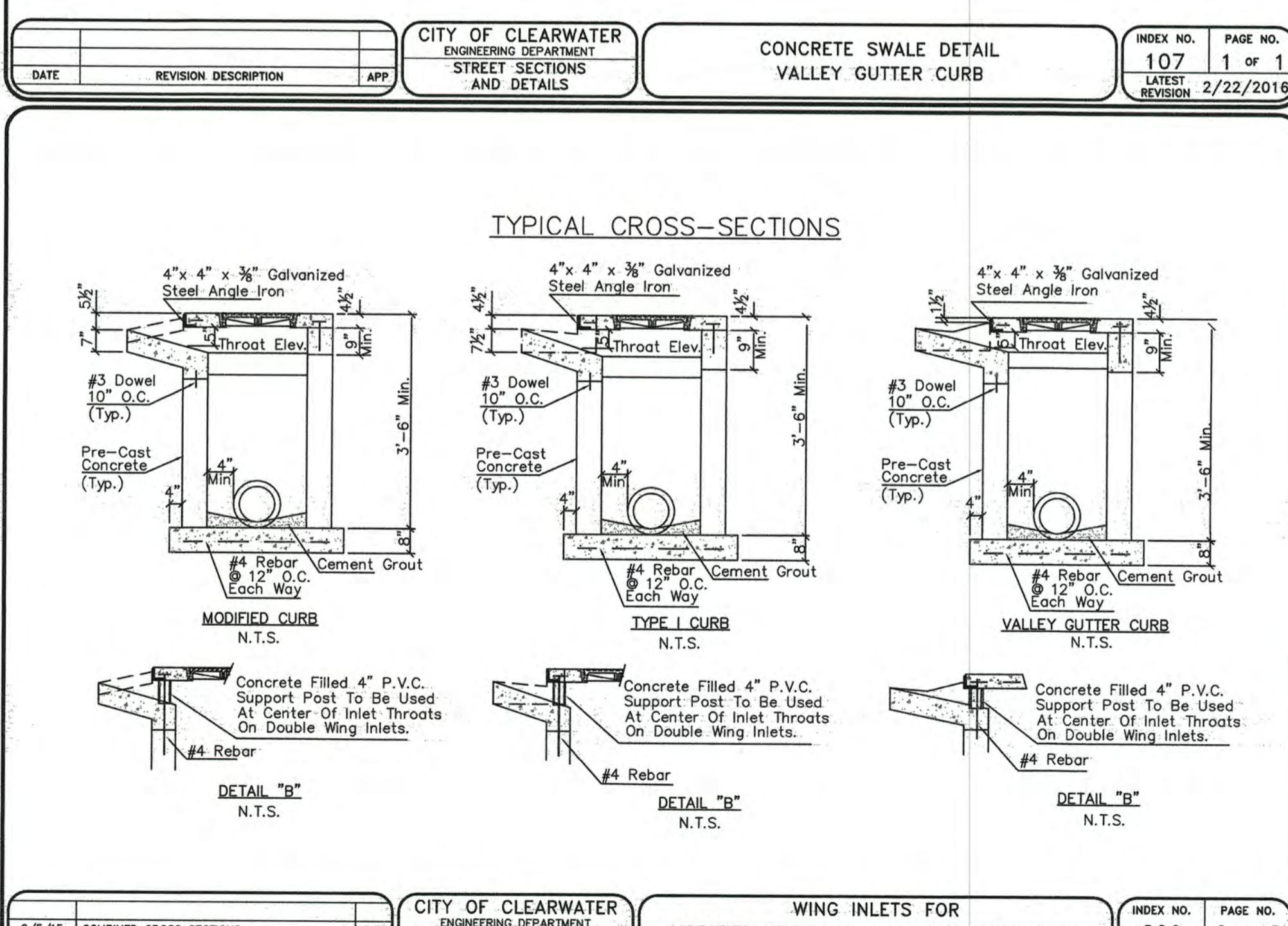
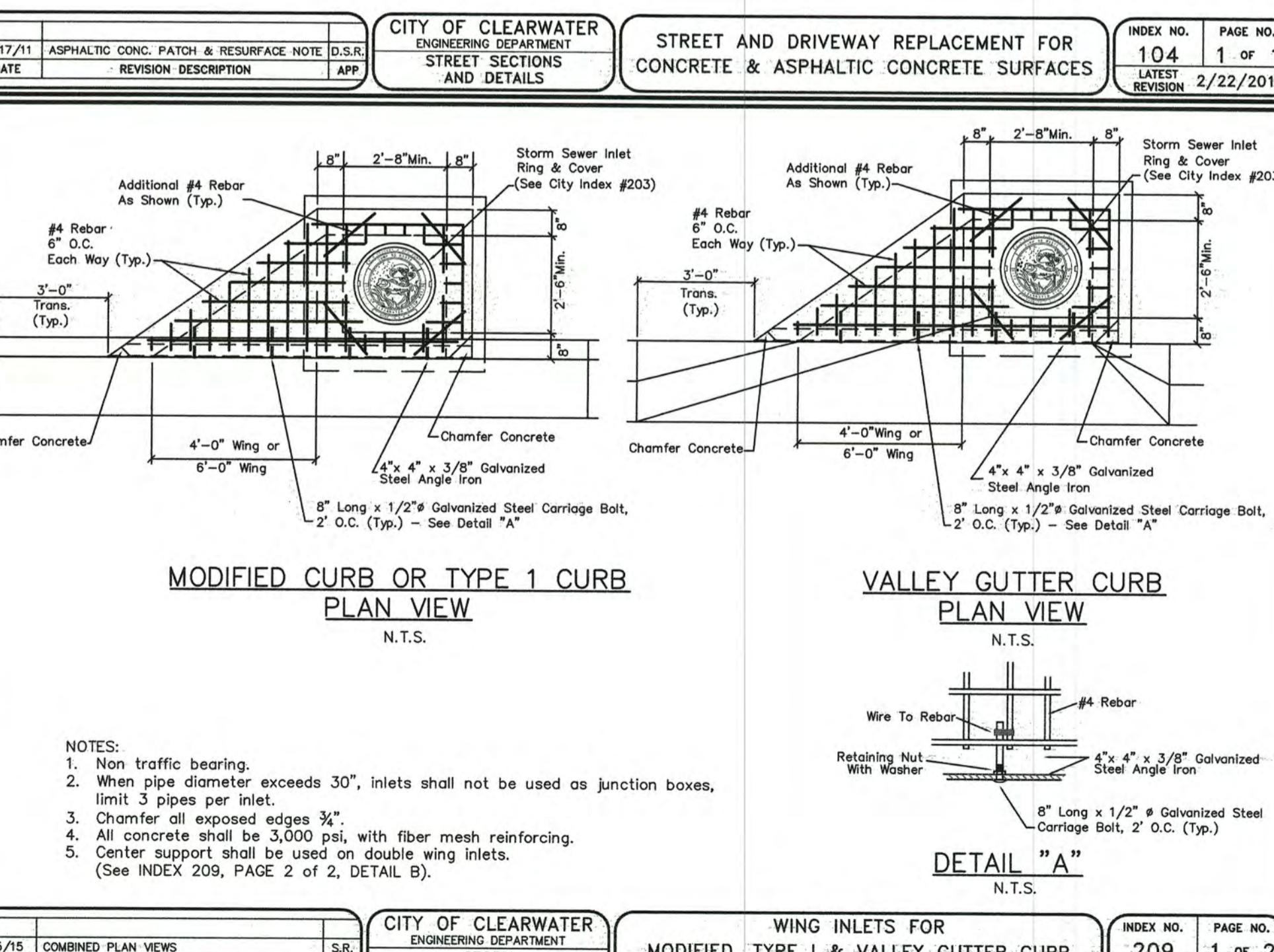
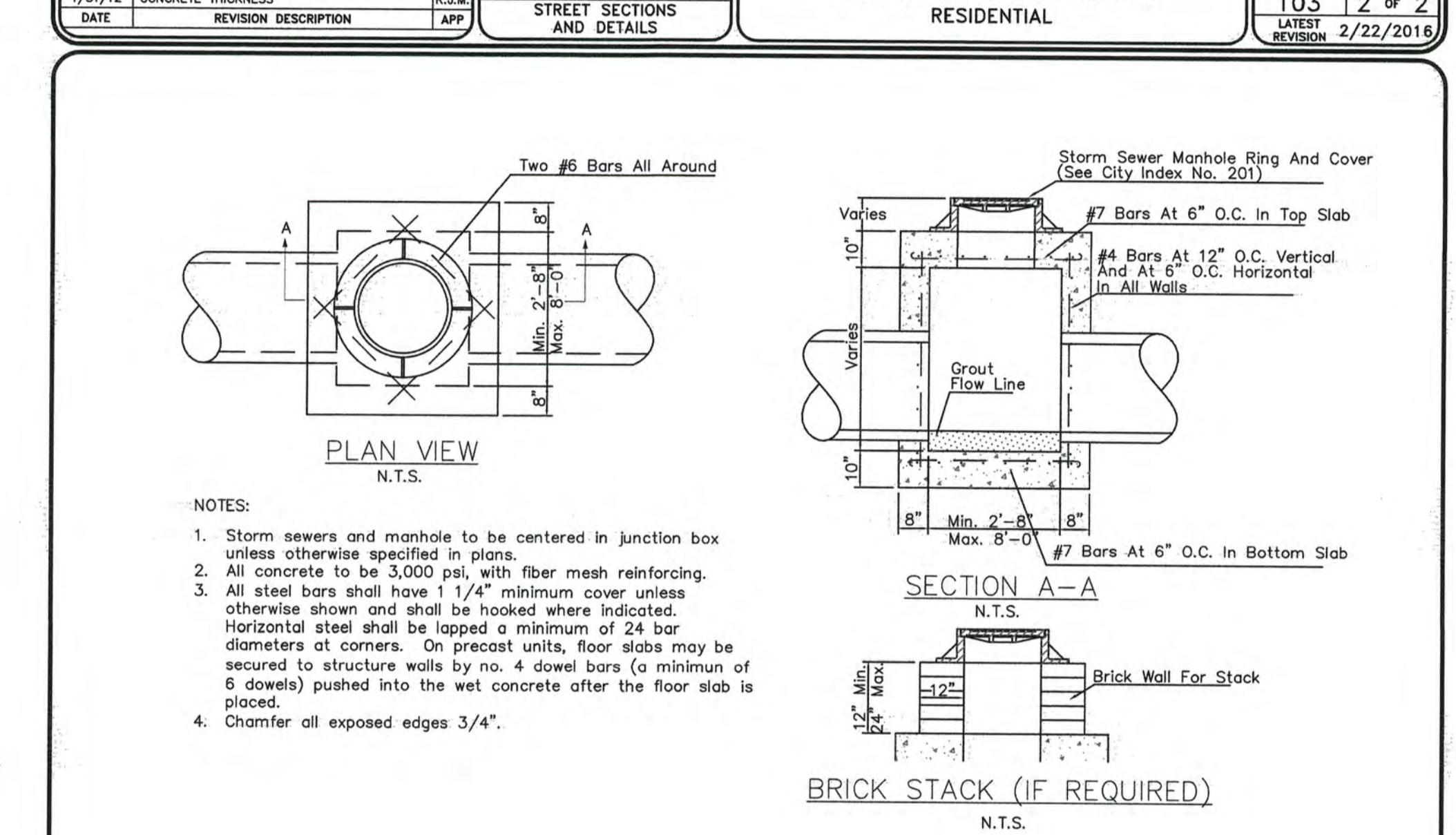
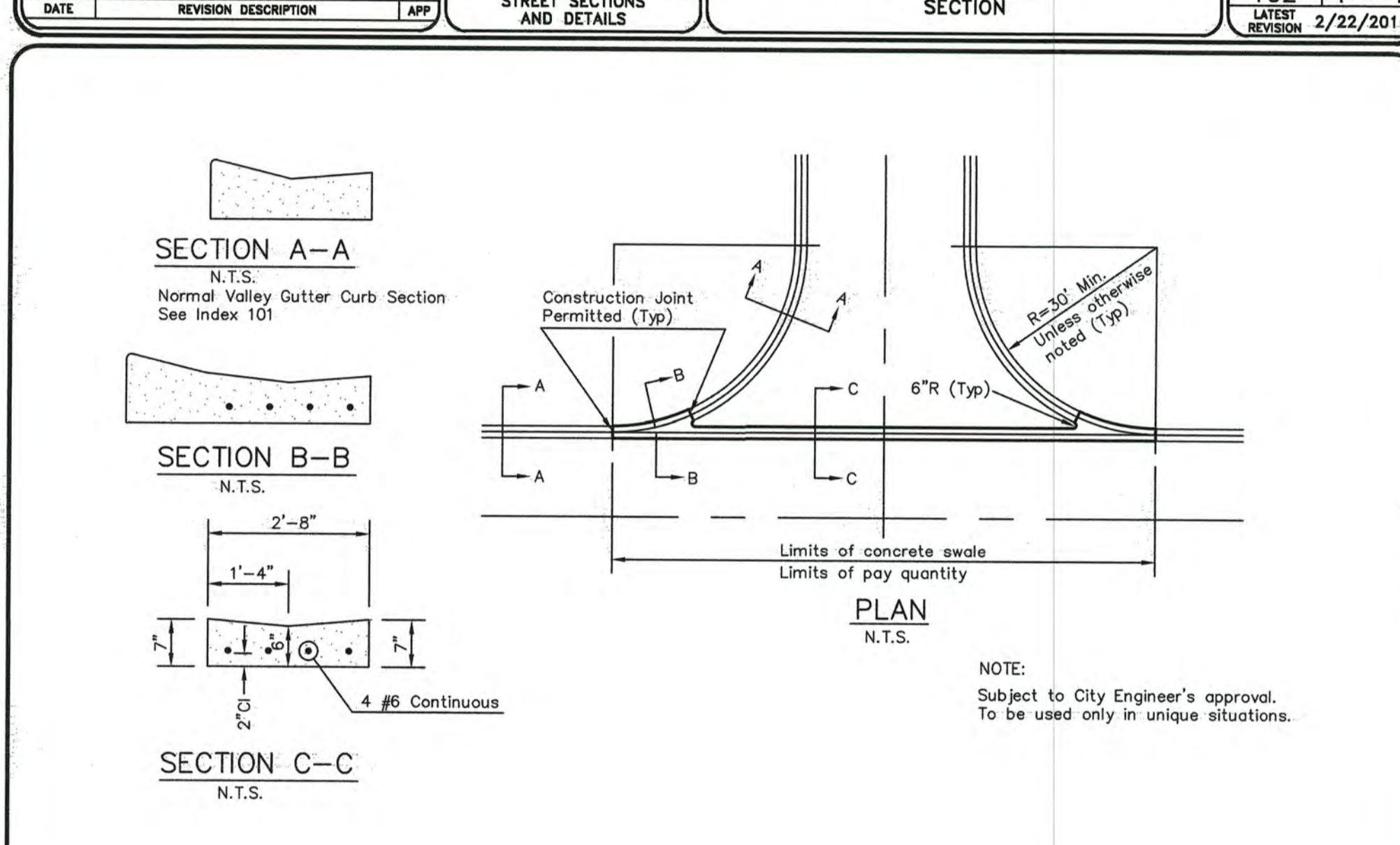
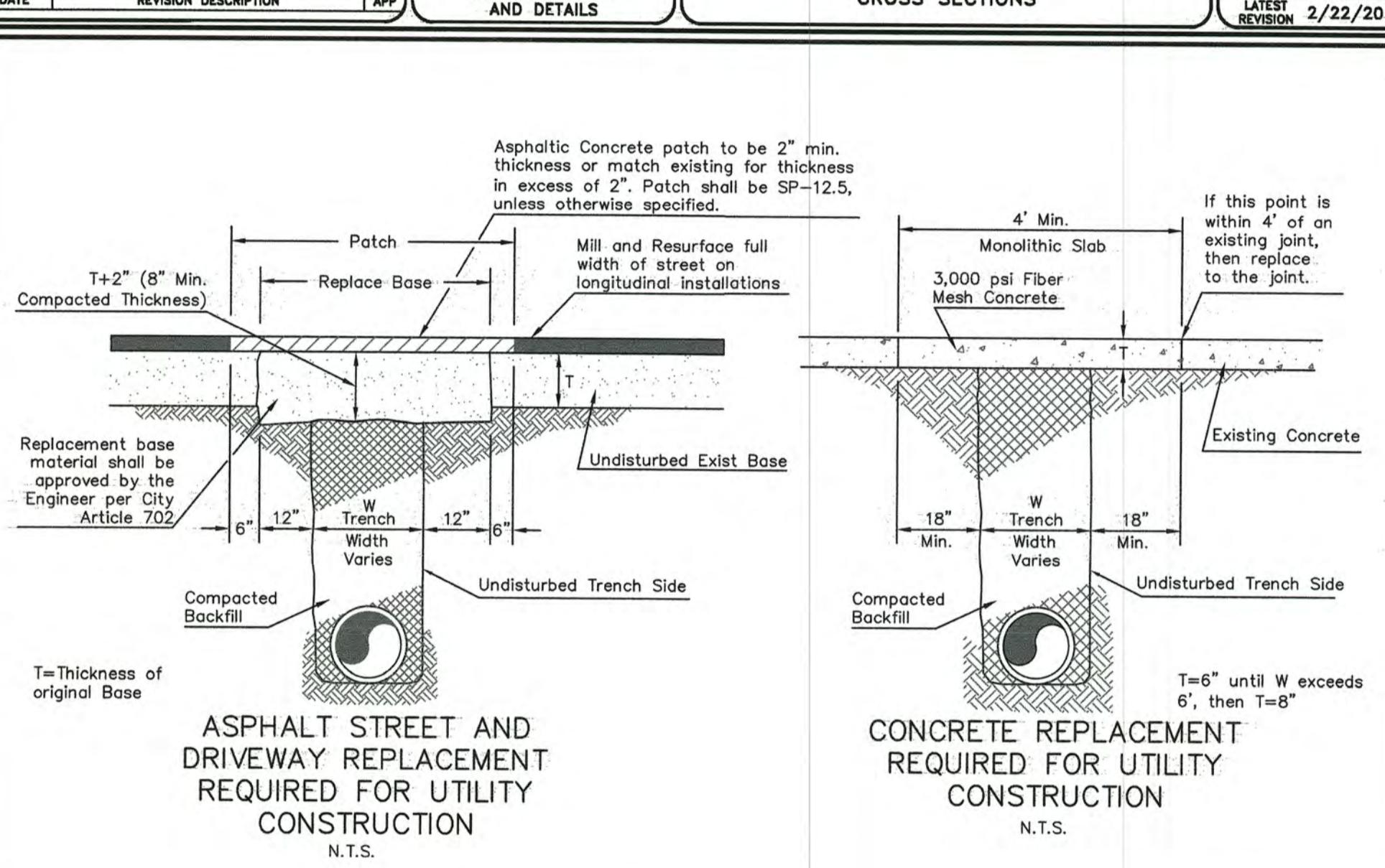
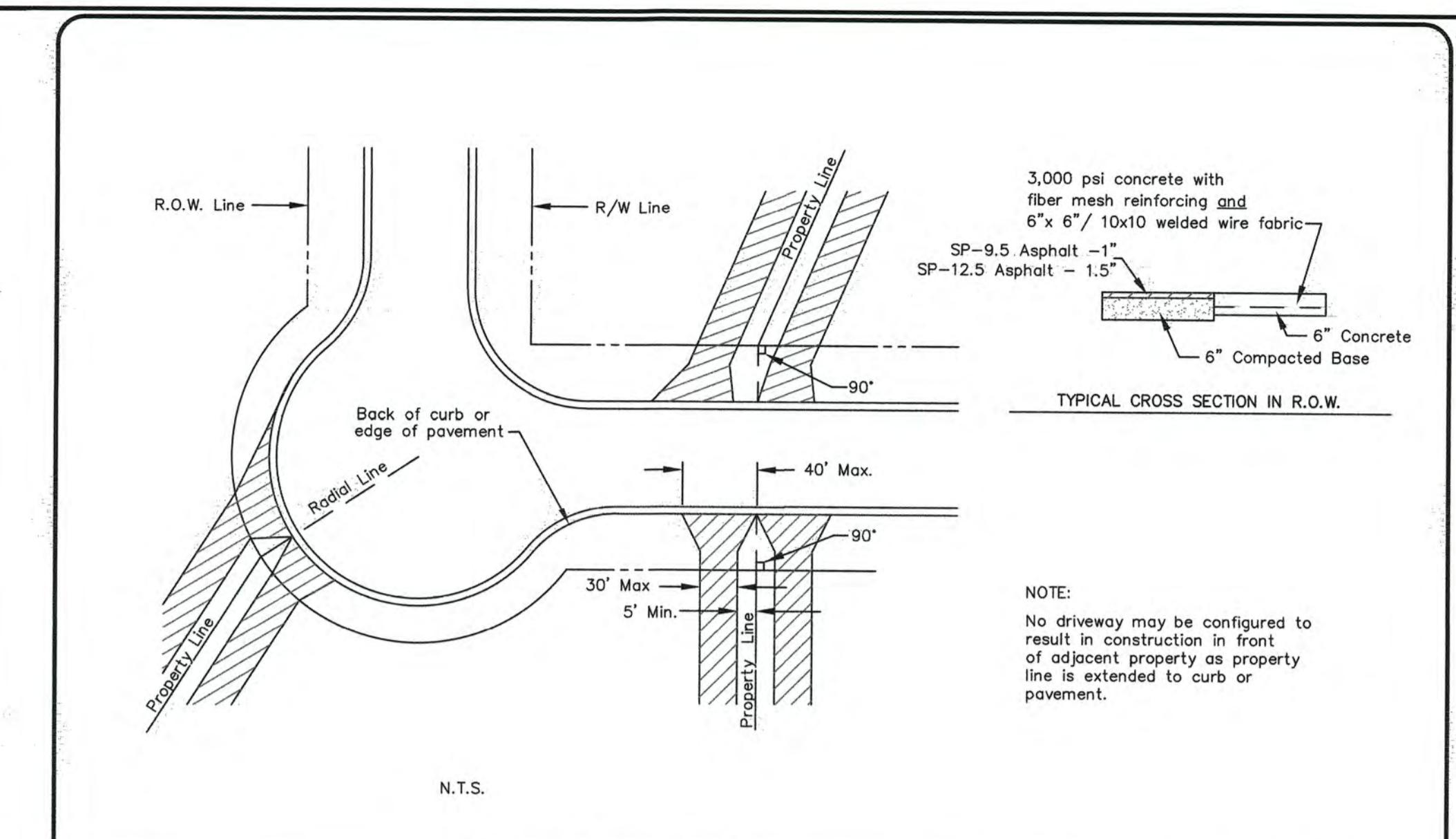
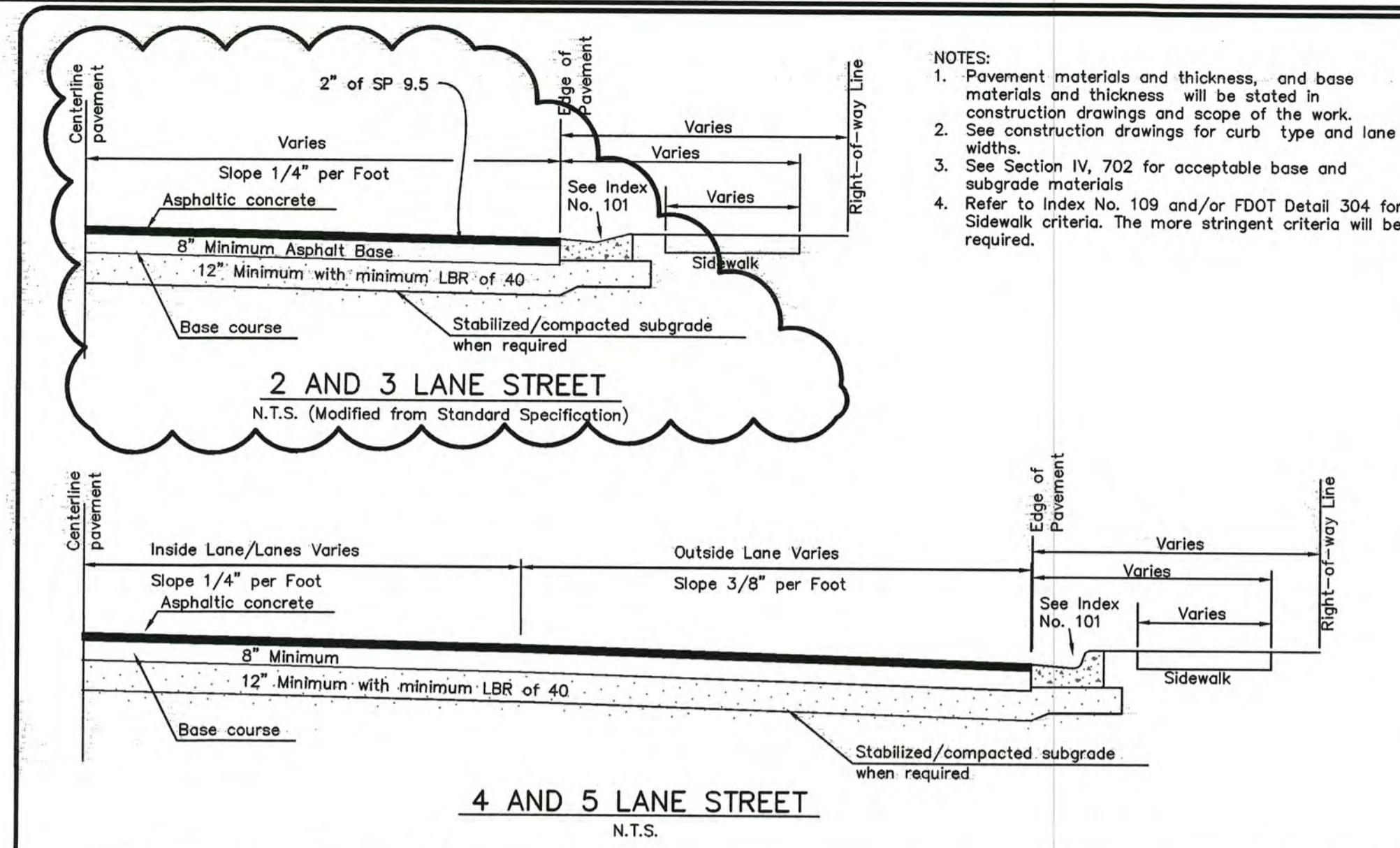
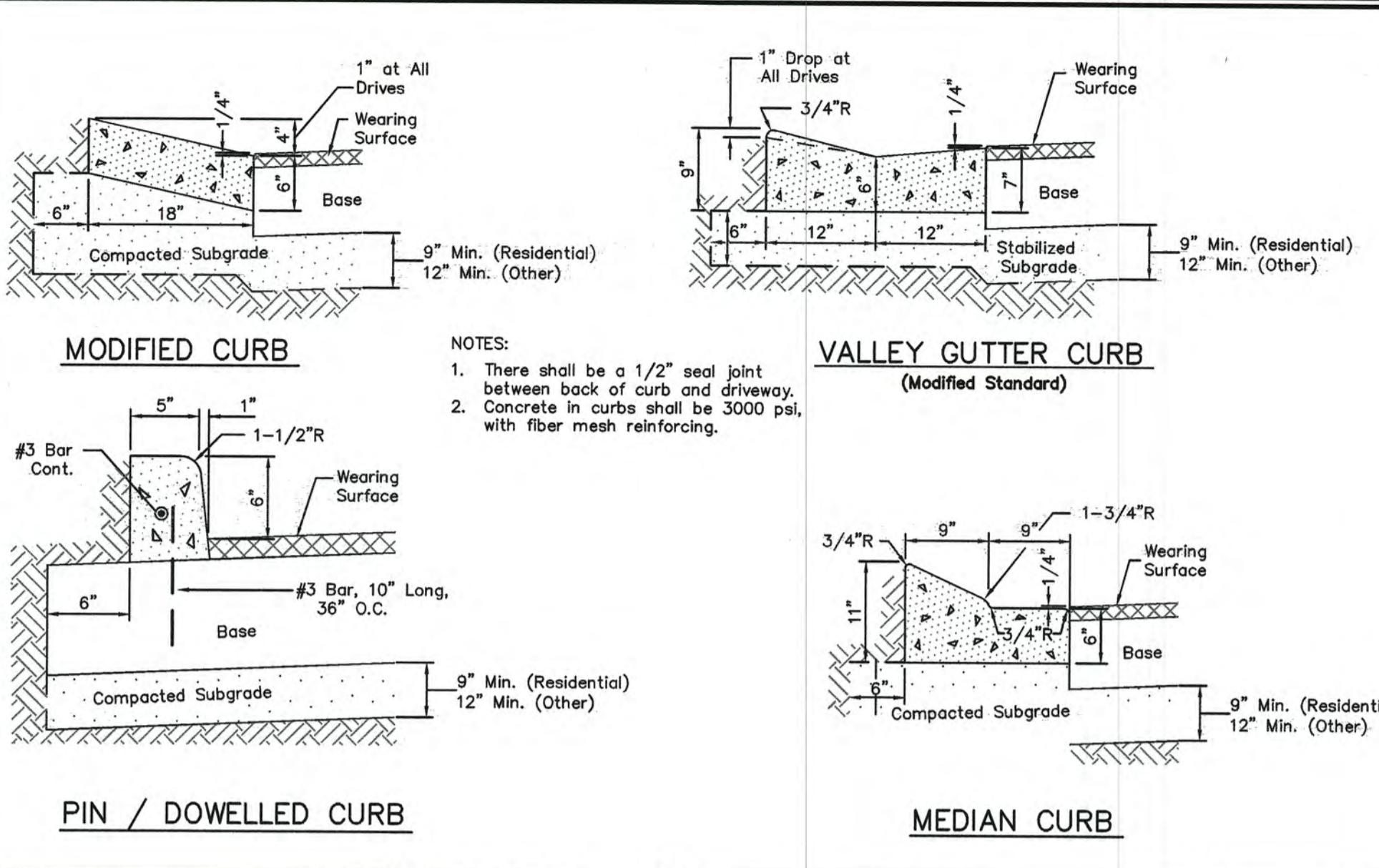


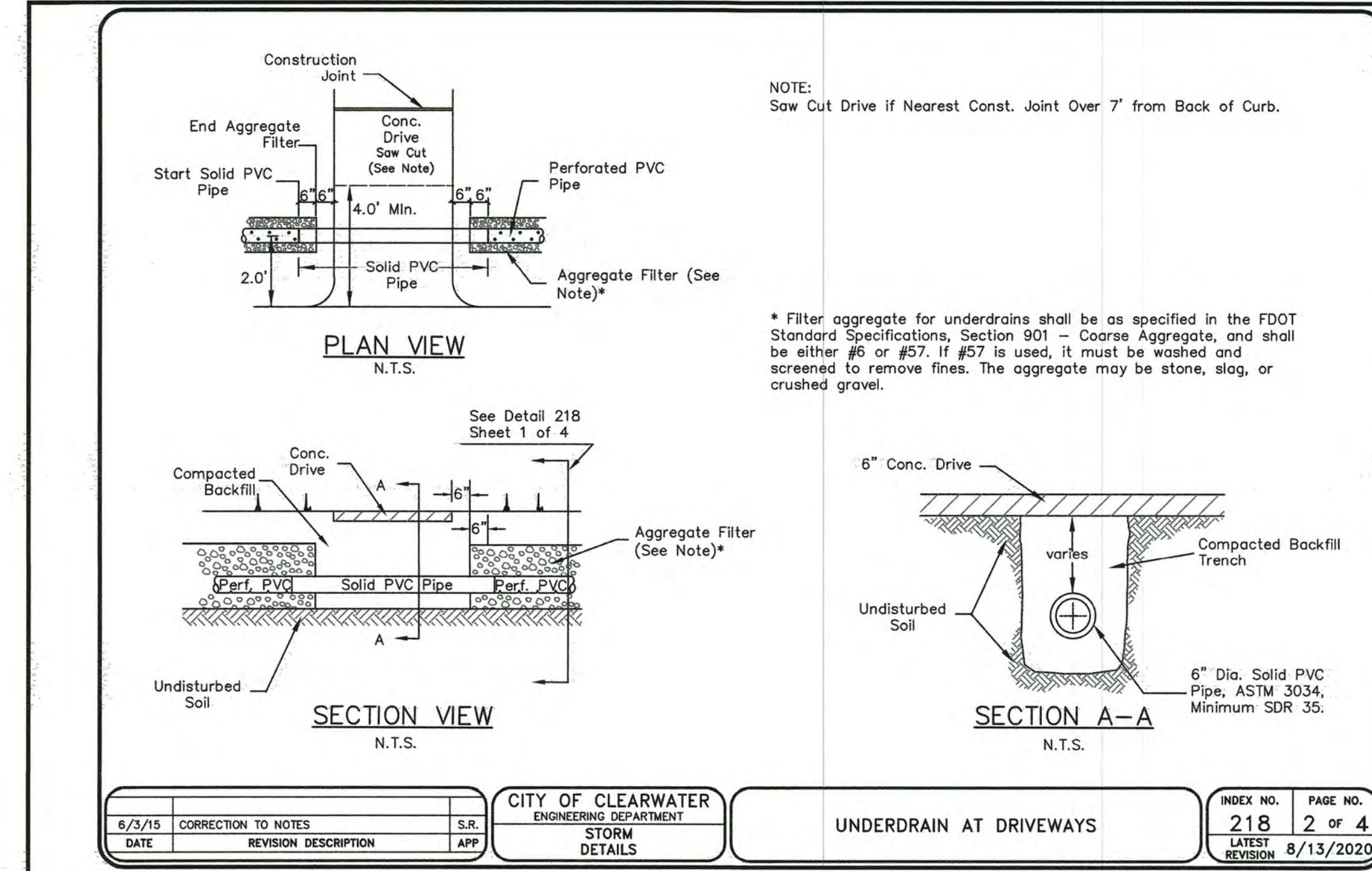
LAST REVISION: 11/01/2020
DESCRIPTION: FY 2021-22 STANDARD PLANS BACK OF SIDEWALK DRAINAGE INDEX 425-060 SHEET 3 of 4



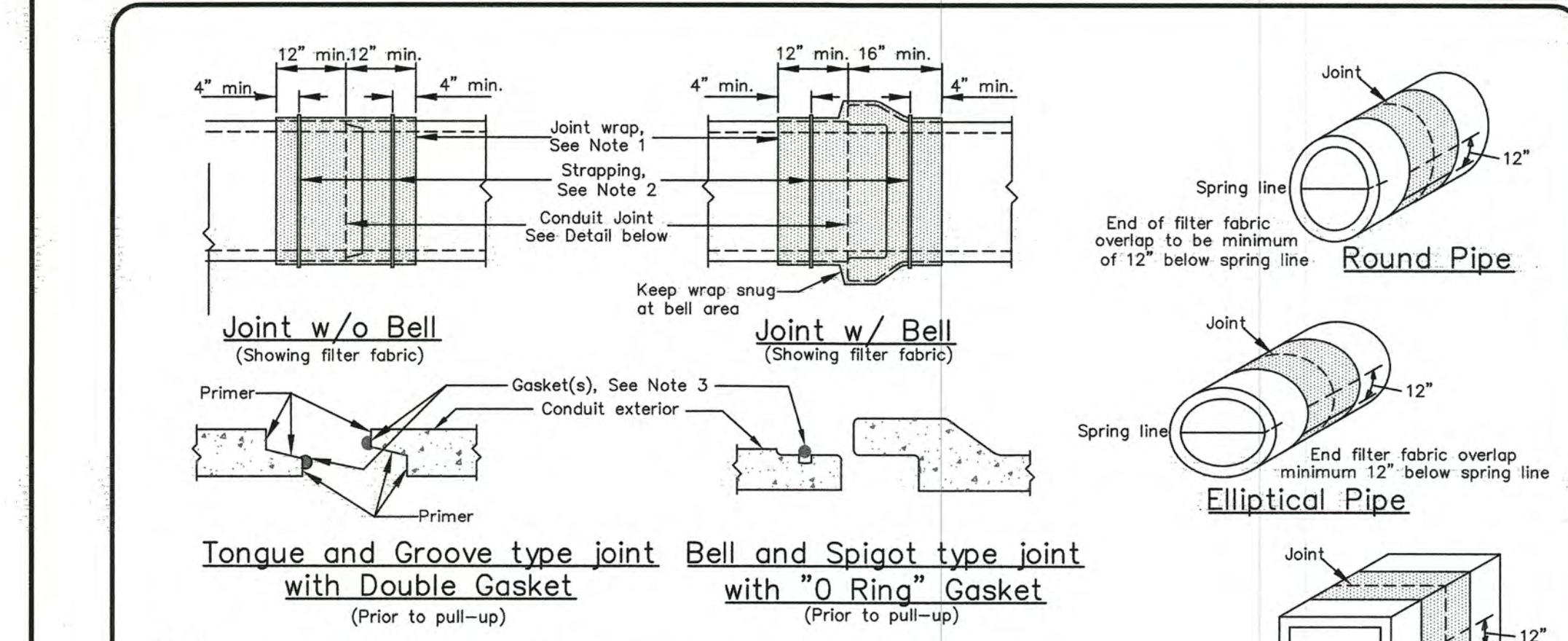
Bypass Drive Improvements
FDOT Details

DWG NAME:	FIELD BOOK:	SURVEYED BY:	SCALE:
2015030-DTLS	580	SR	VERT. N/A
15-0021-EN	04-18-2016	DDM, JR	HORIZ. 1" = 20'
2015030	Designed by: JWS	Checked by: PWD	Sheet No: 21 of 27
		Approved by: _____	

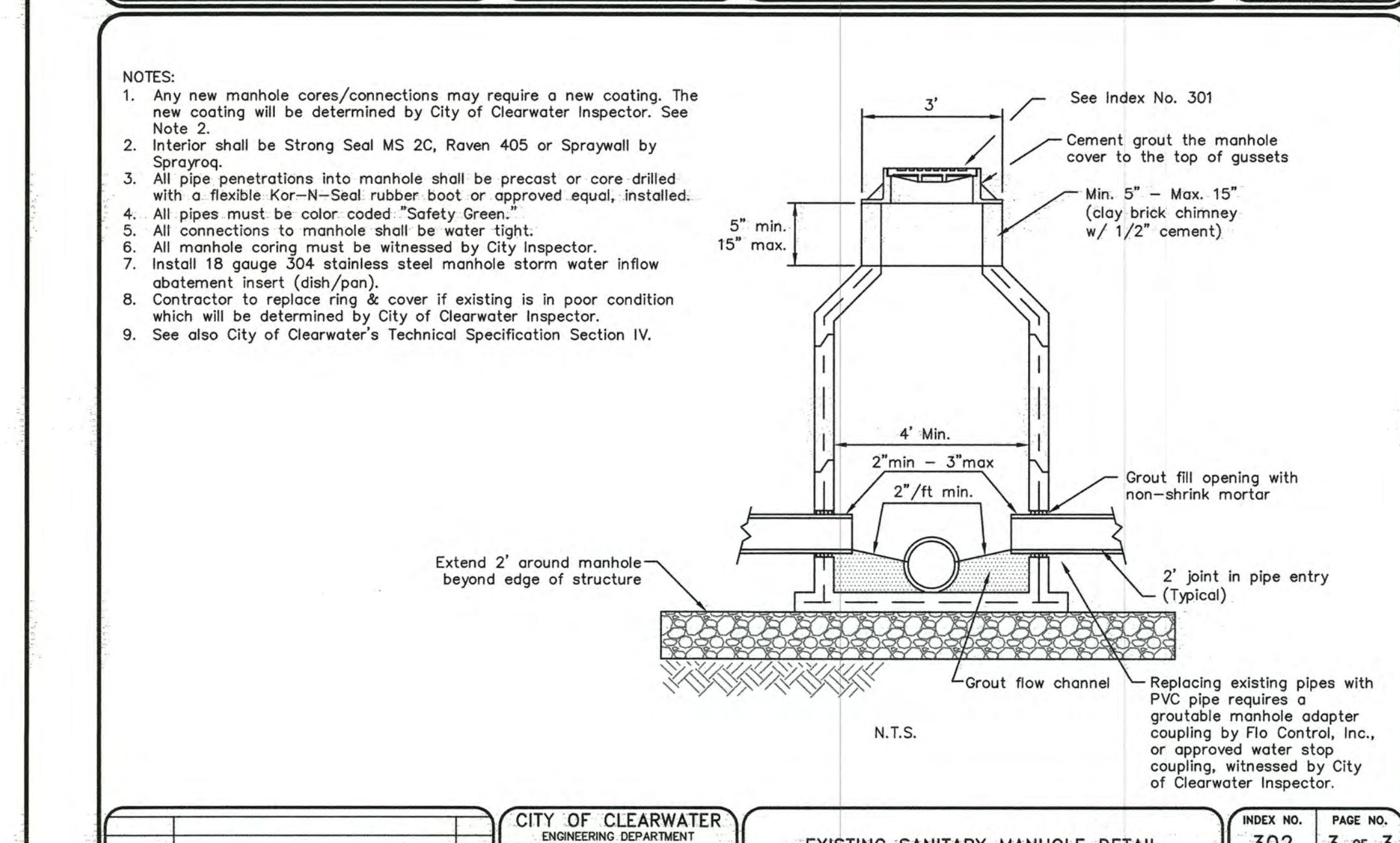




6/3/15	CORRECTION TO NOTES	S.R.	CITY OF CLEARWATER	INDEX NO.	218	PAGE NO.	2 of 4
DATE	REVISION DESCRIPTION	APP	ENGINEERING DEPARTMENT	STORM DETAILS			
UNDERDRAIN AT DRIVEWAYS							
INDEX NO. 218 LATEST REVISION 8/13/2020							



6/3/15	REV. NOTES	S.R.	CITY OF CLEARWATER	INDEX NO.	227	PAGE NO.	1 of 1
DATE	REVISION DESCRIPTION	APP	ENGINEERING DEPARTMENT	STORM DETAILS			
CONDUIT JOINT WRAP DETAIL							
INDEX NO. 227 LATEST REVISION 2/22/2016							



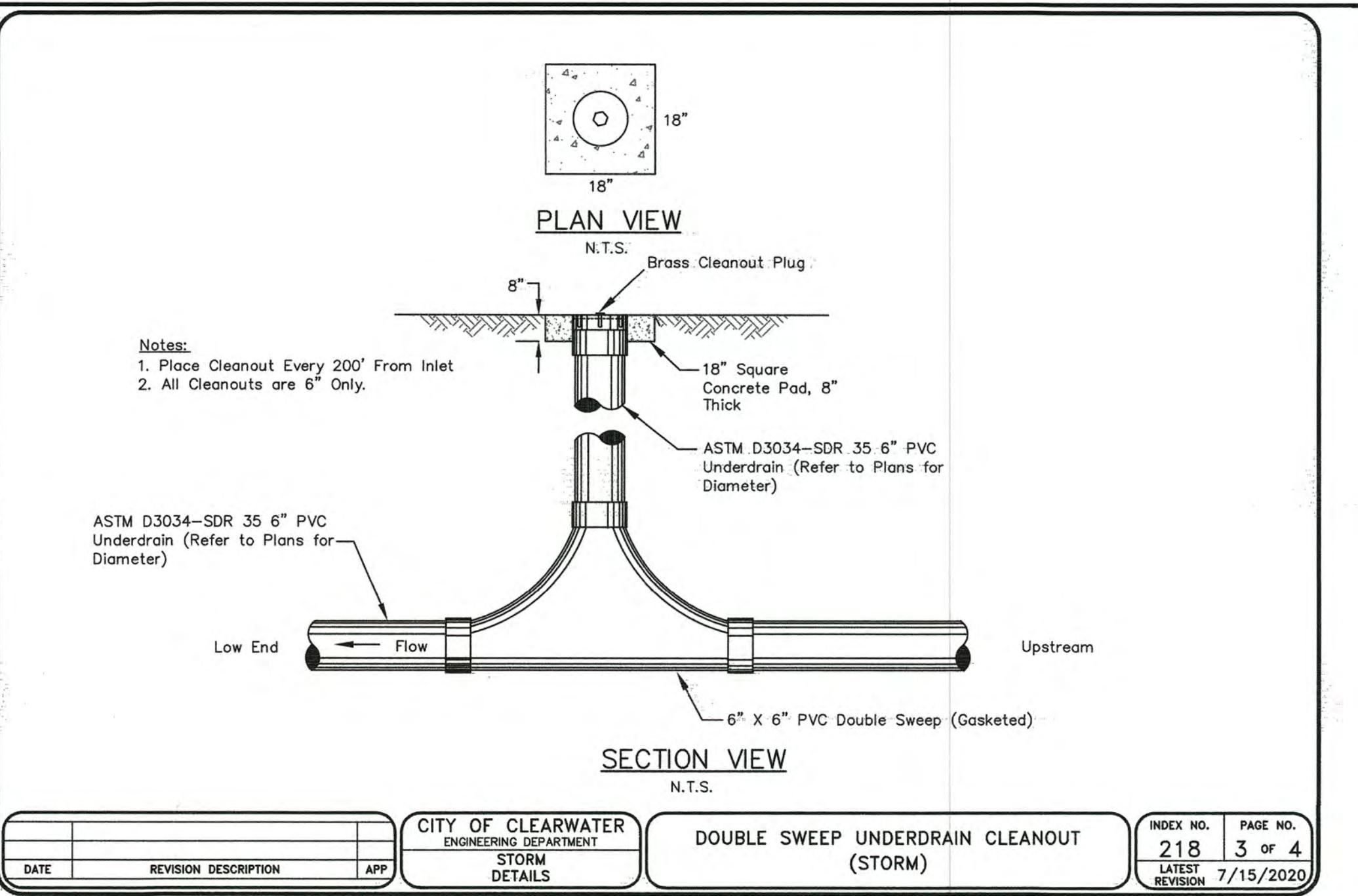
DATE	REVISION DESCRIPTION	APP	CITY OF CLEARWATER	INDEX NO.	302	PAGE NO.	3 of 3
			ENGINEERING DEPARTMENT	SANITARY SEWER DETAILS			
EXISTING SANITARY MANHOLE DETAIL							
INDEX NO. 302 LATEST REVISION 10/21/2019							

REVISION BY DATE

Elliot Mays 3/1/21 3/1/21

ELLIOT MAYS
REGISTERED PROFESSIONAL ENGINEER
PROFESSIONAL ENGINEER NUMBER 56746
STATE OF FLORIDA

DATE SIGNED



DATE	REVISION DESCRIPTION	APP	CITY OF CLEARWATER	INDEX NO.	218	PAGE NO.	3 of 4
			ENGINEERING DEPARTMENT	STORM DETAILS			
DOUBLE SWEEP UNDERDRAIN CLEANOUT (STORM)							
INDEX NO. 218 LATEST REVISION 7/15/2020							

REVISION DESCRIPTION APP

DATE LATEST REVISION 7/15/2020

See Index No. 301

Cement grout the manhole cover to the top of gussets

Brass Cleanout Plug

18" Square Concrete Pad, 8" Thick

ASTM D3034-SDR 35 6" PVC Underdrain (Refer to Plans for Diameter)

Low End Flow

Upstream

6" X 6" PVC Double Sweep (Gasketed)

SECTION VIEW N.T.S.

See Index No. 301

Cement grout the manhole cover to the top of gussets

Brass Cleanout Plug

18" Square Concrete Pad, 8" Thick

ASTM D3034-SDR 35 6" PVC Underdrain (Refer to Plans for Diameter)

Two-6"-1/16 (22") Street Els

6" X 6" PVC Wye (Gasketed)

6" Cemented Cap

SECTION VIEW N.T.S.

See Index No. 301

Cement grout the manhole cover to the top of gussets

Brass Cleanout Plug

18" Square Concrete Pad, 8" Thick

ASTM D3034-SDR 35 6" PVC Underdrain (Refer to Plans for Diameter)

6" X 6" PVC Wye (Gasketed)

6" Cemented Cap

SECTION VIEW N.T.S.

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6" Cemented Cap

SECTION VIEW N.T.S.

See Index No. 301

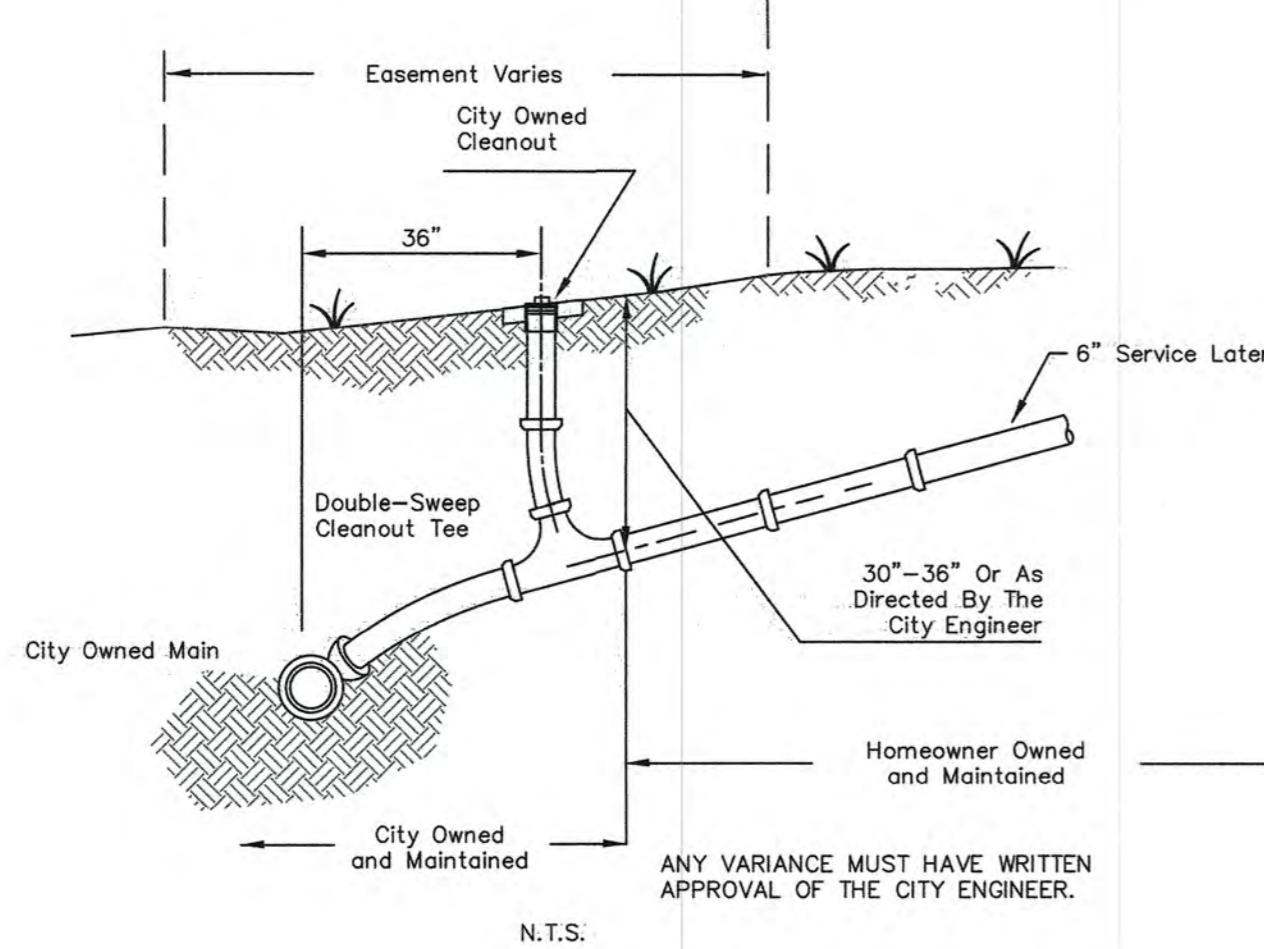
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Brass Cleanout Plug

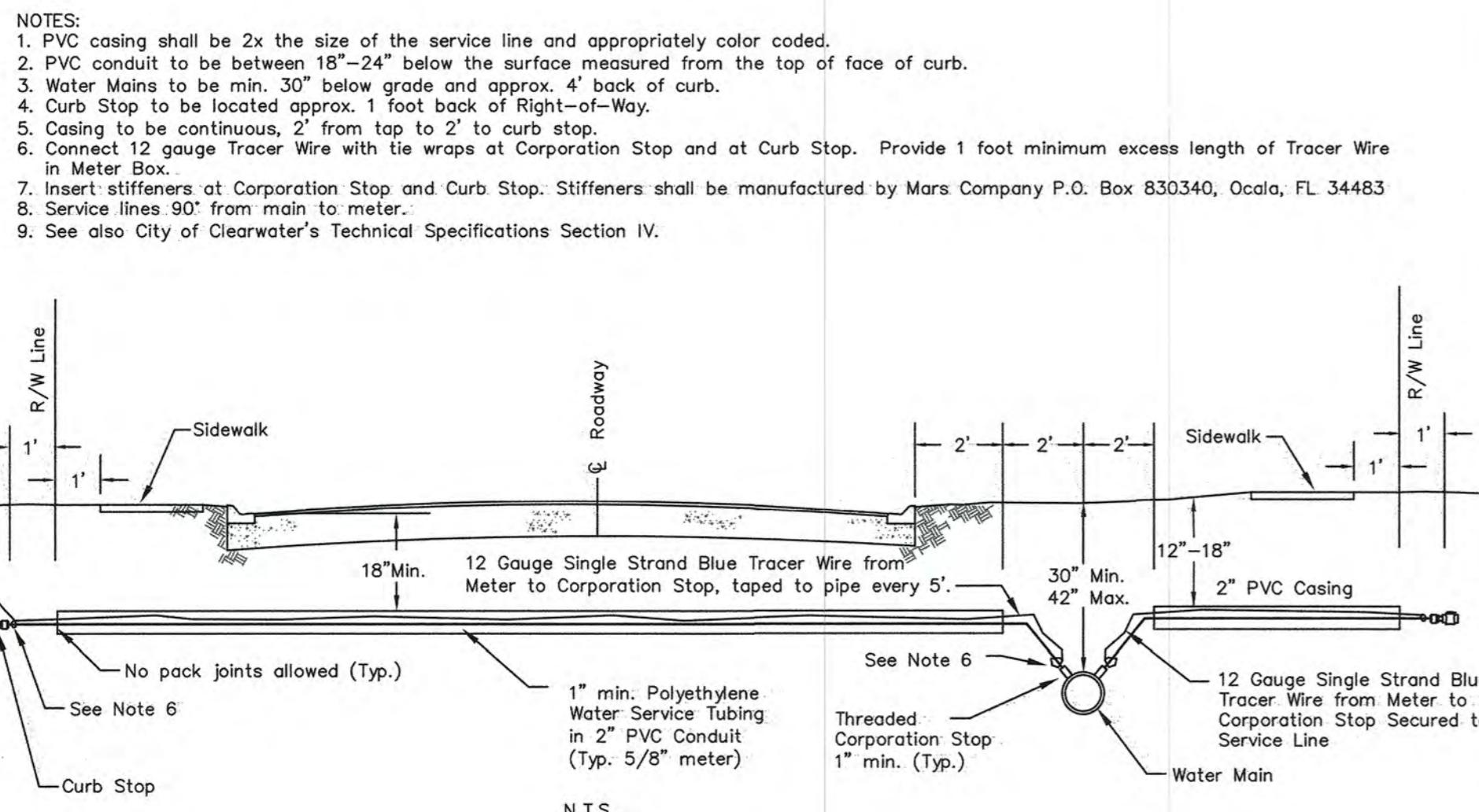
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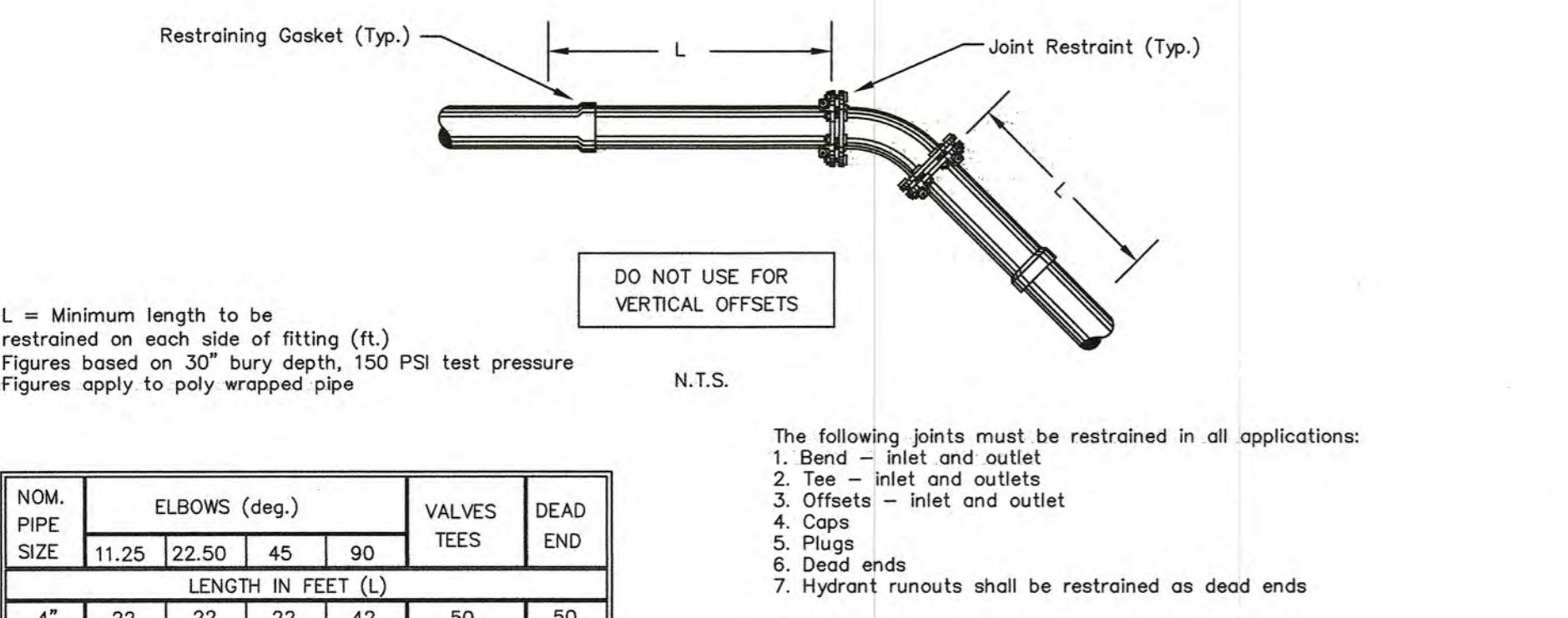
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CITY OF CLEARWATER
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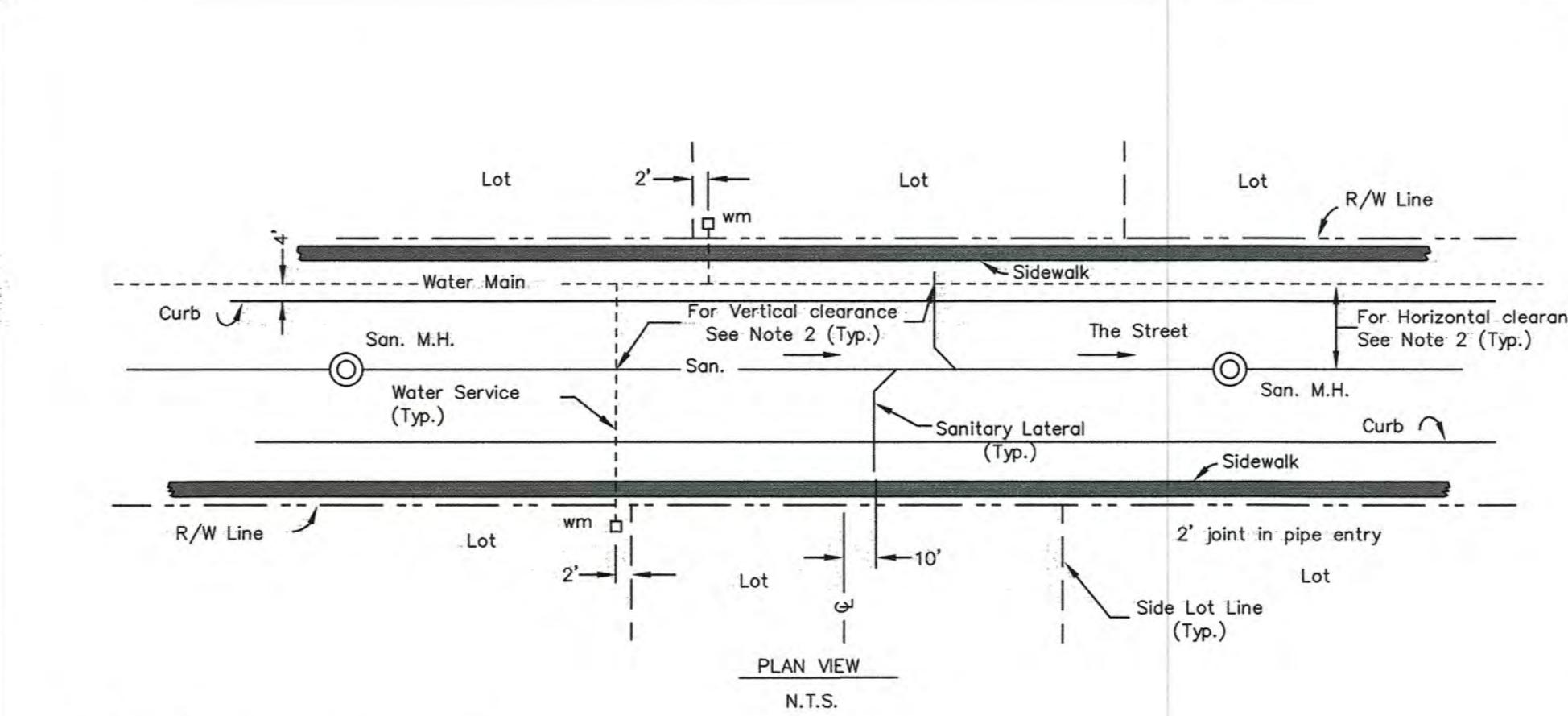


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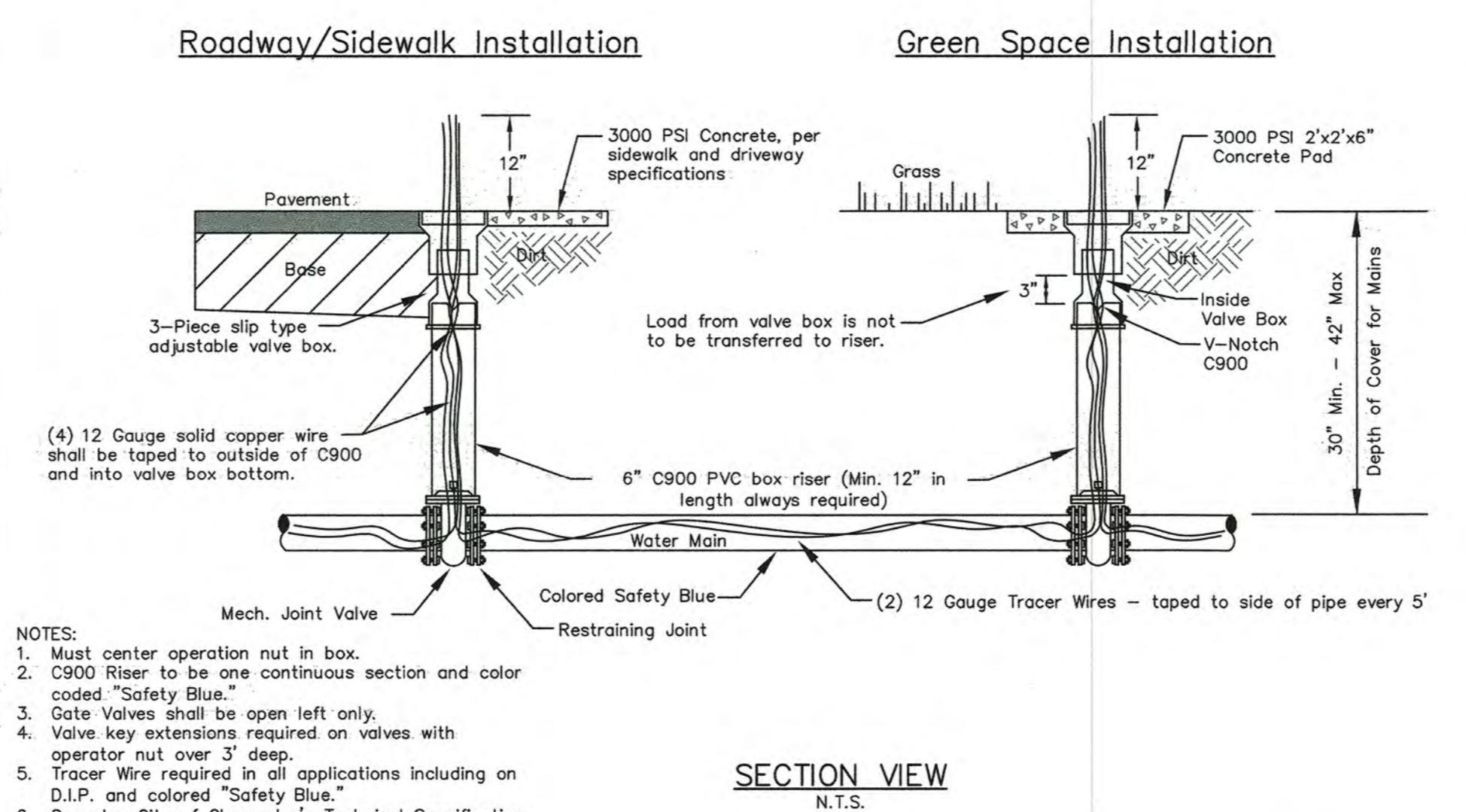


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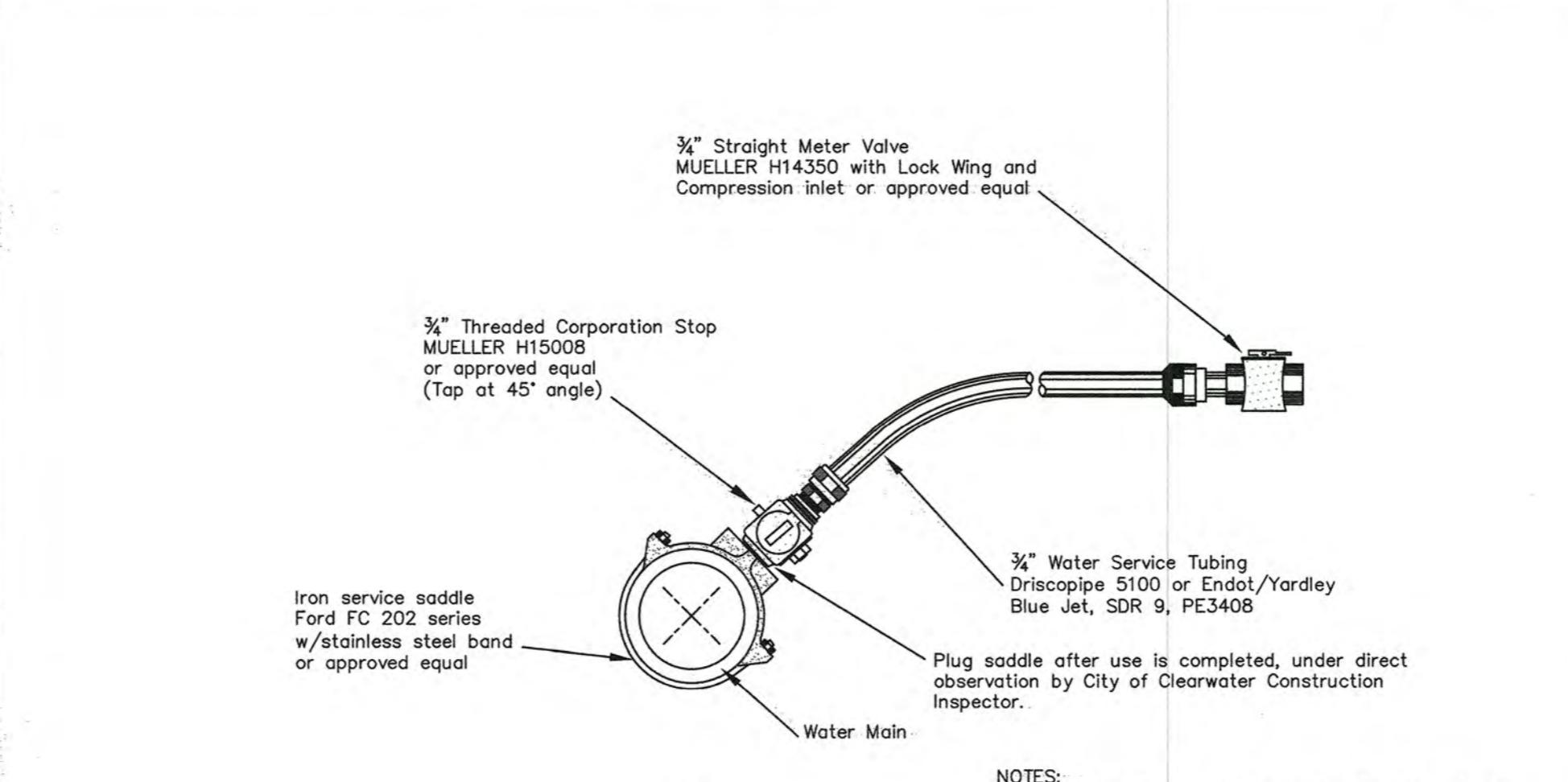
Chet Ritter 3/1/11 3/1/11
ELIOT SIEGERS
REGISTERED PROFESSIONAL ENGINEER
PROFESSIONAL ENGINEER NUMBER 56746
STATE OF FLORIDA



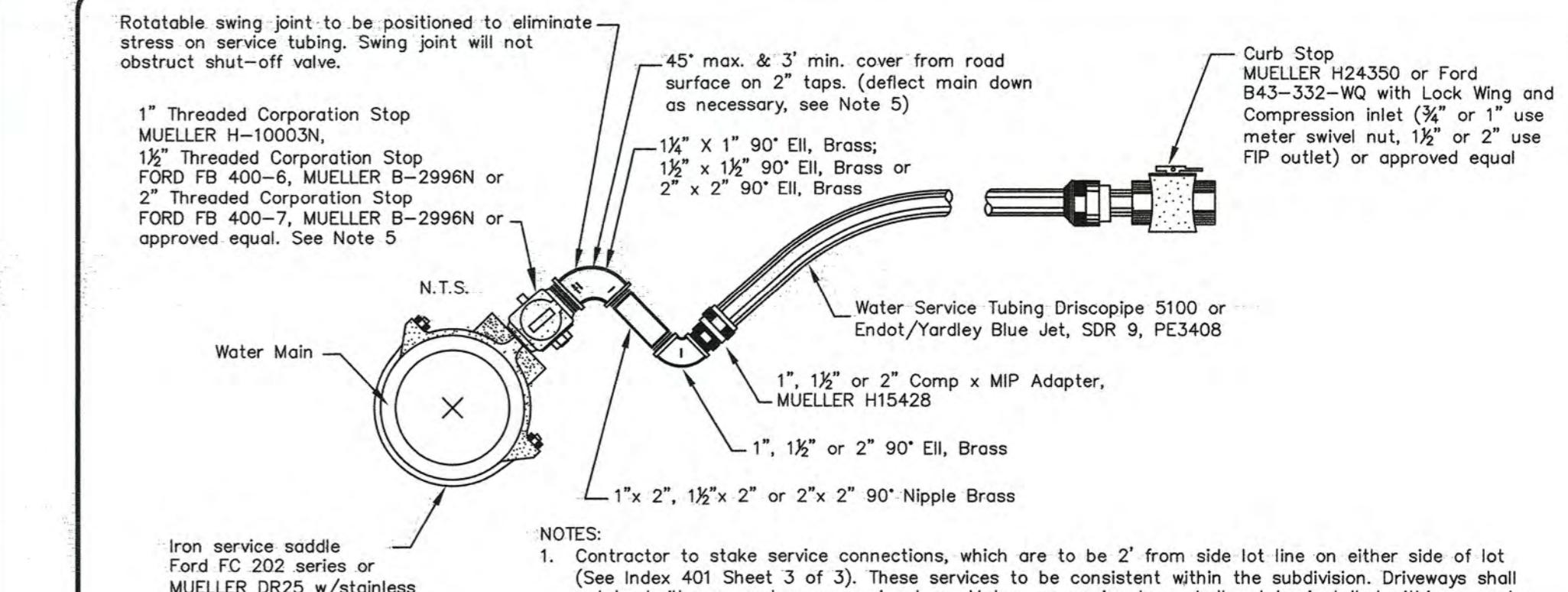
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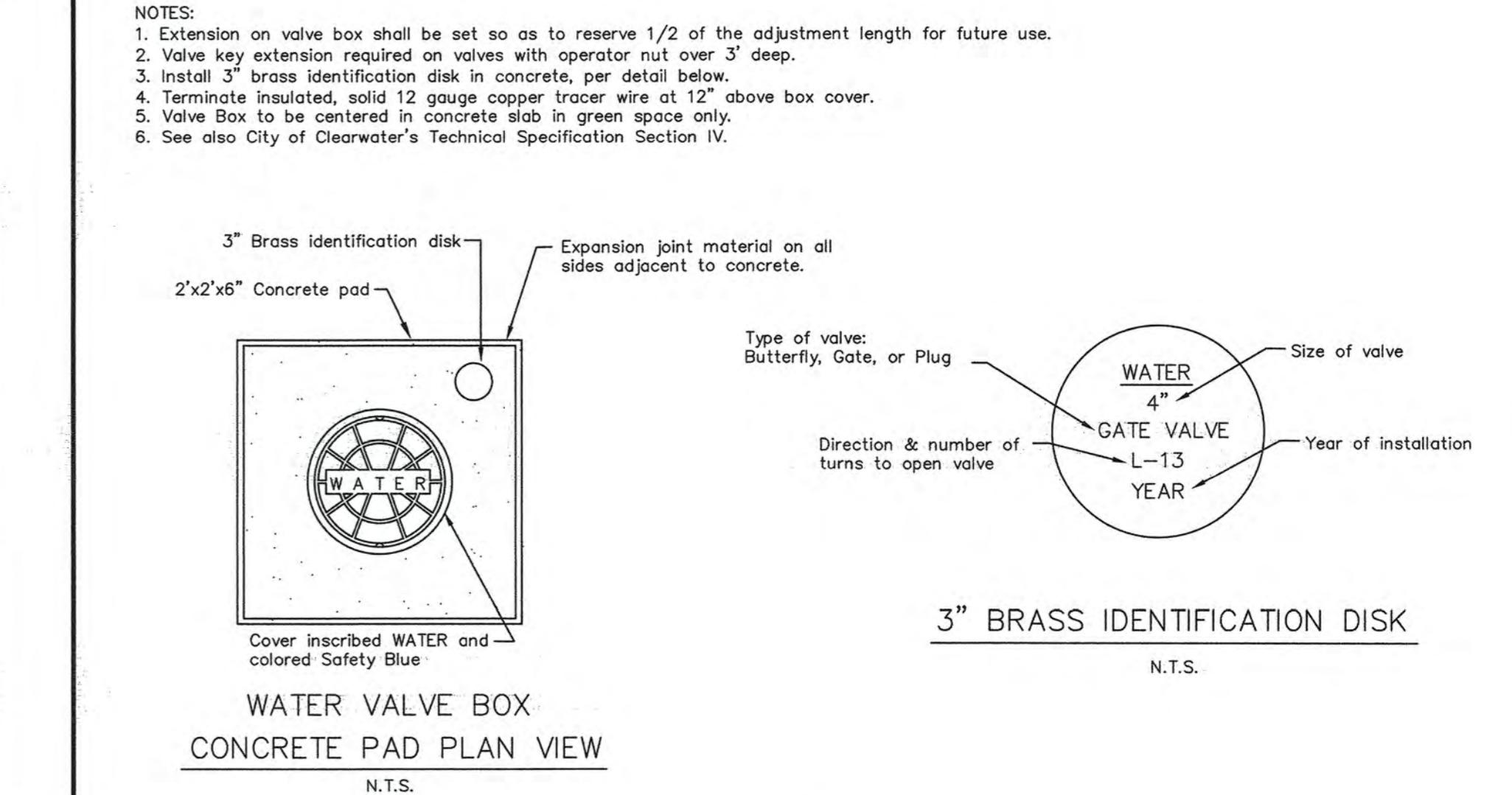
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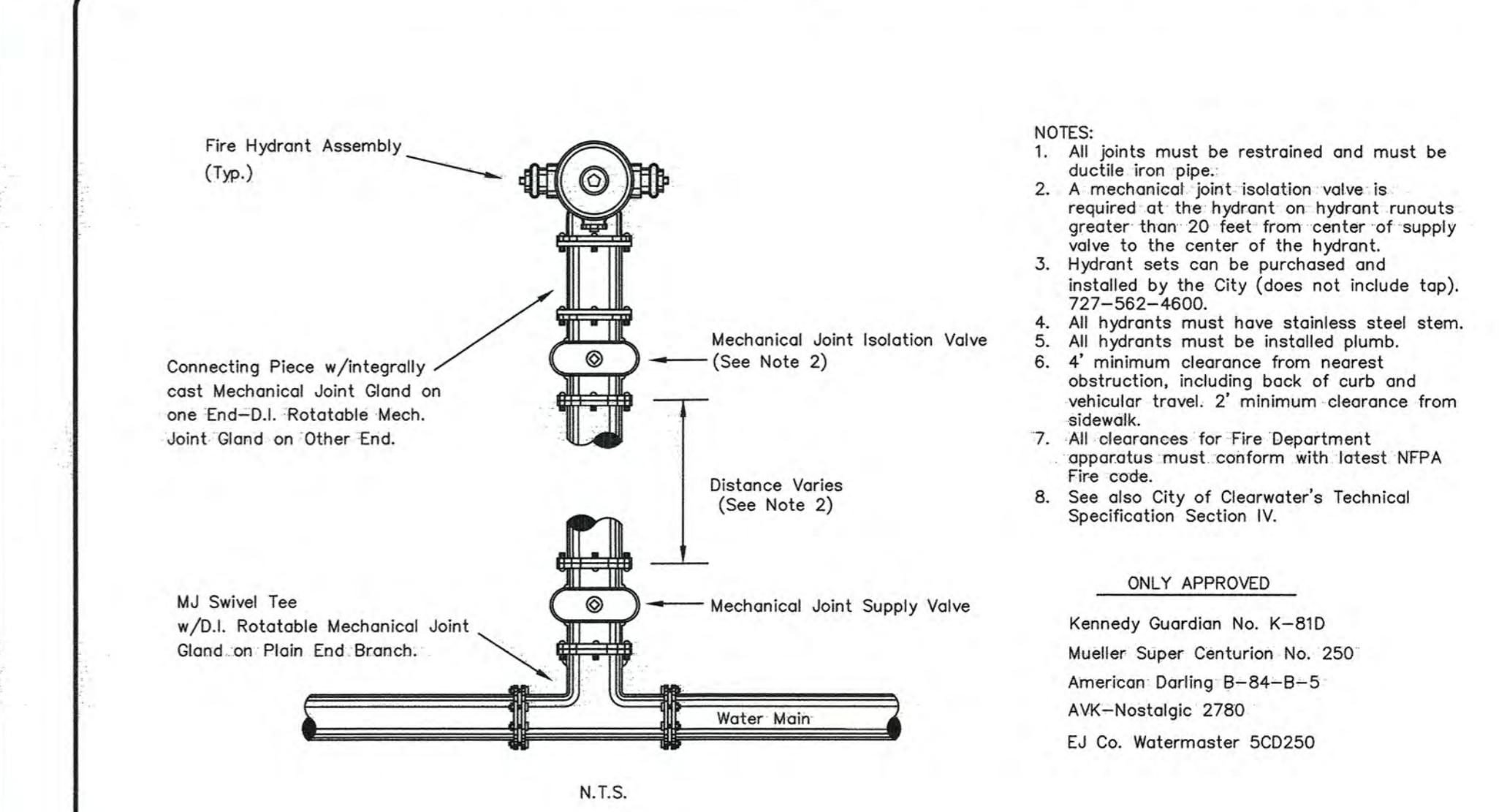
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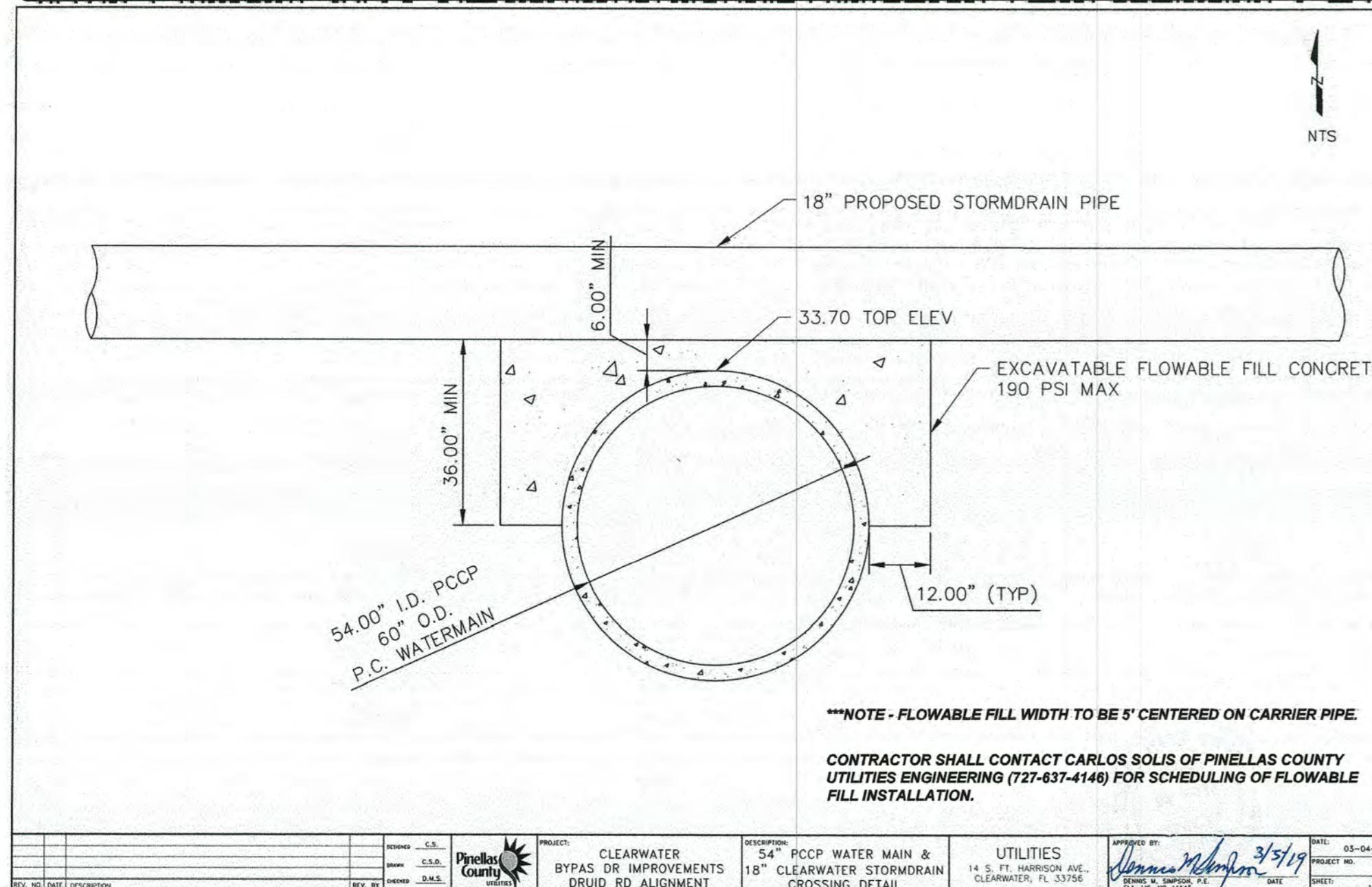
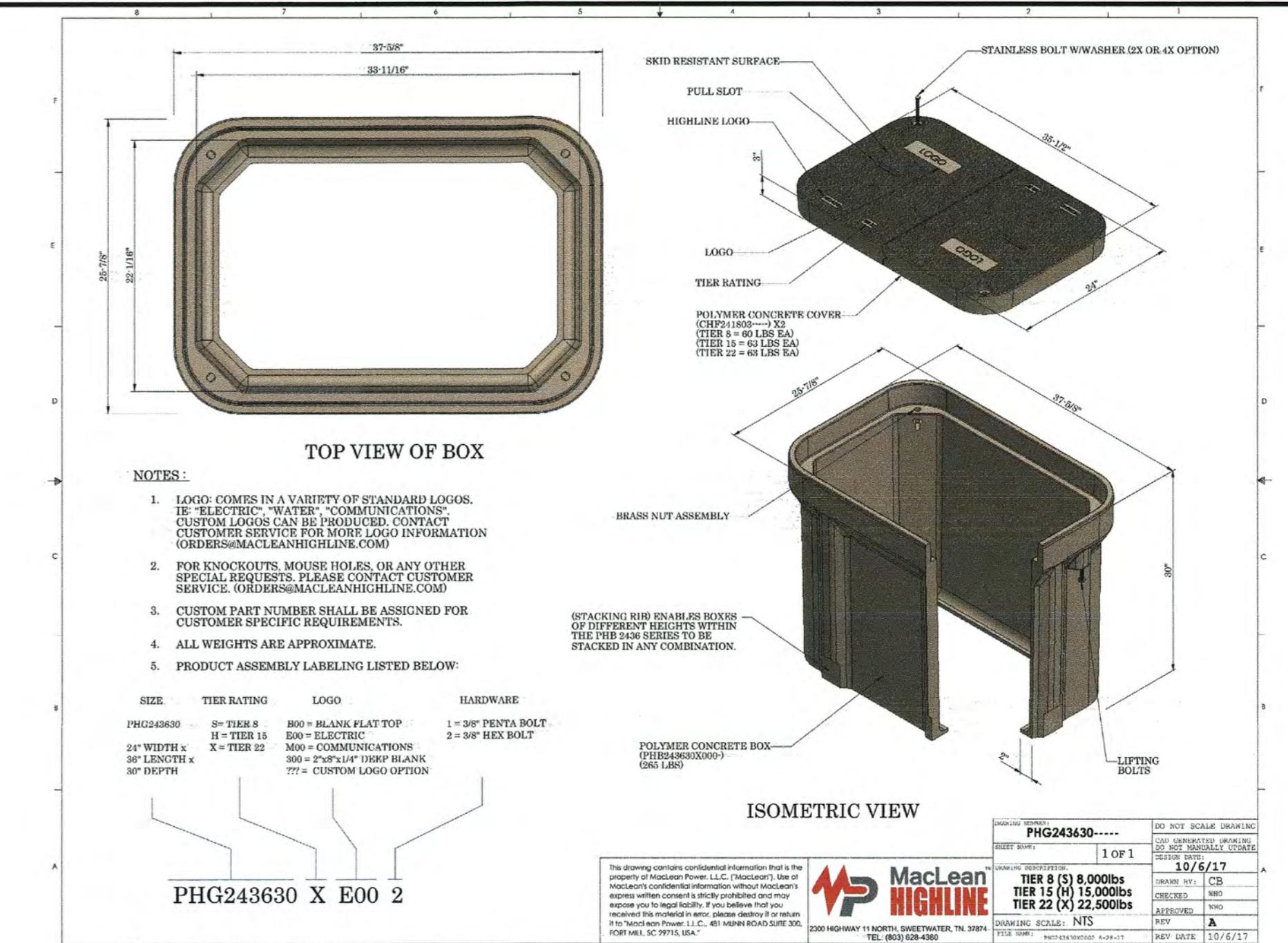
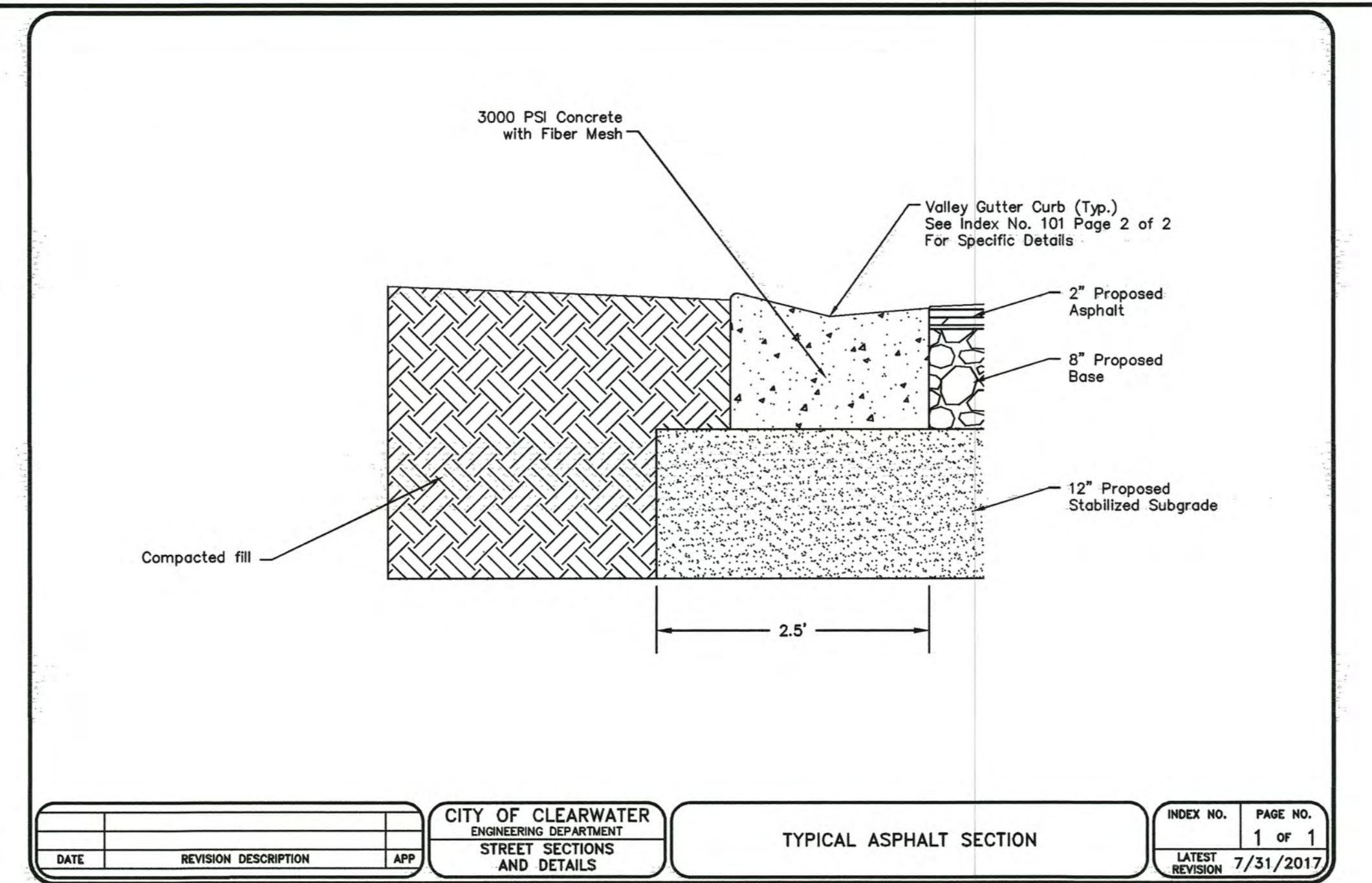
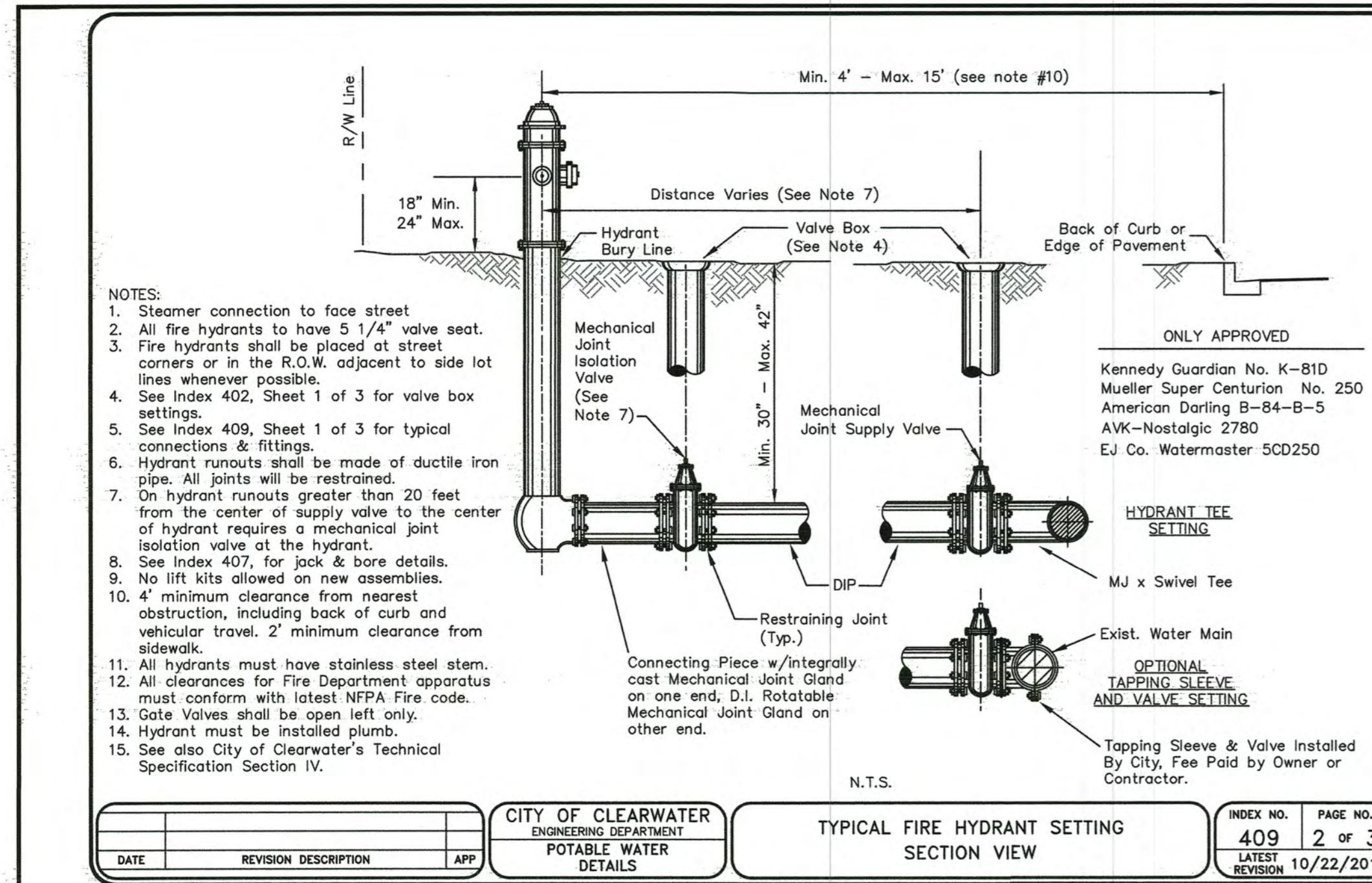
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DWG NAME	FIELD BOOK	SURVEYED BY	SCALE:
2015030-DTLS	580	SR	VERT. N/A
CONTRACT NO:			HORIZ. 1" = 20'
15-0021-EN	DATE DRAWN:	DDM, JR	
JOB NO:	04-18-2016	DESIGNED BY:	
2015030	JWS	CHECKED BY:	
		PWD	SHEET NO: 24 OF 27
			APPROVED BY
			DATE

Bypass Drive Improvements
Details



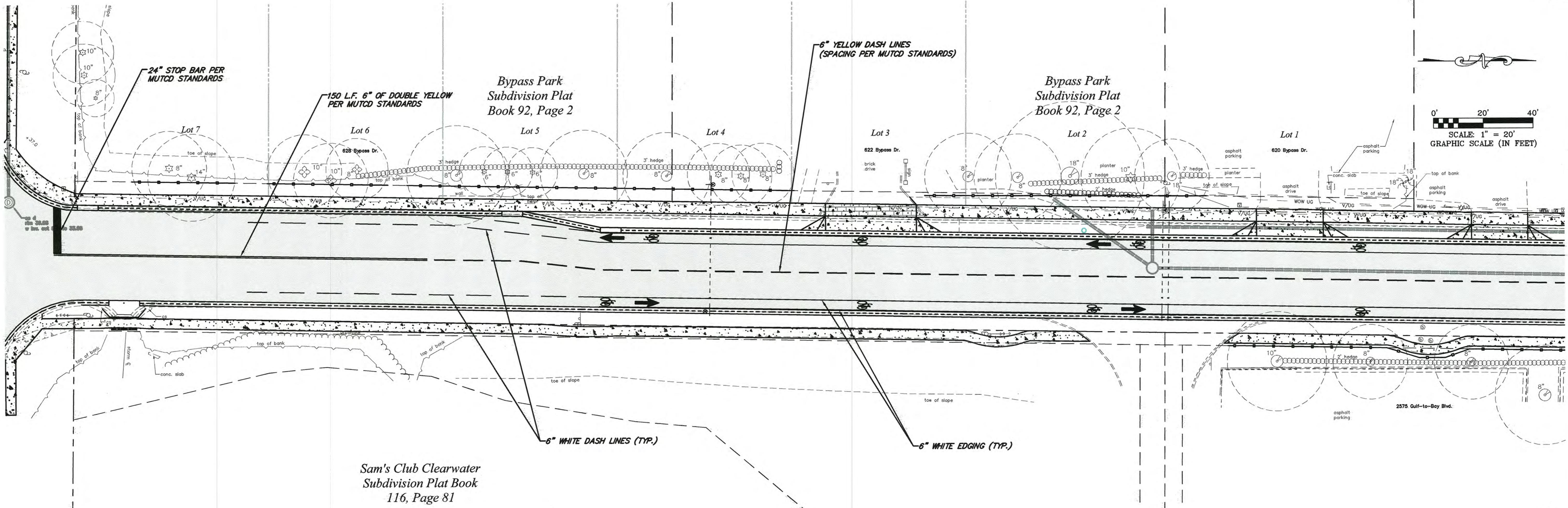
CITY OF CLEARWATER, FLORIDA
ENGINEERING DEPARTMENT
100 S. MYRTLE AVE.
CLEARWATER, FL 33756



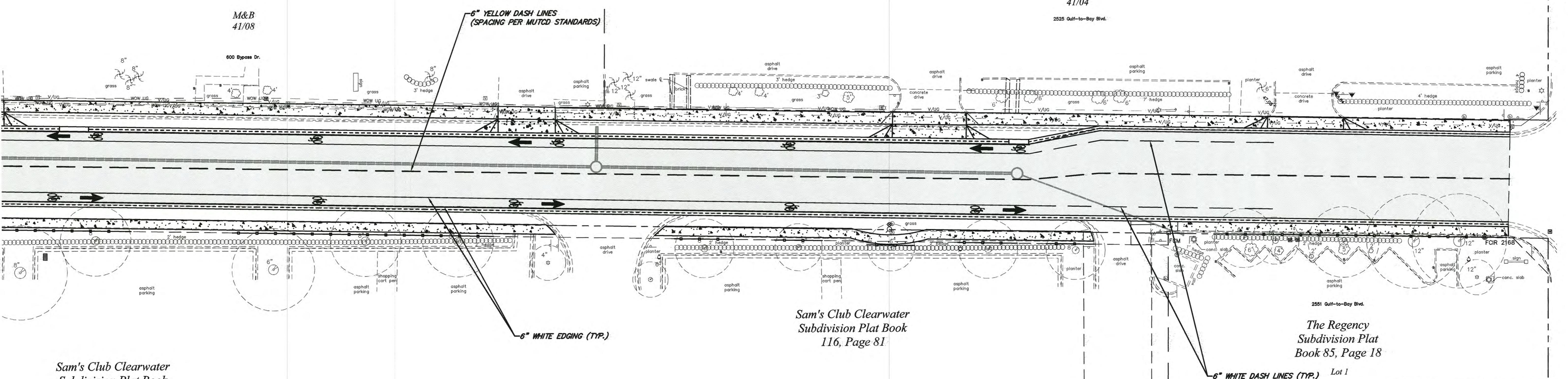
Bypass Drive Improvements

Details

DWG NAME: 2015030-DTLS	FIELD BOOK: 580	SURVEYED BY: SR	SCALE: VERT. N/A
CONTRACT NO.: 15-0021-EN	DATE DRAWN: 04-18-2016	DRAWN BY: DDM, JR	HORIZ. 1" = 20'
JOB NO.: 2015030	DESIGNED BY: JWS	CHECKED BY: PWD	SHEET NO.: 25 OF 27
APPROVED BY <hr/>		DATE <hr/>	



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Subdivision Plat Book
116, Page 81



Sam's Club Clearwater
Subdivision Plat Book
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Sam's Club Clearwater
Subdivision Plat Book
116, Page 81

The Regency
Subdivision Plat
Book 85, Page 18

6" WHITE DASH LINES (TYP.) Lot 1

**100% PLANS
BID SET**

REVISION	BY	DATE	ELLIOT SHOBERG REGISTERED PROFESSIONAL ENGINEER PROFESSIONAL ENGINEER NUMBER PE 58746 STATE OF FLORIDA	3/11/21 DATE SIGNED	CITY OF CLEARWATER, FLORIDA ENGINEERING DEPARTMENT 100 S. Myrtle Ave. Clearwater, Fl 33756	INVESTIGATE BEFORE YOU EXCAVATE CALL 811 SUNSHINE STATE ONE CALL OF FLORIDA www.callsunshine.com (800) 432-4770 MIN. 48 HOURS BEFORE YOU EXCAVATE	Bypass Drive Improvements Traffic Striping Plan Bypass Drive Alignment 0+00 Through 13+25	DWG NAME: 2015030-DSGN	FIELD BOOK: 580	SURVEYED BY: SR	SCALE: VERT. 1" = 2' HORIZ. 1" = 20'				
								CONTRACT NO.: 15-0021-EN	DATE DRAWN: 05-27-2016	DRAWN BY: DDM, JR	JOB NO.: 2015030	DESIGNED BY: JWS	CHECKED BY: PWD	APPROVED BY: _____	DATE: 26 OF 27

I. SITE DESCRIPTION

A. CONSTRUCTION ACTIVITY

CLEARING AND GRUBBING, DEMOLITION OF ROADWAY, CONSTRUCTION OF STORMWATER PIPES, UNDERDRAIN AND CURBING, CONSTRUCTION OF ROADWAY AND SIDEWALKS.

PROJECT LIMITS

BYPASS DRIVE FROM GULF-TO-BAY TO DRUD ROAD.
DRUD ROAD FROM DUKE ENERGY TRAIL TO BYPASS DRIVE.

B. PROJECT DESCRIPTION

REMOVAL AND REPLACEMENT OF UNDERDRAIN, ROADWAY AND SIDEWALK
INSTALLATION OF STORMWATER PIPES

C. MAJOR SOIL DISTURBING ACTIVITIES

CLEARING AND GRUBBING, DEMOLITION OF ROADWAY, CONSTRUCTION OF STORMWATER PIPES, UNDERDRAIN AND CURBING, CONSTRUCTION OF ROADWAY AND SIDEWALKS

- TOTAL PROJECT AREA: 2.00 ACRES
- TOTAL AREA TO BE DISTURBED: 1.50 ACRES

D. RUNOFF DATA

NOT APPLICABLE

E. SOIL DATA

GEOTECHNICAL REPORT INCLUDED IN SPECIFICATIONS

- DRAINEAGE AREA (ATTACH DRAINAGE MAP OR PROVIDE DRAINAGE AREA IN ACRES)
- 2.00 ACRES

F. RECEIVING WATERS

THE PROJECT IS LOCATED IN COASTAL ZONE 2, ULTIMATELY DRAINING TO TAMPA BAY.

G. WETLANDS AREAS

NO ALTERATIONS

II. CONTROLS

ALL CONTROLS SHALL BE CONSISTENT WITH PERFORMANCE STANDARDS FOR EROSION AND SEDIMENT CONTROL AND STORMWATER TREATMENT SET FORTH IN 6.62-40.432, F.A.C., THE APPLICABLE STORMWATER OR ENVIRONMENTAL RESOURCE PERMITTING REQUIREMENTS OF THE DEPARTMENT OR A WATER MANAGEMENT DISTRICT AND THE GUIDELINES CONTAINED IN THE FLORIDA DEVELOPMENT MANUAL: A GUIDE TO SOUND LAND AND WATER MANAGEMENT (DEP, 1988) AND ANY SUBSEQUENT AMENDMENTS.

A. SEQUENCE OF MAJOR ACTIVITIES

DEMOLITION

CONSTRUCTION OF CURB AND GUTTER, STORMWATER COLLECTION SYSTEM UNDERDRAIN, ROADWAY AND SANITARY SEWER.

RESTORATION OF THE RIGHT-OF-WAY

WHEN CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE EROSION PROTECTION DEVICES AND CONSTRUCTION ENTRANCE AS REQUIRED.

B. EROSION AND SEDIMENT CONTROL CONSTRUCTION ACTIVITIES

THE CONTRACTOR IS REQUIRED TO REVIEW THE SITE SPECIFIC EROSION CONTROL PLAN. THE CONTRACTOR MAY ALSO BE REQUIRED TO MODIFY THE PLAN OR MATERIALS TO ADAPT TO SITE CONDITIONS. THE SITE EROSION CONTROL PLAN WILL COMPLY WITH THE EROSION AND SEDIMENTATION CONTROL PLAN. ANY MODIFICATIONS TO THIS PLAN MUST BE APPROVED BY A PROFESSIONAL ENGINEER REPRESENTING THE CONTRACTOR. THE EROSION CONTROL DEVICES, DETAILS, AND NOTES APPLICABLE TO THESE ACTIVITIES ARE SPECIFIED IN THE PLANS. THE PROJECT ENGINEER MAY REQUIRE ADDITIONAL CONTROLS TO MEET STANDARDS AND REGULATIONS.

PERFORM DAILY INSPECTION OF EROSION AND SEDIMENT CONTROLS AFTER EVERY $\frac{1}{2}$ " RAINFALL
REMOVE ALL SEDIMENTS THAT HAVE MIGRATED OFF-SITE AS DIRECTED BY THE ENGINEER

C. STABILIZATION PRACTICES

DURING CONSTRUCTION THE CONTRACTOR WILL PROVIDE STABILIZATION FOR AREAS WHICH HAVE BEEN CLEARED AND NOT REWORKED WITHIN FOURTEEN (14) CALENDAR DAYS. THE CONTRACTOR MAY UTILIZE TEMPORARY SEEDING OR TEMPORARY SODDING IN ACCORDANCE WITH SECTION 570 OF THE "FOOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION".

- TEMPORARY SODDING
- TEMPORARY GRASSING
- PERMANENT SODDING OR SEEDING
- PRESERVATION OF NATURAL RESOURCES
- BUFFER ZONES

D. STRUCTURAL PRACTICES

- SYNTHETIC BALES (LF)
- ARTIFICIAL COVERINGS/ROLLED EROSION CONTROL PRODUCTS (SY)
- INLET PROTECTION SYSTEM (EA)
- LITTER REMOVAL AND DISPOSAL (AC)
- MOWING (AC)
- SLOPE DRAINS (TEMPORARY/RUNOFF CONTROL STRUCTURES (LF))
- SOIL TRACKING PREVENTION DEVICE (EA)
- SEDIMENT BASINS/CONTAINMENT SYSTEMS (EA)
- SEDIMENT BASIN/CONTAINMENT SYSTEM CLEANOUT (EA)
- FLOATING TURBIDITY BARRIER (LF)
- STAKED SILT FENCE (LF)
- CHEMICAL TREATMENT - POWDERED (SY)
- CHEMICAL TREATMENT (FLOC LOGS, DRUMS OF PRODUCT) (EA)
- OTHER

E. DESCRIPTION OF STORM WATER MANAGEMENT

THE STORMWATER MANAGEMENT SYSTEM CONSISTS OF STORMWATER PIPES, UNDERDRAIN, AND PROPOSED SWALE TO CONVEY STORMWATER TO EXISTING OFFSITE SYSTEM.

F. WASTE DISPOSAL

THE CONTRACTOR SHALL PROVIDE LITTER CONTROL AND COLLECTION WITHIN THE PROJECT BOUNDARIES DURING CONSTRUCTION ACTIVITIES. ANY CHEMICAL CONTAINERS SHALL BE DISPOSED OF BY THE CONTRACTOR ACCORDING TO EPA'S STANDARD PRACTICES AS DETAILED BY THE PROJECT ENGINEER. SOLID WASTE, INCLUDING BUILDING & CONSTRUCTION MATERIALS SHALL BE DISCHARGED TO WELDING OR SHED ON-SITE. ALL OTHER MATERIALS COLLECTED AND STORED IN DUMPSTERS PER LOCAL SOLID WASTE REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPMSTER. THE DUMPMSTER WILL BE EMPTIED A MINIMUM OF TWICE A WEEK OR MORE OFTEN IF NECESSARY, AND THE TRASH WILL BE HAULED TO THE APPROPRIATE COUNTY LOCATION FOR DUMPING.

G. OFFSITE VEHICLE TRACKING

STABILIZED CONSTRUCTION ENTRANCES SHALL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREETS WILL BE CLEANED AS DIRECTED BY THE CONSTRUCTION INSPECTOR AND ENGINEER TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM OR TO THE SITE WILL BE COVERED WITH A TARPANUL AT ALL TIMES.

H. SANITARY WASTE

FDOT STANDARD SPEC FOR ROAD AND BRIDGE CONSTRUCTION SECTION 7.0 "SANITARY PROVISIONS." THE CONTRACTOR SHALL PROVIDE AND MAINTAIN, IN A NEAT AND SANITARY CONDITION, SUCH ACCOMMODATION FOR THE USE OF HIS EMPLOYEES AS ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS AND REGULATIONS OF THE STATE AND LOCAL BOARDS OF HEALTH. COMMIT NO PUBLIC NUISANCE."

I. HAZARDOUS WASTE

THE CONTRACTOR WILL IMMEDIATELY NOTIFY THE CITY IN WRITING IF ANY HAZARDOUS WASTE MATERIAL IS ENCOUNTERED DURING SITE INVESTIGATION OR CONSTRUCTION.

THE CONTRACTOR WILL ALSO BE RESPONSIBLE FOR NOTIFYING THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) WITHIN 24 HOURS OF THE DISCOVERY.

ALL HAZARDOUS WASTE MATERIALS, IF ENCOUNTERED, WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL, STATE, AND FEDERAL REGULATIONS. THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.

IN CASE OF DISPOSING ANY HAZARDOUS WASTE MATERIAL FOLLOWING LOCAL, STATE, AND FEDERAL REGULATIONS, A COPY OF DISPOSAL MANIFEST HAS TO BE PROVIDED TO THE COUNTY IN TIMELY FASHION.

J. WATER QUALITY MONITORING (MIXING ZONES)

THE WATER THAT WILL BE SAMPLED FOR STATE WATER QUALITY STANDARDS FOR CONSTRUCTION ACTIVITIES PROHIBIT A TURBIDITY INCREASE OF GREATER THAN 25 NTU'S ABOVE AMBIENT CONDITIONS AT THE COMPLIANCE LOCATION OF THE MIXING ZONES. TO MAINTAIN THIS STANDARD, TURBIDITY MONITORING SHALL OCCUR DURING ALL IN-WATER CONSTRUCTION ACTIVITIES AT EACH COMPLIANCE AND BACKGROUND STATION. THE FOLLOWING PROCEDURE SHALL BE USED:

FREQUENCY: TWICE A DAY, AT LEAST 4 HOURS APART DURING FREQUENCY OF ACTUAL CONSTRUCTION OPERATIONS.

LOCATIONS: ALL STATIONS SHALL BE SAMPLED AT 2 FEET ABOVE LOCATIONS THE BOTTOM, AT MID-DEPTH, AND AT THE SURFACE, OR AS DIRECTED BY PERMITTING AGENCIES. IF WATER IS LESS THAN THREE FEET DEEP, ONLY MID-DEPTH SAMPLES ARE REQUIRED.

BACKGROUND: 500 FEET UP-CURRENT FROM THE CONSTRUCTION BACKGROUND ACTIVITY AND OUTSIDE OF ANY TURBIDITY PLUME FROM THE CONSTRUCTION ACTIVITY.

COMPLIANCE: 300 FEET DOWN CURRENT FROM THE CONSTRUCTION COMPLIANCE ACTIVITY WITHIN ANY VISIBLE TURBIDITY PLUME, OR AS DIRECTED BY PERMITTING AGENCIES.

METHOD: ALL SAMPLES SHALL BE COLLECTED WITH A KEMMERER, VAN DORN METHOD, OR SIMILAR SAMPLER WHICH IS DESIGNED TO COLLECT IN SITU WATER SAMPLES.

REPORTING: ALL MONITORING DATA SHALL BE SUBMITTED WITHIN ONE REPORTING WEEK OF ANALYSIS WITH DOCUMENTS CONTAINING THE FOLLOWING INFORMATION:

1. PERMIT NUMBER

2. DATES OF SAMPLING AND ANALYSIS

3. LOCATION OF SAMPLE (I.E., STATION AND WATER COLUMN LOCATION)

4. A STATEMENT DESCRIBING THE METHODS USED IN COLLECTION, HANDLING,

5. STORAGE, AND ANALYSIS OF THE SAMPLES

6. A MAP INDICATING THE SAMPLING LOCATIONS

7. STATEMENT, BY THE INDIVIDUAL RESPONSIBLE FOR IMPLEMENTATION OF THE SAMPLING PROGRAM,

CONCERNING THE AUTHENTICITY, PRECISION, LIMITS OF DETECTION AND ACCURACY OF DATA.

MONITORING REPORTS SHALL INCLUDE INFORMATION ON THE GENERAL ANTECEDENT WEATHER CONDITIONS.

IF MONITORING REVEALS VIOLATIONS OF THE STATE WATER QUALITY STANDARD FOR TURBIDITY, CONSTRUCTION ACTIVITIES SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL CORRECTIVE MEASURES HAVE BEEN TAKEN AND TURBIDITY HAS RETURNED TO ACCEPTABLE LEVELS. ANY SUCH OCCURRENCE SHALL ALSO BE IMMEDIATELY REPORTED TO THE REGULATORY AGENCIES. IN THE EVENT THAT STATE WATER QUALITY STANDARDS ARE NOT ATTAINED, THE CONTRACTOR SHALL IMPLEMENT A CONTINGENCY PLAN WHICH COMPLIES WITH THE PROJECT SWPPM/FDEP AND PINELAS COUNTY NPDES REQUIREMENTS AT NO ADDITIONAL COST TO THE COUNTY. ANY FINES SHALL BE RESPONSIBILITY OF THE CONTRACTORS.

K. APPROVED STATE, LOCAL PLANS, OR STORM WATER PERMITS

NONE AT THE TIME OF PERMITTING

III. MAINTENANCE

A. ALL OF THE CONTROLS SHALL BE MAINTAINED AT ALL TIMES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY INSPECTION AND MAINTENANCE OF ALL PERMANENT AND TEMPORARY EROSION CONTROL DEVICES THROUGHOUT ALL CONSTRUCTION PHASES OF THE PROJECT. MAINTENANCE SHALL BE IN ACCORDANCE WITH CITY STANDARDS AND THE PROJECT CONSTRUCTION CONTRACT.

B. INSPECTION

THE CITY INSPECTOR SHALL BE RESPONSIBLE FOR COMPLETING THE CITY'S NPDES / SWPPP CONSTRUCTION INSPECTION REPORT AFTER ANY $\frac{1}{2}$ " RAINFALL OR WEEKLY, IF NO RAIN EVENT OCCURRED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN RAIN GAUGES ON THE PROJECT SITE AND RECORD WEEKLY RAINFALL. THE CITY INSPECTOR SHALL ALSO COMPLETE THE CITY'S NPDES COMPLIANCE CHECKLIST FOR CONSTRUCTION SITES AND NOTE ANY ISSUES ON THEIR DAILY REPORT.

IV. SPILL CONTROL PRACTICES

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIALS MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP.

• MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION CLEANUP SUPPLIES.

• ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.

• THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.

C. NON-STORM WATER DISCHARGES

IT IS EXPECTED THAT THE FOLLOWING NON-STORM WATER DISCHARGES MAY OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD:

• WATER FROM WATER LINE FLUSHING

• PAVEMENT WASH WATERS (WHERE NO SPILL OR LEAKS OF VEHICLE AND HAZARDOUS MATERIALS HAVE OCCURRED)

• UNCONTAMINATED GROUNDWATER FROM DE-WATERING ACTIVITIES

ALL NON-STORM WATER DISCHARGES WILL BE DIRECTED TO THE SEDIMENT BASIN PRIOR TO DISCHARGE OR AS DIRECTED BY THE ENGINEER. IF CONTAMINATED SOIL OR GROUNDWATER IS ENCOUNTERED, DEWATERING SHOULD CEASE IMMEDIATELY AND THE ENGINEER WILL BE CONTACTED.

D. MATERIAL MANAGEMENT PRACTICES

THE FOLLOWING ARE THE MATERIAL HANDLING PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF:

1. THE FOLLOWING GOOD HOUSEKEEPING PRACTICES SHALL BE FOLLOWED ON-SITE DURING THE CONSTRUCTION PROJECT.

- STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB ON SITE.
- ALL MATERIALS STORED ON SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR ORIGINAL MANUFACTURER'S LABELED CONTAINERS UNDER A ROOF OR OTHER CONTAINED ENCLOSURE.
- SUBSTANCES SHALL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
- WHENEVER POSSIBLE, ALL OF A PRODUCT SHALL BE USED BEFORE DISPOSING OF THE CONTAINER. MANUFACTURERS' RECOMMENDATIONS FOR PROPER USE AND DISPOSAL SHALL BE FOLLOWED.
- THE SITE SUPERINTENDENT SHALL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ON-SITE.

2. THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.

- PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RE-SEALABLE.
- SECONDARY CONTAINMENT SHALL BE PROVIDED FOR ALL OPENED CONTAINERS. ORIGINAL LABELS AND MATERIAL SAFETY DATA SHELL BE KEPT ON-SITE ON THE CONSTRUCTION OFFICE TRAILER.
- IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURERS OR LOCAL STATE RECOMMENDED METHODS OF PROPER DISPOSAL SHALL BE FOLLOWED.
- THE CONTRACTOR MUST IDENTIFY A DESIGNATED FUEL TANK STORAGE AREA, AWAY FROM DRAINAGE STRUCTURES, PONDS, BASINS, AND WETLANDS, WITH SECONDARY CONTAINMENT (SPILL COLLECTION).

3. CONCRETE TRUCKS

- CONTRACTOR SHALL DESIGNATE AN AREA AWAY FROM DRAINAGE STRUCTURES, PONDS, BASINS, AND WETLANDS FOR DISCHARGE OF SURPLUS CONCRETE OR DRUM WASH WATER AND SHALL INSTALL A CONTAINMENT BERM AROUND THIS AREA TO PREVENT RUNOFF TO THE REMAINDER OF THE SITE.
- HARD DEBRIS SHALL BE DISPOSED OF BY CONTRACTOR UPON COMPLETION OF THE PROJECT.
- DISPOSAL OF CONCRETE SLURRY DIRECTLY INTO PUBLIC DRAINAGE SYSTEMS IS A VIOLATION OF THE "ILLEGAL DISCHARGE" PROVISION OF THE CITY OF CLEARWATER CODE OF ORDINANCES, SECTION 32.394 - ILLEGAL DISCHARGE.

5. SPILL CONTROL PRACTICES

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIALS MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP.

• MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION CLEANUP SUPPLIES.

• ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.

• THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.

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