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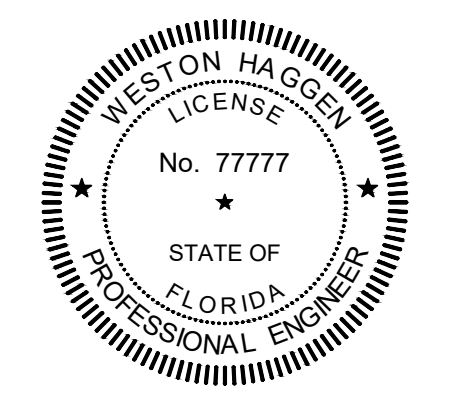


CLEARWATER

BRIGHT AND BEAUTIFUL · BAY TO BEACH

POTABLE WATER PIPING IMPROVEMENTS PHASES 2, 4 & 5

CHA
 CHA CONSULTING, INC.
 3507 EAST FRONTAGE ROAD SUITE 180
 TAMPA, FL 33607
 TEL: (813) 549-0919
 CERTIFICATE OF AUTHORIZATION #28386



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY WESTON HAGGEN ON THE DATE ADJACENT TO THE SEAL.

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THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH THE PROVISIONS OF SECTION 407.025, F.S., AND RULE 61G15-23, F.A.C.

GENERAL
01-05

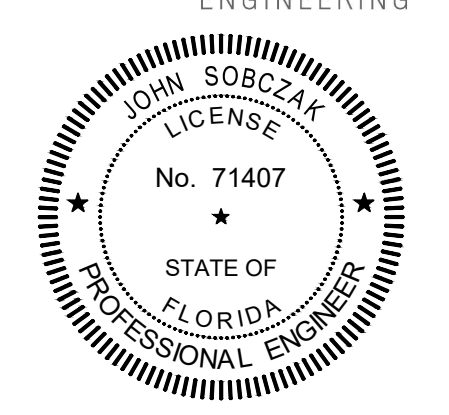
CIVIL
06-18, 19-36, 42-57

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38, 41

DETAILS
58-64

WEKIVA
 ENGINEERING

711 N ORANGE AVE, SUITE A
 WINTER PARK, FL 32789
 P: 321.972.4989 COA Lic. No: 31920
 WEKIVA PROJECT #22-184

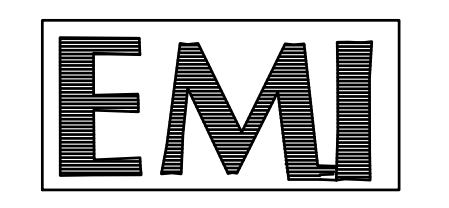


THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY JOHN SOB CZAK ON THE DATE ADJACENT TO THE SEAL.

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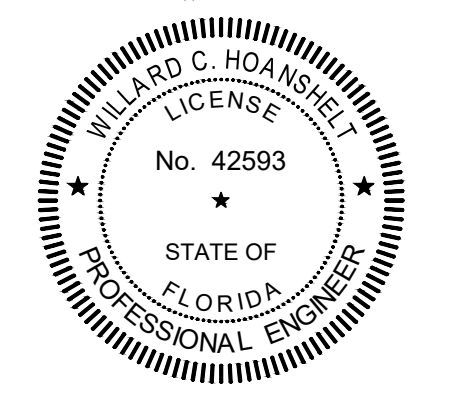
THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH THE PROVISIONS OF SECTION 407.025, F.S., AND RULE 61G15-23, F.A.C.

STRUCTURAL
37, 40



EMI CONSULTING SPECIALTIES, INC.
 5742 River Bed Road
 Groveland, FL 34736
 (352) 460-4035

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY WILLARD C. HOANSHOLT ON THE DATE ADJACENT TO THE SEAL.



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ELECTRICAL
39

CITY OFFICIALS

Brian Aungst Sr.
Mark Bunker
Kathleen Beckman
David Allbritton
Lina Teixeira
Jennifer Poirrier

Mayor
Councilmember
Councilmember
Councilmember
City Manager

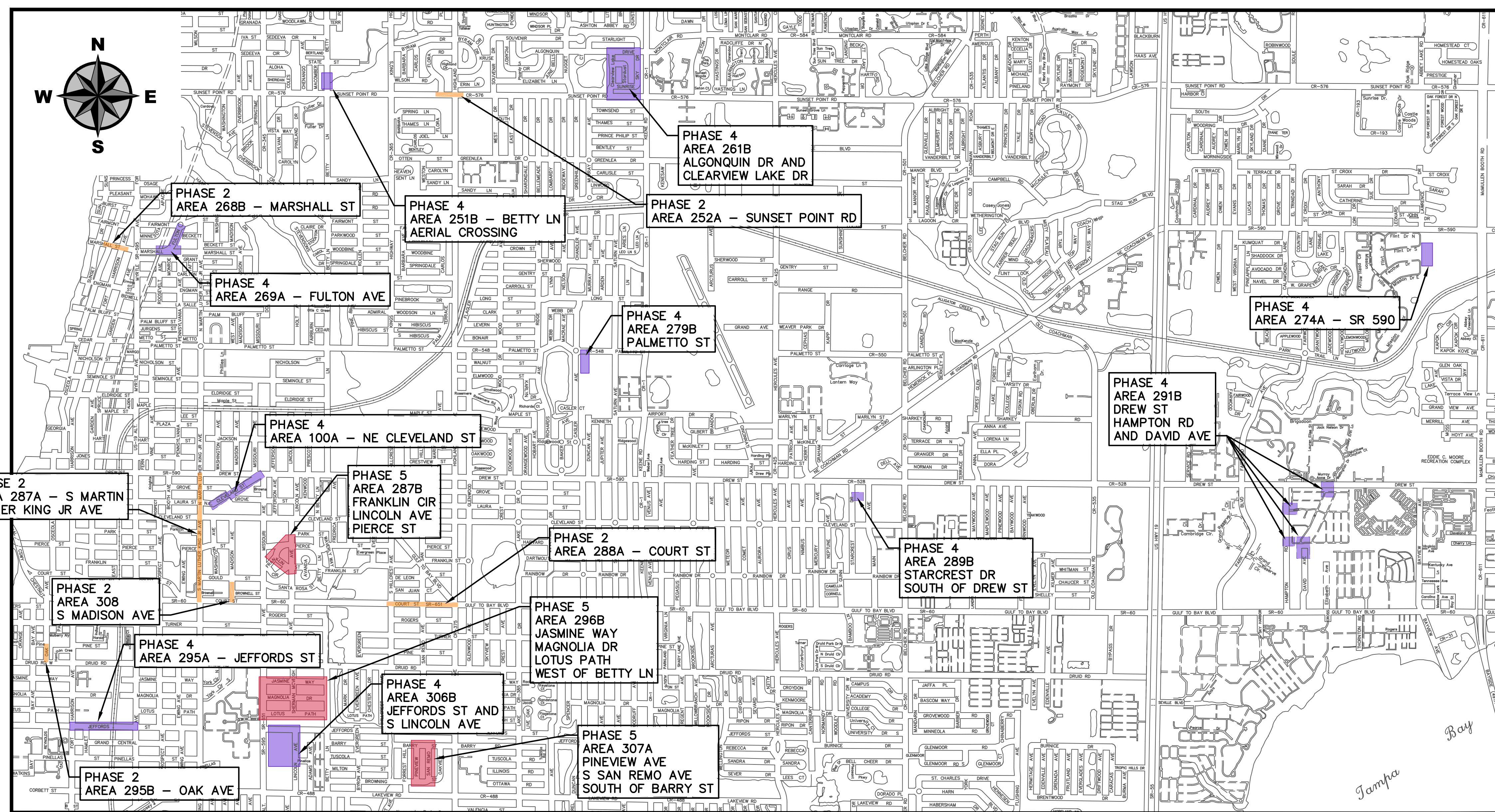
Tara L. Kivett, P.E.
 City Engineer

Approved For
 Construction

CITY ENGINEER Tara L. Kivett, P.E. #86611

Date Approved

ISSUED FOR BID
City Project No. 23-0011-UT
City Plan Set No. 2020027



Parent Sheet Set: 072875-OrWtr_TaskRcv\Fix\4855PAUL_HELLER
 Rev on: 6/19/2023 12:10 PM
 Individual File Path: c:\Dropbox\Work\FL\jobs\cha_engineering\072875_clearwater\phase 2 & 4 & 5\cad files\G01.dwg

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 between 7AM and 6PM Monday - Saturday in accordance with contract documents. Any work outside these hours shall be requested and coordinated with the City. The Contractor shall additionally coordinate with the City any restricted working hours associated with specific areas or neighborhoods.
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, separation shall be in accordance with 62-555.314 FAC and as detailed in City Standard Detail 402 on drawing CD01.
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. Said drawings shall be made available to City staff (or City's designated representative) upon request. Maintaining As-Built drawings shall be considered a condition precedent to payment.
32. The bottom trench width in an unsupported trench shall be limited to the minimum practicable width allowing working space to place and compact the haunching 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 haunching material or pipe alignment. Dewatering of the trench bottom shall be accomplished using adequate means to allow preparation of bedding, placement of the haunching 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.
33. 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.
34. 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.
35. 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.
36. The Contractor shall protect private property.
37. Placement of service meter boxes shall be in accordance with City Standard Detail 405 on drawing CD01.
38. The Contractor shall provide the City 60 days notice prior to starting any service line connections.

- 40. Contractor to confirm location and placement of service meter boxes with City Inspector and/or City's Representative.
41. All lane closures and work affecting traffic shall be scheduled, coordinated, and approved by the City.
42. Contractor shall be responsible for ensuring all existing infrastructure is properly restrained prior to valve closures, installation of line stops, or tie ins.
43. Contractor shall coordinate with the City any activities associated with bringing new mains into service. New mains shall not be incorporated into the distribution system until the main has been pressure tested, bacteriological testing, and cleared for service in accordance with FDEP requirements.

SURVEY NOTES

- 1. THIS SURVEY WAS PROVIDED BY ECHO UES, INC.
2. DATUMS
2.a. HORIZONTAL - FLORIDA STATE PLANE COORDINATE SYSTEM, WEST ZONE (902), NORTH AMERICAN DATUM OF 1983, 2011 ADJUSTMENT (NAD 83/11) RELATIVE TO THE FLORIDA DEPARTMENT OF TRANSPORTATION'S (FDOT) FLORIDA PERMANENT REFERENCE NETWORK (FPRN), A REAL TIME KINEMATIC (RTK) GLOBAL POSITIONING SYSTEM (GPS).
2.b. VERTICAL CONTROL IS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

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, Catherine Corcoran, at (727) 532-4749, 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 complied 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 twelve 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.

ABBREVIATIONS

Table with 4 columns: Abbreviation, Full Name, Abbreviation, Full Name. Includes entries like ABAN (ABANDON(ED)), FLEX (FLEXIBLE), QTY (QUANTITY), RCP (REINFORCED CONCRETE PIPE), etc.

NOTE: THESE ABBREVIATIONS ARE FOR GENERAL REFERENCE. NOT ALL ABBREVIATIONS MAY BE USED IN THIS DESIGN, NOR IS THIS LIST COMPREHENSIVE. REFER TO INDIVIDUAL DRAWINGS, IF ABBREVIATIONS ARE NOT LISTED.

RECORD DRAWINGS table with columns: SURVEYED BY, DRAWN BY, REVIEWED BY, PROJECT ENGINEER, DATE, APPROVED BY, DATE.

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

CALL 811 SUNSHINE STATE ONE CALL OF FLORIDA

CITY OF CLEARWATER POTABLE WATER PIPING IMPROVEMENTS - PHASE 2&4&5 GENERAL NOTES AND ABBREVIATIONS

Table with columns: DWG NAME, FIELD BOOK, SURVEYED BY, SCALE, CONTRACT NO., DATE DRAWN, DRAWN BY, HORIZ. AS NOTED, JOB NO., DESIGNED BY, CHECKED BY, SHEET NO., OF 64.

CHA CONSULTING, INC. 3507 EAST FRONTAGE ROAD SUITE 100 TAMPA, FL 33607 TEL: (813) 549-0919 CERTIFICATE OF AUTHORIZATION #28386

Parent Sheet: Set: 072875 - CirWtr Task: R247/FPI/2&4&5/PAUL HELLER Rev: 02/22/2023 5:37 PM Individual File Path: C:\Dropbox\Work\FL\Jobs\cha_engineering\072875_clearwater\phase 2 & 4 & 5\cad files\G02

CIVIL SYMBOLS LEGEND

EXISTING	PROPOSED	DESCRIPTION
		SINGLE-LINE PIPE
		REMOVE EXISTING PIPE
		ABANDON AND GROUT FILL EXISTING PIPE
		DOUBLE-LINE/3D PIPE
		FLOW DIRECTION
		FITTINGS
		VALVE
		FIRE HYDRANT ASSEMBLY (INCLUDES VALVE)
		AIR RELEASE VALVE ASSEMBLY
		BENCHMARK
		CONTOURS
		SPOT ELEVATIONS
		WATER/SURFACE WATER FLOW
		LIMITS OF DISTURBANCE ASSOCIATED WITH UTILITY INSTALLATION AND RESTORATION OF ROADWAY (ROAD BASE, TEMPORARY DRIVING SURFACE, ETC.)
		LIMITS OF MILLING AND RESURFACING OF ENTIRE ROADWAY, INCLUDING RESTORATION OF STRIPING, SIGNAGE, REFLECTORS, AND OTHER SURFACE FEATURES
		REMOVE AND REPLACE CONCRETE DRIVEWAY
		REMOVE AND REPLACE CONCRETE SIDEWALK
		REMOVE AND REPLACE CONCRETE CURB AND GUTTER

FITTINGS AND VALVES (DOUBLE-LINE)

	FLG FITTINGS		AIR RELEASE VALVE
	MJ BENDS		FLG FLOW CONTROL VALVE
	MJ CAP		FLG GATE VALVE
	MJ CROSS		MJ GATE VALVE
	MJ PLUG		MJ PLUG VALVE
	MJ REDUCER		FIRE HYDRANT
	MJ SLEEVES		
	MJ TEE		

SURVEY LEGEND

ASPH. = ASPHALT	N = NORTH OR NORTHING
BE = BURIED ELECTRIC	NPW = NON-POTABLE WATER
BFOC = BURIED FIBER OPTIC CABLE	PEDS. = PEDESTRIANS
BTV = BURIED TV CABLE	PVC = POLYVINYL CHLORIDE
CONC. = CONC.	RCW = RECLAIMED WATER
DIA. = DIAMETER	S = SANITARY
DIP = DUCTILE IRON PIPE	SAN = SANITARY
E = EAST OR EASTING	SRVC. = SERVICE
ELEC. = ELECTRIC	S/L = STREET LIGHTING
ELEV. = ELEVATION	SWK. = SIDEWALK
E.O.P. = EDGE OF PAVEMENT	T/S = TRAFFIC SIGNAL
F.O. = FIBER OPTIC	W = WATER
G = GAS	W/ = WITH
ID. = IDENTIFICATION	W.U.P. = WOOD UTILITY POLE
INV. = INVERT	
MKR. = MARKER	

UTILITY OWNERS

- Spectrum**
Attention: Mr. Ted Bingham
700 Carillon Parkway, Suite 6
St. Petersburg, Florida 3716-1123
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
Phone: (727) 562-5767
- 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:
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**
Engineering Department - Public Utilities - Potable, Wastewater, and Reclaimed
Attention: Fred Hemerick
1650 North Arcturus Avenue
Clearwater, Florida 33755
Phone: (727) 562-4960 Ext. 7249

CAUTIONARY SYMBOLS LEGEND

CONTRACTOR SHALL EXERCISE CAUTION IN VICINITY OF EXISTING GAS MAIN

PHASE 2 QUANTITY TAKEOFF TABLE

AREA	ITEM	UNIT	AMOUNT
252A	REMOVE EXISTING 8" PIPE	LF	20
	REMOVE AND REPLACE CONCRETE SIDEWALK	SY	8
268B	REMOVE EXISTING 2" PIPE	LF	228
	GROUT AND ABANDON 2" PIPE	LF	43
	REMOVE AND REPLACE ASPHALT PAVEMENT	SY	186
	MILL AND OVERLAY ASPHALT PAVEMENT	SY	104
	REMOVE AND REPLACE CONCRETE SIDEWALK	SY	30
287A	REMOVE AND REPLACE ASPHALT PAVEMENT	SY	498
	MILL AND OVERLAY ASPHALT PAVEMENT	SY	988
	REMOVE AND REPLACE CONCRETE DRIVEWAY	SY	168
	REMOVE AND REPLACE CONC CURB & GUTTER	LF	1002
288A	REMOVE AND REPLACE CONCRETE SIDEWALK	SY	549
	REMOVE EXISTING 2" PIPE	LF	1267
	GROUT AND ABANDON 2" PIPE	LF	128
	REMOVE AND REPLACE CONC CURB & GUTTER	LF	230
295B	REMOVE AND REPLACE ASPHALT PAVEMENT	SY	132
	REMOVE AND REPLACE CONCRETE SIDEWALK	SY	68
	REMOVE EXISTING 2" PIPE	LF	287
	GROUT AND ABANDON 2" PIPE	LF	96
	REMOVE AND REPLACE CONC CURB & GUTTER	LF	20
308	REMOVE AND REPLACE ASPHALT PAVEMENT	SY	276
	REMOVE AND REPLACE CONCRETE SIDEWALK	SY	4
	REMOVE AND REPLACE CONCRETE DRIVEWAY	SY	6
	MILL AND OVERLAY ASPHALT PAVEMENT	SY	598

PHASE 4 QUANTITY TAKEOFF TABLE

AREA	ITEM	UNIT	AMOUNT
261B	REMOVE AND REPLACE ASPHALT PAVEMENT	SY	585
	GROUT AND ABANDON 20" PIPE	LF	870
	REMOVE AND REPLACE CONCRETE DRIVEWAY	SY	30
295A	REMOVE AND REPLACE CONC CURB & GUTTER	LF	122
	REMOVE EXISTING 6" PIPE	LF	1273
	REMOVE AND REPLACE CONC CURB & GUTTER	LF	1123
	REMOVE AND REPLACE CONCRETE SIDEWALK	SY	6
	REMOVE AND REPLACE ASPHALT PAVEMENT	SY	260
100A	REMOVE AND REPLACE CONCRETE DRIVEWAY	SY	32
	REMOVE EXISTING 8" PIPE	LF	1170
	REMOVE EXISTING 4" PIPE	LF	40
	REMOVE AND REPLACE CONC CURB & GUTTER	LF	67
	REMOVE AND REPLACE ASPHALT PAVEMENT	SY	522
	MILL AND OVERLAY ASPHALT PAVEMENT	SY	2217
274A	REMOVE AND REPLACE CONCRETE SIDEWALK	SY	411
	REMOVE AND REPLACE CONCRETE DRIVEWAY	SY	79
	REMOVE AND REPLACE CONC CURB & GUTTER	LF	8
291B	REMOVE AND REPLACE ASPHALT PAVEMENT	SY	44
	GROUT AND ABANDON XX" PIPE	LF	391
	REMOVE AND REPLACE CONCRETE SIDEWALK	SY	25
	REMOVE AND REPLACE ASPHALT PAVEMENT	SY	31
269A	REMOVE AND REPLACE CONCRETE DRIVEWAY	SY	104
	REMOVE AND REPLACE CONC CURB & GUTTER	LF	107
289B	REMOVE EXISTING PIPE	LF	294
	REMOVE 2" EXISTING PIPE	LF	204
	REMOVE AND REPLACE ASPHALT PAVEMENT	SY	239
	REMOVE AND REPLACE CONCRETE DRIVEWAY	SY	307

PHASE 5 QUANTITY TAKEOFF TABLE

AREA	ITEM	UNIT	AMOUNT
287B	GROUT FILL EXISTING 2" PIPE	LF	1096
	REMOVE AND REPLACE CONC CURB & GUTTER	LF	22
	REMOVE AND REPLACE ASPHALT PAVEMENT	SY	46
	MILL AND OVERLAY ASPHALT PAVEMENT	SY	323
	REMOVE AND REPLACE CONCRETE SIDEWALK	SY	46
	REMOVE AND REPLACE CONCRETE DRIVEWAY	SY	56
296B	GROUT FILL EXISTING 2" PIPE	LF	4008
	REMOVE AND REPLACE CONC CURB & GUTTER	LF	167
	REMOVE AND REPLACE ASPHALT PAVEMENT	SY	233
	MILL AND OVERLAY ASPHALT PAVEMENT	SY	141
307A	REMOVE AND REPLACE CONCRETE SIDEWALK	SY	148
	REMOVE AND REPLACE CONCRETE DRIVEWAY	SY	612
	GROUT FILL EXISTING 2" PIPE	LF	1533
	REMOVE AND REPLACE CONC CURB & GUTTER	LF	304
	REMOVE AND REPLACE ASPHALT PAVEMENT	SY	129
	REMOVE AND REPLACE CONCRETE DRIVEWAY	SY	223
	MILL AND OVERLAY ASPHALT PAVEMENT	SY	263

NOTE: THESE LEGENDS ARE FOR GENERAL REFERENCE. NOT ALL ABBREVIATIONS, SYMBOLS, PROCESSES, MATERIALS, OR FITTINGS MAY BE USED IN THIS DESIGN, NOR IS THIS LEGEND COMPREHENSIVE. REFER TO INDIVIDUAL DRAWING LEGEND(S), IF ABBREVIATIONS ARE NOT LISTED. INDIVIDUAL DISCIPLINE STANDARD LEGENDS SUPERCEDE THIS GENERAL LEGEND, IF PROVIDED.

Parent Sheet Set: 072875-CirWtr_TaskRsk\771624485\PAUL_HELLER Individual File Path: C:\Dropbox\Work\VL\jobs\cha_engineering\072875_clearwater\phase 2 & 4 & 5\cad_files\G03-G05 Rev on: 6/19/2023 11:39 AM

RECORD DRAWINGS		REVISION	
SURVEYED BY:	DRAWN BY:	0: ISSUED FOR BID	VVV 06/2023
REVIEWED BY:	PROJECT ENGINEER	DATE	DATE
APPROVED BY:	DATE	BY	DATE

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

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CITY OF CLEARWATER
POTABLE WATER PIPING IMPROVEMENTS - PHASE 2&4&5
LEGENDS AND QUANTITIES

DWG NAME:	FIELD BOOK:	SURVEYED BY:	SCALE:
G03	N/A	ECHO UES	VERT. AS NOTED
CONTRACT NO.:	DATE DRAWN:	DRAWN BY:	HORIZ. AS NOTED
18-0040-UT	06/2023	VVV/PFH	
JOB NO.:	DESIGNED BY:	CHECKED BY:	SHEET NO.:
072875	ESW/WTH	JRV	03 OF 64

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3507 EAST FRONTAGE ROAD SUITE 100
TAMPA, FL 33607
TEL: (813) 549-8919
CERTIFICATE OF AUTHORIZATION #23836

Parent Sheet Set: 072875-CirWtr Task: R24/PF/24/48/5PAUL HELLER Rev on: 6/19/2023 11:39 AM Individual File Path: C:\Dropbox\Work\FL\Jobs\cha engineering\072875 clearwater\Phase 2 & 4 & 5\cod files\G03-G05

PHASE 2 TEST HOLES table with columns: Test Hole, Utility Type, Utility Material, Utility Size Outside Diameter (inches), Utility Manual Depth (Feet), Identified By, Surface Type, Surface Thickness (inches), Apparent Utility Owner, Northing, Easting, Ground Elevation, Utility Elevation.

PHASE 4 TEST HOLES table with columns: Test Hole, Utility Type, Utility Material, Utility Size Outside Diameter (inches), Utility Manual Depth (feet), Identified By, Surface Type, Surface Thickness (inches), Utility Owner, Northing, Easting, Ground Elevation, Utility Elevation.

PHASE 5 TEST HOLES table with columns: Test Hole, Utility Type, Utility Material, Utility Size Outside Diameter (inches), Utility Manual Depth (feet), Identified By, Surface Type, Surface Thickness (inches), Utility Owner, Northing, Easting, Ground Elevation, Utility Elevation.

RECORD DRAWINGS table with columns: SURVEYED BY, DRAWN BY, REVIEWED BY, PROJECT ENGINEER, DATE, APPROVED BY, DATE.

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



CITY OF CLEARWATER POTABLE WATER PIPING IMPROVEMENTS - PHASE 2&4&5 TEST HOLE INFORMATION

Table with columns: DWG NAME, FIELD BOOK, SURVEYED BY, SCALE, CONTRACT NO., DATE DRAWN, DRAWN BY, HORIZ. AS NOTED, JOB NO., DESIGNED BY, CHECKED BY, SHEET NO., and a note: THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY WESTON HAGGEN. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.



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AREA 295A PROJECT CONTROL				
POINT NAME	(Y) NORTHING	(X) EASTING	(Z) ELEVATION	DESCRIPTION
A99	1316665.14	397955.29	36.52	5/8-IN IR W/ PLASTIC CAP STAMPED "ECHO UES TP LB 8184"
A100	1316666.64	398059.88	36.89	MAG NAIL & WASHER "ECHO UES TP LB 8184"
A101	1316703.94	398246.31	37.53	MAG NAIL & WASHER "ECHO UES TP LB 8184"
A102	1316661.04	398557.12	37.24	MAG NAIL & WASHER "ECHO UES TP LB 8184"
A103	1316690.13	399039.98	39.34	5/8-IN IR W/ PLASTIC CAP STAMPED "ECHO UES TP LB 8184"
A104	1316655.20	399157.58	40.76	MAG NAIL & WASHER "ECHO UES TP LB 8184"
A105	1316701.26	399219.05	40.65	MAG NAIL & WASHER "LB 7055"
A106	1316698.45	399280.69	40.90	MAG NAIL & WASHER "LB 7055"

AREA 287A PROJECT CONTROL				
POINT NAME	(Y) NORTHING	(X) EASTING	(Z) ELEVATION	DESCRIPTION
A012	1320988.04	400545.08	33.34	MAG NAIL & WASHER "ECHO UES TP LB 8184"
A013	1321071.76	400560.32	33.25	MAG NAIL & WASHER "ECHO UES TP LB 8184"
A55	1319339.62	400646.89	39.85	5/8-IN IR W/ PLASTIC CAP STAMPED "ECHO UES TP LB 8184"
A56	1319464.46	400726.73	40.77	MAG NAIL & WASHER "ECHO UES TP LB 8184"
A57	1319512.93	400611.79	39.98	5/8-IN IR W/ PLASTIC CAP STAMPED "ECHO UES TP LB 8184"
A58	1319814.40	400571.28	35.05	5/8-IN IR W/ PLASTIC CAP STAMPED "ECHO UES TP LB 8184"
A59	1320081.28	400605.78	31.43	5/8-IN IR W/ PLASTIC CAP STAMPED "ECHO UES TP LB 8184"
A60	1320449.16	400601.97	30.00	5/8-IN IR W/ PLASTIC CAP STAMPED "ECHO UES TP LB 8184"
A61	1320770.51	400564.59	31.18	MAG NAIL & WASHER "ECHO UES TP LB 8184"

AREA 261B PROJECT CONTROL				
POINT NAME	(Y) NORTHING	(X) EASTING	(Z) ELEVATION	DESCRIPTION
A132	1329889.62	409135.00	60.30	MAG NAIL & WASHER STAMPED "ECHO UES TP LB 8184"
A133	1330055.57	409227.06	58.01	MAG NAIL & WASHER STAMPED "ECHO UES TP LB 8184"
A134	1330319.36	409198.27	58.78	MAG NAIL & WASHER STAMPED "ECHO UES TP LB 8184"
A135	1330510.60	409186.43	59.33	MAG NAIL & WASHER STAMPED "ECHO UES TP LB 8184"
A136	1330743.91	409182.56	59.82	MAG NAIL & WASHER STAMPED "ECHO UES TP LB 8184"
A137	1330747.81	409465.25	59.04	MAG NAIL & WASHER STAMPED "ECHO UES TP LB 8184"
A138	1330740.83	409706.95	58.35	MAG NAIL & WASHER STAMPED "ECHO UES TP LB 8184"
A139	1330789.46	409717.10	58.42	MAG NAIL & WASHER STAMPED "ECHO UES TP LB 8184"

AREA 296B2 PROJECT CONTROL				
POINT NAME	(Y) NORTHING	(X) EASTING	(Z) ELEVATION	DESCRIPTION
A200	1316969.45	401964.52	46.53	MAG NAIL & WASHER "ECHO UES TP LB 8184"
A201	1316937.49	402119.34	45.97	MAG NAIL & WASHER "ECHO UES TP LB 8184"
A202	1316961.34	402352.04	44.81	MAG NAIL & WASHER "ECHO UES TP LB 8184"
A203	1316933.99	402529.44	43.52	MAG NAIL & WASHER "ECHO UES TP LB 8184"
A204	1316956.20	402812.74	36.97	MAG NAIL & WASHER "ECHO UES TP LB 8184"
A205	1316925.73	403141.48	28.89	MAG NAIL & WASHER "ECHO UES TP LB 8184"
A206	1316918.56	403226.60	27.89	MAG NAIL & WASHER "ECHO UES TP LB 8184"
A207	1316956.70	403227.05	27.40	MAG NAIL & WASHER "ECHO UES TP LB 8184"
A208	1317281.23	403256.79	24.87	MAG NAIL & WASHER "ECHO UES TP LB 8184"
A209	1317284.28	403128.26	27.62	MAG NAIL & WASHER "ECHO UES TP LB 8184"
A210	1317263.49	402760.95	37.30	MAG NAIL & WASHER "ECHO UES TP LB 8184"
A211	1317264.18	402518.13	42.06	MAG NAIL & WASHER "ECHO UES TP LB 8184"
A212	1317296.24	402254.83	46.38	MAG NAIL & WASHER "ECHO UES TP LB 8184"
A213	1317272.57	402105.62	45.26	MAG NAIL & WASHER "ECHO UES TP LB 8184"
A214	1317304.50	401965.25	42.83	MAG NAIL & WASHER "ECHO UES TP LB 8184"
A215	1317640.90	401965.45	39.53	MAG NAIL & WASHER "ECHO UES TP LB 8184"
A216	1317607.44	402122.98	41.56	MAG NAIL & WASHER "ECHO UES TP LB 8184"
A217	1317629.99	402327.89	39.12	MAG NAIL & WASHER "ECHO UES TP LB 8184"
A218	1317597.27	402518.30	34.97	MAG NAIL & WASHER "ECHO UES TP LB 8184"
A219	1317625.07	402677.14	32.23	MAG NAIL & WASHER "ECHO UES TP LB 8184"
A220	1317596.07	402938.64	27.52	MAG NAIL & WASHER "ECHO UES TP LB 8184"
A221	1317619.50	403070.16	25.20	MAG NAIL & WASHER "ECHO UES TP LB 8184"
A222	1317589.49	403227.69	23.43	MAG NAIL & WASHER "ECHO UES TP LB 8184"
A223	1317623.53	403230.07	23.14	MAG NAIL & WASHER "ECHO UES TP LB 8184"

AREA 291B PROJECT CONTROL				
POINT NAME	(Y) NORTHING	(X) EASTING	(Z) ELEVATION	DESCRIPTION
A156	1320504.67	423397.04	34.55	MAG NAIL & WASHER STAMPED "ECHO UES TP LB 8184"
A157	1320627.15	423398.50	35.19	MAG NAIL & WASHER STAMPED "ECHO UES TP LB 8184"
A158	1320498.01	423311.91	35.34	IRON ROD & CAP STAMPED "ECHO UES TP LB 8184"
A159	1320628.76	423314.50	36.33	IRON ROD & CAP STAMPED "ECHO UES TP LB 8184"
A160	1320604.81	423237.07	35.28	MAG NAIL & WASHER STAMPED "ECHO UES TP LB 8184"
A161	1320524.72	423295.08	35.17	MAG NAIL & WASHER STAMPED "ECHO UES TP LB 8184"
A162	1320454.64	423238.23	34.82	MAG NAIL & WASHER STAMPED "ECHO UES TP LB 8184"
A163	1321196.47	423232.71	44.57	MAG NAIL & WASHER STAMPED "ECHO UES TP LB 8184"
A164	1321223.52	423299.65	44.31	MAG NAIL & WASHER STAMPED "ECHO UES TP LB 8184"
A165	1321164.08	423279.69	44.19	MAG NAIL & WASHER STAMPED "ECHO UES TP LB 8184"
A166	1321555.37	424049.10	36.55	MAG NAIL & WASHER STAMPED "ECHO UES TP LB 8184"
A167	1321665.81	424051.07	38.29	IRON ROD & CAP STAMPED "ECHO UES TP LB 8184"
A168	1321588.33	424207.87	38.22	MAG NAIL & WASHER STAMPED "ECHO UES TP LB 8184"
A169	1321650.96	424217.44	38.66	IRON ROD & CAP STAMPED "ECHO UES TP LB 8184"
A170	1321691.12	423853.68	41.63	MAG NAIL & WASHER STAMPED "ECHO UES TP LB 8184"
A171	1321733.07	424103.13	40.94	MAG NAIL & WASHER STAMPED "ECHO UES TP LB 8184"
A172	1321733.05	424330.63	40.12	IRON ROD & CAP STAMPED "ECHO UES TP LB 8184"

AREA 252A PROJECT CONTROL				
POINT NAME	(Y) NORTHING	(X) EASTING	(Z) ELEVATION	DESCRIPTION
A66	1329855.21	405634.15	30.01	5/8-IN IR W/ PLASTIC CAP STAMPED "ECHO UES TP LB 8184"
A67	1329959.92	405614.92	25.60	MAG NAIL & WASHER "ECHO UES TP LB 8184"
A68	1329853.31	405991.03	33.80	5/8-IN IR W/ PLASTIC CAP STAMPED "ECHO UES TP LB 8184"
A69	1329842.92	406320.65	33.98	MAG NAIL & WASHER "ECHO UES TP LB 8184"
A127	1329931.61	405868.28	31.96	5/8-IN IR W/ PLASTIC CAP STAMPED "ECHO UES TP LB 8184"

AREA 100A PROJECT CONTROL				
POINT NAME	(Y) NORTHING	(X) EASTING	(Z) ELEVATION	DESCRIPTION
A73	1321366.78	400988.16	36.23	MAG NAIL & WASHER STAMPED "ECHO UES TP LB 8184"
A74	1321401.00	400946.38	36.32	MAG NAIL & WASHER STAMPED "ECHO UES TP LB 8184"
A75	1321533.80	401260.92	37.59	MAG NAIL & WASHER STAMPED "ECHO UES TP LB 8184"
A76	1321717.51	401489.29	39.13	MAG NAIL & WASHER STAMPED "ECHO UES TP LB 8184"
A77	1321840.29	401683.90	40.02	MAG NAIL & WASHER STAMPED "ECHO UES TP LB 8184"
A78	1321891.84	401757.33	40.72	CONCRETE MONUMENT

AREA 288A PROJECT CONTROL				
POINT NAME	(Y) NORTHING	(X) EASTING	(Z) ELEVATION	DESCRIPTION
A107	1319189.06	404493.69	43.54	5/8-IN IR W/ PLASTIC CAP STAMPED "ECHO UES TP LB 8184"
A108	1319140.34	404488.85	43.65	MAG NAIL & WASHER "ECHO UES TP LB 8184"
A109	1319205.50	404826.26	55.47	5/8-IN IR W/ PLASTIC CAP STAMPED "ECHO UES TP LB 8184"
A110	1319200.09	405191.33	65.82	5/8-IN IR W/ PLASTIC CAP STAMPED "ECHO UES TP LB 8184"
A111	1319193.06	405591.14	72.89	5/8-IN IR W/ PLASTIC CAP STAMPED "ECHO UES TP LB 8184"
A112	1319180.15	405974.22	74.68	5/8-IN IR W/ PLASTIC CAP STAMPED "ECHO UES TP LB 8184"
A113	1319159.09	405965.50	75.11	MAG NAIL & WASHER "ECHO UES TP LB 8184"

AREA 306B PROJECT CONTROL				
POINT NAME	(Y) NORTHING	(X) EASTING	(Z) ELEVATION	DESCRIPTION
A119	1316606.27	402002.40	51.60	MAG NAIL & WASHER STAMPED "ECHO UES TP LB 8184"
A120	1316604.52	402140.87	52.47	MAG NAIL & WASHER STAMPED "ECHO UES TP LB 8184"
A121	1316601.99	402333.67	53.00	MAG NAIL & WASHER STAMPED "ECHO UES TP LB 8184"
A122	1316579.73	402566.99	52.36	MAG NAIL & WASHER STAMPED "ECHO UES TP LB 8184"
A123	1316257.81	402567.54	55.72	MAG NAIL & WASHER STAMPED "ECHO UES TP LB 8184"
A124	1315955.04	402564.29	58.44	MAG NAIL & WASHER STAMPED "ECHO UES TP LB 8184"
A125	1315931.64	402600.77	58.42	MAG NAIL & WASHER STAMPED "ECHO UES TP LB 8184"

AREA 289B PROJECT CONTROL				
POINT NAME	(Y) NORTHING	(X) EASTING	(Z) ELEVATION	DESCRIPTION
A140	1321549.02	414382.44	75.47	MAG NAIL & WASHER STAMPED "ECHO UES TP LB 8184"
A141	1321466.38	414389.53	74.82	MAG NAIL & WASHER STAMPED "ECHO UES TP LB 8184"
A142	1321447.31	414249.80	73.20	MAG NAIL & WASHER STAMPED "ECHO UES TP LB 8184"
A143	1321413.35	414224.54	73.09	MAG NAIL & WASHER STAMPED "ECHO UES TP LB 8184"

AREA 308 PROJECT CONTROL				
POINT NAME	(Y) NORTHING	(X) EASTING	(Z) ELEVATION	DESCRIPTION
A96	1319348.11	401266.23	44.41	MAG NAIL & WASHER "ECHO UES TP LB 8184"
A97	1319478.83	401263.58	44.74	MAG NAIL & WASHER "ECHO UES TP LB 8184"
A98	1319534.34	401234.17	45.57	MAG NAIL & WASHER "ECHO UES TP LB 8184"

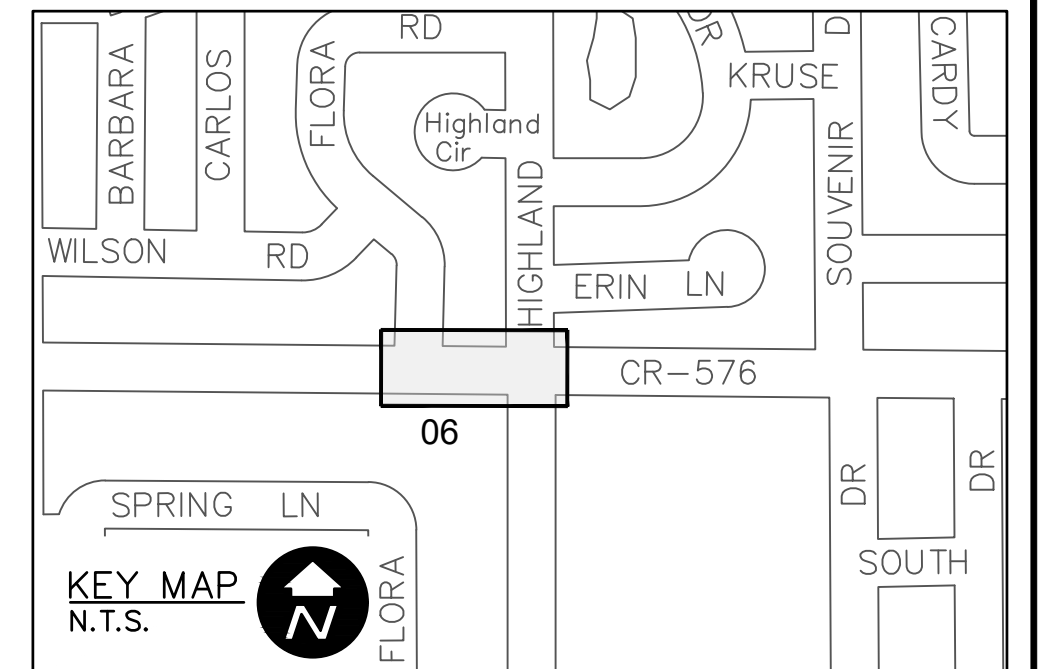
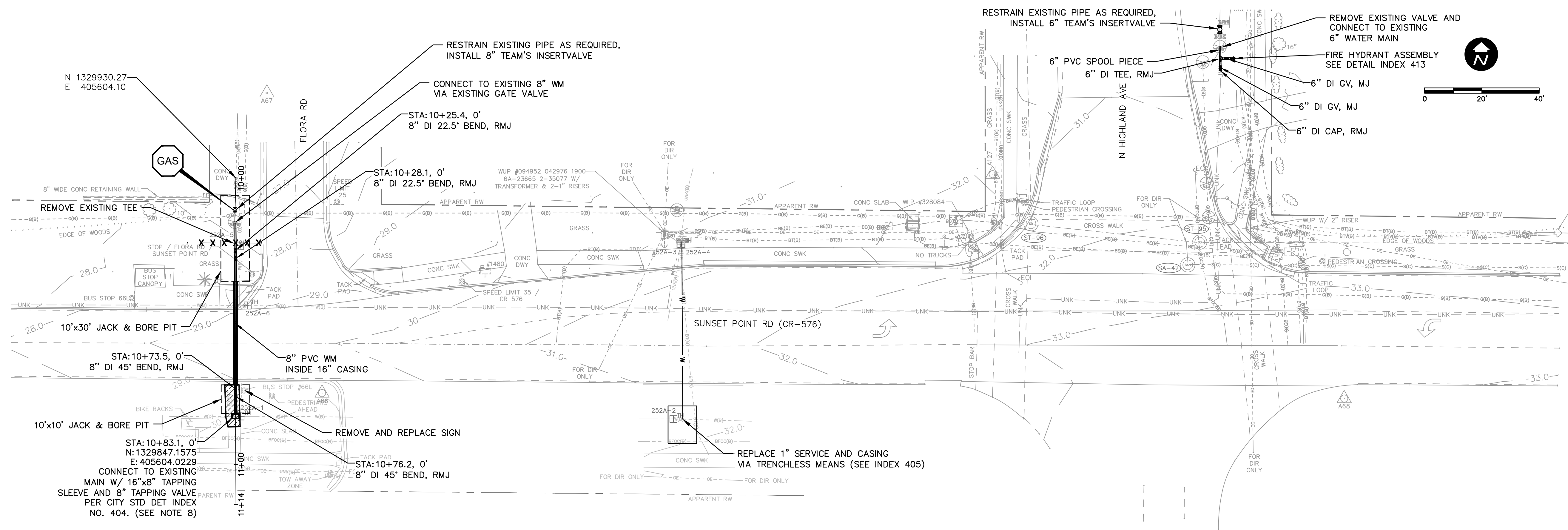
AREA 269A PROJECT CONTROL				
POINT NAME	(Y) NORTHING	(X) EASTING	(Z) ELEVATION	DESCRIPTION
A49	1326582.29	399735.16	29.69	IRON ROD & CAP STAMPED "ECHO UES TP LB 8184"
A50	1326605.29	399852.23	27.97	MAG NAIL & WASHER STAMPED "ECHO UES TP LB 8184"
A54	1327170.07	399959.13	24.13	MAG NAIL & WASHER STAMPED "ECHO UES TP LB 8184"
A70	1326630.78	399962.38	26.74	IRON ROD & CAP STAMPED "ECHO UES TP LB 8184"
A71	1326898.81	400067.77	23.67	IRON ROD & CAP STAMPED "ECHO UES TP LB 8184"
A72	1327147.42	400144.76	22.14	MAG NAIL & WASHER STAMPED "ECHO UES TP LB 8184"

AREA 279B PROJECT CONTROL				
POINT NAME	(Y) NORTHING	(X) EASTING	(Z) ELEVATION	DESCRIPTION
A173	1324563.04	408648.89	67.04	IRON ROD & CAP STAMPED "ECHO UES TP LB 8184"
A174	1324432.07	408680.08	68.05	IRON ROD & CAP STAMPED "ECHO UES TP LB 8184"
A175	1324315.63	408599.04	66.10	IRON ROD & CAP STAMPED "ECHO UES TP LB 8184"
A176	1324185.42	408675.09	69.13	MAG NAIL & WASHER STAMPED "ECHO UES TP LB 8184"
A177	1324116.68	408676.10	69.34	IRON ROD & CAP STAMPED "ECHO UES TP LB 8184"
A178	1324083.93	408590.19	69.35	IRON ROD & CAP STAMPED "ECHO UES TP LB 8184"

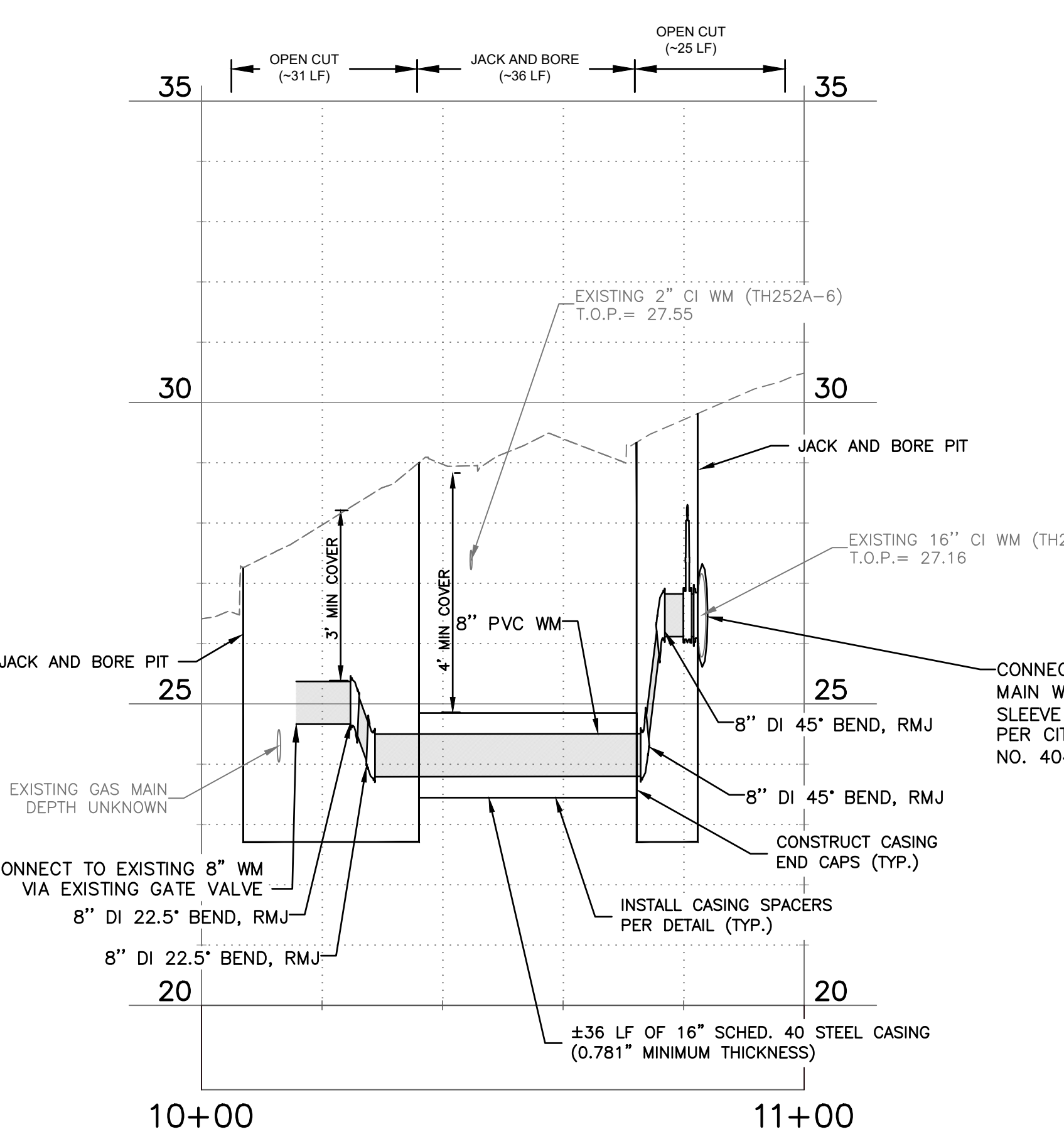
AREA 295B PROJECT CONTROL				
POINT NAME	(Y) NORTHING	(X) EASTING	(Z) ELEVATION	DESCRIPTION
A37	1317985.69	397367.67	36.66	5/8-IN IR W/ PLASTIC CAP STAMPED "ECHO UES TP LB 8184"
A38	1318212.04	397377.58	36.97	MAG NAIL & WASHER STAMPED "ECHO UES TP LB 8184"
A39	1318411.32	397361.57	37.37	MAG NAIL & WASHER STAMPED "ECHO UES TP LB 8184"

AREA 269A ADDITIONAL PROJECT CONTROL				
POINT NAME	(Y) NORTHING	(X) EASTING	(Z) ELEVATION	DESCRIPTION
A51	1326755.32	399879.19	26.60	IRON ROD & CAP STAMPED "ECHO UES TP LB 8184"
A52	1326844.69	399955.05	25.47	MAG NAIL & WASHER STAMPED "ECHO UES TP LB 8184"
WW1	1326977.88	399987.95	27.19	MAG NAIL & WASHER STAMPED "ECHO UES TP LB 8184"

AREA 268B PROJECT CONTROL				
POINT NAME	(Y) NORTHING	(X) EASTING	(Z) ELEVATION	DESCRIPTION
A62	1326690.12	398675.87	19.27	SET MAG NAIL & WASHER STAMPED "ECHO UES TP LB 8184"
A64	1326654.13	398864.54	24.99	SET MAG NAIL & WASHER STAMPED "ECHO UES TP LB 8184"
A65	1326656.62	39897		



- GENERAL NOTES**
- MINIMUM SEPARATION BETWEEN PROPOSED WATER MAIN AND EXISTING GAS MAIN SHALL BE 3'.
 - DEFLECT PIPE AT JOINTS MAXIMUM 75% OF MANUFACTURERS ALLOWABLE DEFLECTION.
 - CONTRACTOR SHALL TEMPORARILY INSTALL AND MAINTAIN A TEMPORARY DRIVING SURFACE (ASPHALT MILLINGS, ETC.) WHEN REMOVING ANY DRIVEWAYS UNTIL THE DRIVEWAYS ARE PERMANENTLY RESTORED.
 - CONTRACTOR SHALL MAINTAIN ROADWAY ACCESS AT ALL TIMES.
 - INSTALL 1" RESIDENTIAL OR 2" COMMERCIAL SERVICE LINE AND PW METER BOX ADJACENT TO EACH EXISTING WATER METER/PARCEL (5' MIN SEPARATION), ON BOTH SIDES OF ROW WITH SHORT SERVICES AND LONG SERVICES WITH CASINGS, IN ACCORDANCE WITH CITY INDEX DETAILS. FOR NEW SERVICES, CONTRACTOR TO CONFIRM LOCATION AND PLACEMENT OF SERVICE METER BOXES WITH CITY INSPECTOR AND/OR CITY'S REPRESENTATIVE.
 - CONTRACTOR SHALL VERIFY LOCATION, MATERIAL, AND DEPTH OF EXISTING INFRASTRUCTURE PRIOR TO CONSTRUCTION.
 - CONTRACTOR SHALL MAINTAIN WATER SERVICE AT ALL TIMES TO CUSTOMERS. ANY INTERRUPTIONS SHALL BE COORDINATED WITH THE CITY WITH MINIMUM 10 DAY NOTICE.
 - ONLY THE CITY MAY TURN EXISTING VALVES. IF POTABLE WATER MAIN ISOLATION IS REQUIRED, THE CONTRACTOR SHALL NOTIFY THE CITY AND RPR INSPECTOR.
 - CONTRACTOR TO INSTALL TREE PROTECTION AS NECESSARY IN ACCORDANCE WITH CITY STANDARD DETAIL 909. CONTRACTOR SHALL COORDINATE WITH ARBORIST FOR PROPER COMPLETION OF TREE PROTECTION AND ROOT PRUNING IN ACCORDANCE WITH CITY SPECIFICATIONS.
 - CONTRACTOR TO COORDINATE WITH GAS UTILITY OWNER FOR ANY NECESSARY REQUIREMENTS DURING CONSTRUCTION.
 - CONTRACTOR SHALL VERIFY ALL CUSTOMERS/BUILDINGS HAVE WATER SERVICE PRIOR TO CUTTING AND CAPPING EXISTING WATER MAINS.
 - CONTRACTOR SHALL RECONNECT NEW WATER SERVICE LINES TO THE EXISTING METER LOCATION UNDER SUPERVISION OF THE CITY'S REPRESENTATIVE CONSTRUCTION INSPECTOR.
 - CONTRACTOR SHALL ADJUST ALL WATER METER(S) TO CURRENT GRADE.
 - CONTRACTOR SHALL RESTRRAIN EXISTING MAINS AS NECESSARY IN ACCORDANCE WITH CITY STANDARD DETAIL 407. WHERE INSTALLATION OF RESTRAINTS MAY REQUIRE EXCAVATION OF ROADWAY, CONTRACTOR SHALL COORDINATE WITH CITY AND CITY'S REPRESENTATIVE TO CONFIRM RESTRAINING PRIOR TO INSTALLATION.
 - CONTRACTOR SHALL HAVE FIELD MEETING WITH THE CITY AND/OR RPR INSPECTOR PRIOR TO INSTALLATION OF ANY TEAM'S INSERTVALVE. TO CONFIRM IF EXISTING VALVES MAY ISOLATE THE MAIN IN LIEU OF A TEAM'S INSERTVALVE.
 - CONTRACTOR SHALL HAVE OR USE A CERTIFIED PLUMBING CONTRACTOR TO INSTALL THE CUSTOMER SIDE SERVICES AND SHALL OBTAIN CITY PLUMBING PERMITS.



LEGEND

- X X X X X X X X -	REMOVE EXISTING PIPING
---	GROUT AND ABANDON EXISTING PIPING
---	REMOVE AND REPLACE CONCRETE CURB AND GUTTER
▨	REMOVE AND REPLACE ASPHALT PAVEMENT, INCLUDING PAVEMENT MARKINGS
▨	MILL AND OVERLAY ASPHALT PAVEMENT
▨	REMOVE AND REPLACE CONCRETE DRIVEWAY
▨	REMOVE AND REPLACE CONCRETE SIDEWALK

NOTE: PATTERN ROTATIONS MAY DIFFER FROM LEGEND IN PLAN VIEW. PLEASE SEE QUANTITY TAKEOFF TABLE IN GENERAL DRAWINGS.

Parent Sheet Set: 072875-CirWtr_TaskRsk_Plan_Prf.ctb by: PAUL HELLER Rev on: 3/8/2023 4:28 PM Individual File Path: C:\Dropbox\Work\FL\Jobs\cha_engineering\072875_clearwater\phase 2 & 4 & 5\cad files\Ph2_252A_072875_C3D_Civil\Sheets

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SURVEYED BY:	DRAWN BY:	0: ISSUED FOR BID	VVV 06/2023
REVIEWED BY:	PROJECT ENGINEER	BY	DATE
APPROVED BY:	DATE		

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



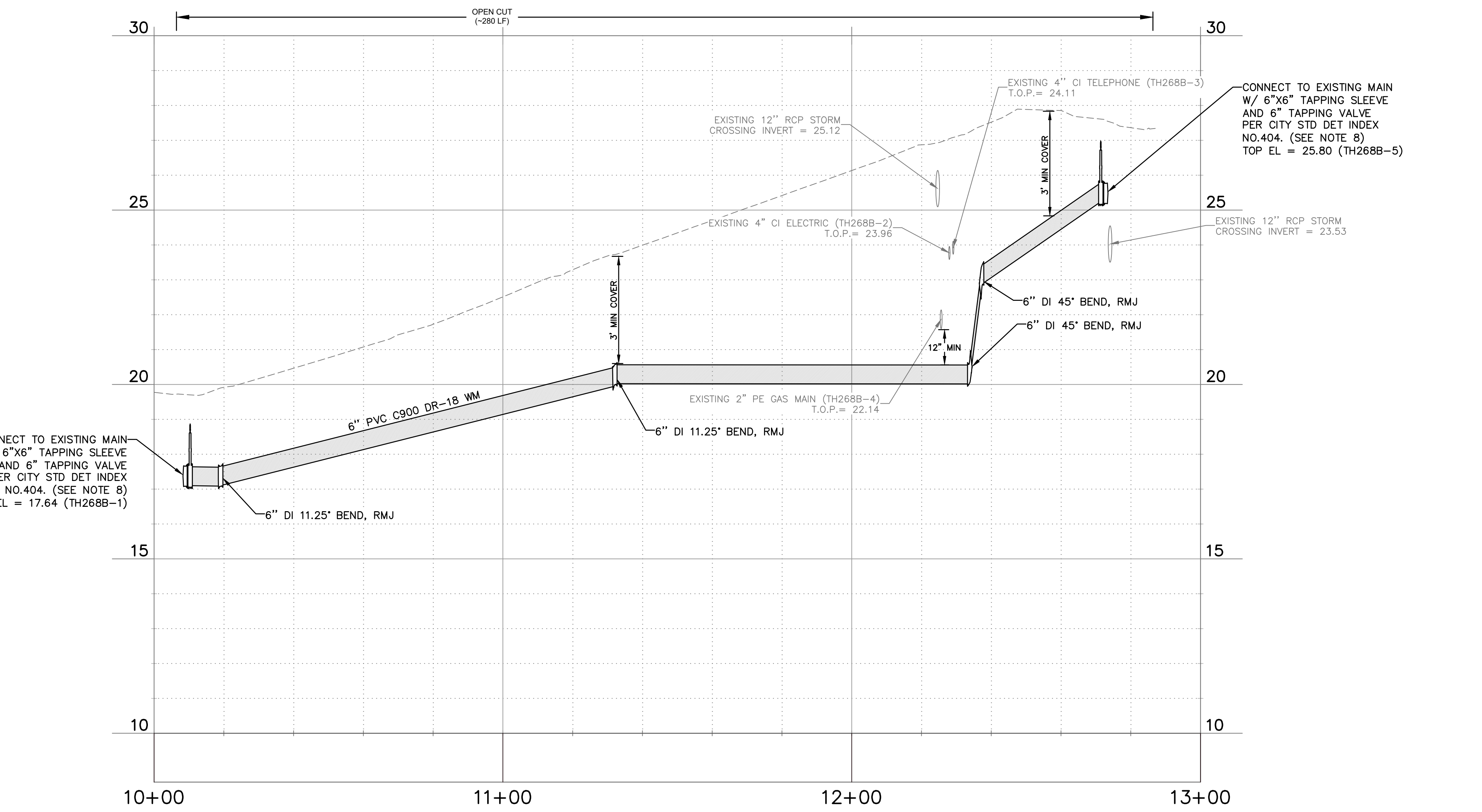
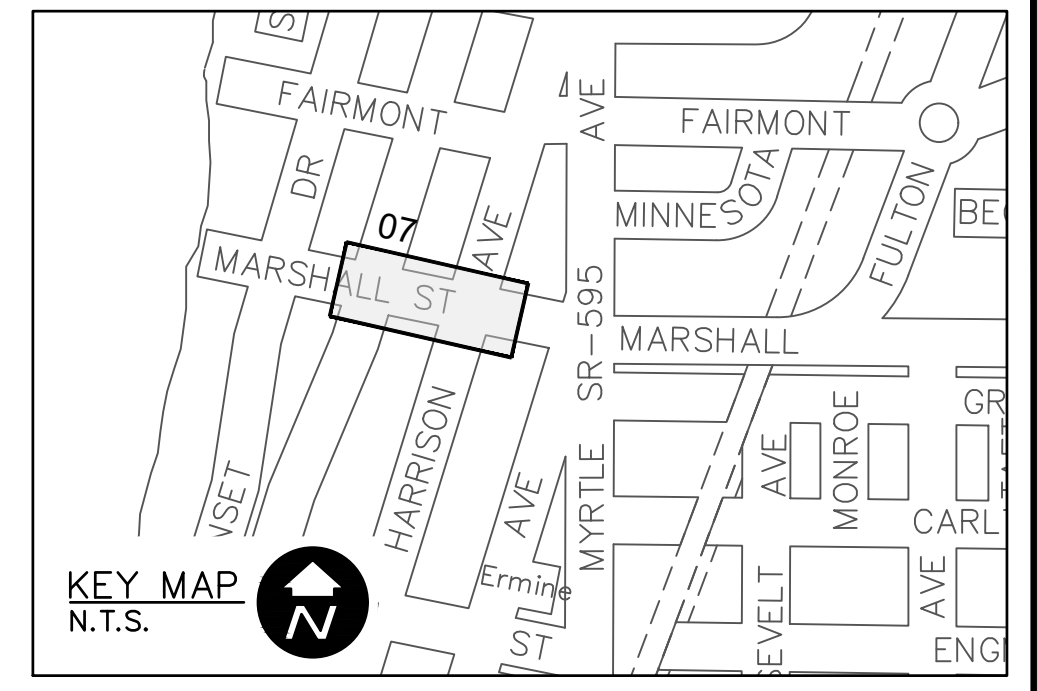
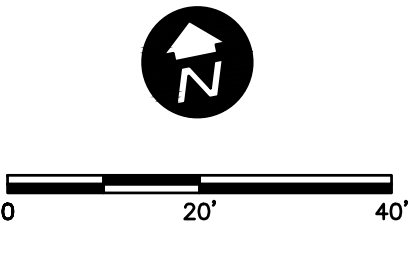
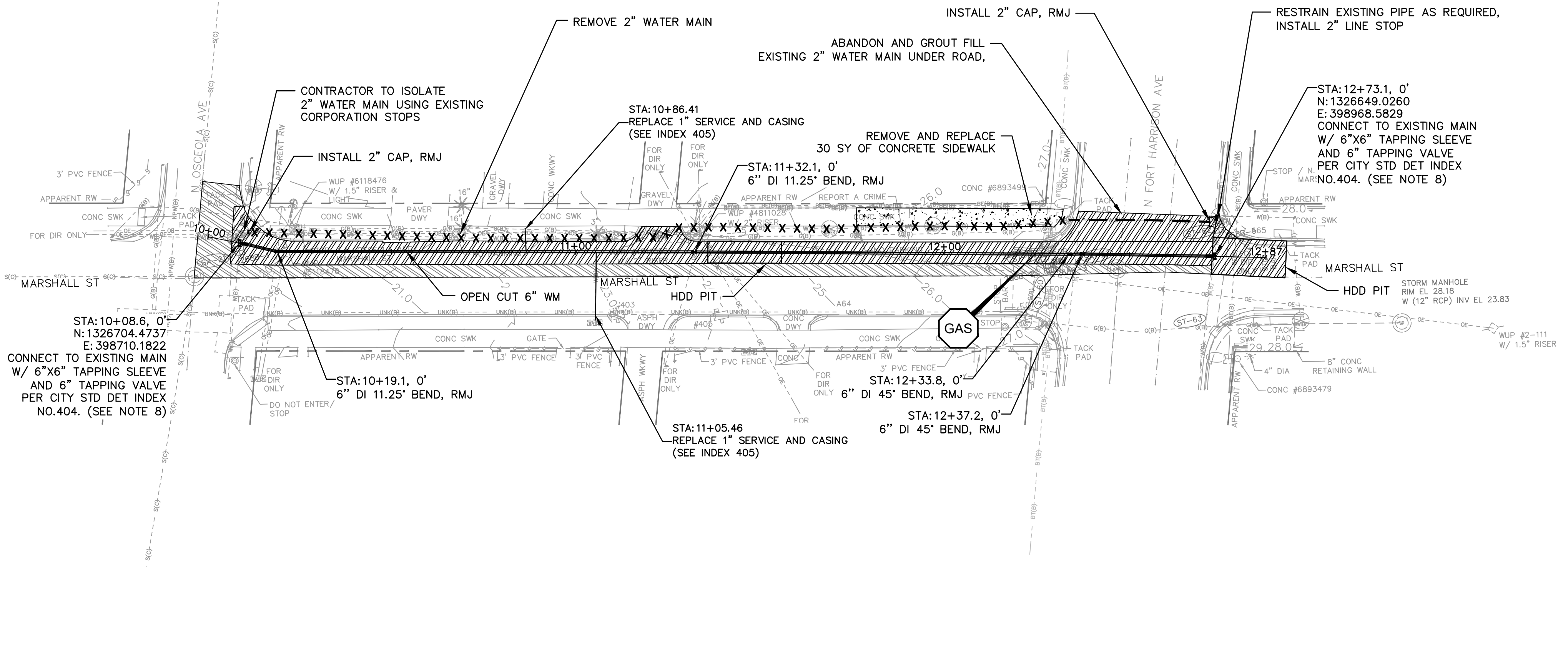
CITY OF CLEARWATER
 POTABLE WATER PIPING IMPROVEMENTS - PHASE 2&4&5
 AREA 252A - SUNSET POINT RD
 PLAN & PROFILE

DWG NO:	252A-C01	FIELD BOOK:	N/A	SURVEYED BY:	ECHO UES	SCALE:	VERT. AS NOTED
CONTRACT NO.:	18-0040-UT	DATE DRAWN:	06/2023	DRAWN BY:	VVV/PPH	HORIZ. AS NOTED	
JOB NO.:	072875	DESIGNED BY:	ESW/WTH	CHECKED BY:	JRV	SHEET NO.:	06 OF 64

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- GENERAL NOTES**
- MINIMUM SEPARATION BETWEEN PROPOSED WATER MAIN AND EXISTING GAS MAIN SHALL BE 3'.
 - DEFLECT PIPE AT JOINTS MAXIMUM 75% OF MANUFACTURERS ALLOWABLE DEFLECTION.
 - CONTRACTOR SHALL TEMPORARILY INSTALL AND MAINTAIN A TEMPORARY DRIVING SURFACE (ASPHALT MILLINGS, ETC.) WHEN REMOVING ANY DRIVEWAYS UNTIL THE DRIVEWAYS ARE PERMANENTLY RESTORED.
 - CONTRACTOR SHALL MAINTAIN ROADWAY ACCESS AT ALL TIMES.
 - INSTALL 1" RESIDENTIAL OR 2" COMMERCIAL SERVICE LINE AND PW METER BOX ADJACENT TO EACH EXISTING WATER METER/PARCEL (5' MIN SEPARATION), ON BOTH SIDES OF ROW WITH SHORT SERVICES AND LONG SERVICES WITH CASINGS, IN ACCORDANCE WITH CITY INDEX DETAILS. FOR NEW SERVICES, CONTRACTOR TO CONFIRM LOCATION AND PLACEMENT OF SERVICE METER BOXES WITH CITY INSPECTOR AND/OR CITY'S REPRESENTATIVE.
 - CONTRACTOR SHALL VERIFY LOCATION, MATERIAL, AND DEPTH OF EXISTING INFRASTRUCTURE PRIOR TO CONSTRUCTION.
 - CONTRACTOR SHALL MAINTAIN WATER SERVICE AT ALL TIMES TO CUSTOMERS. ANY INTERRUPTIONS SHALL BE COORDINATED WITH THE CITY WITH MINIMUM 10 DAY NOTICE.
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- - - - -	GROUT AND ABANDON EXISTING PIPING
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NOTE: PATTERN ROTATIONS MAY DIFFER FROM LEGEND IN PLAN VIEW. PLEASE SEE QUANTITY TAKEOFF TABLE IN GENERAL DRAWINGS.

RECORD DRAWINGS	
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REVIEWED BY:	PROJECT ENGINEER
DATE	DATE
APPROVED BY:	DATE

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 CLEARWATER, FL 33756

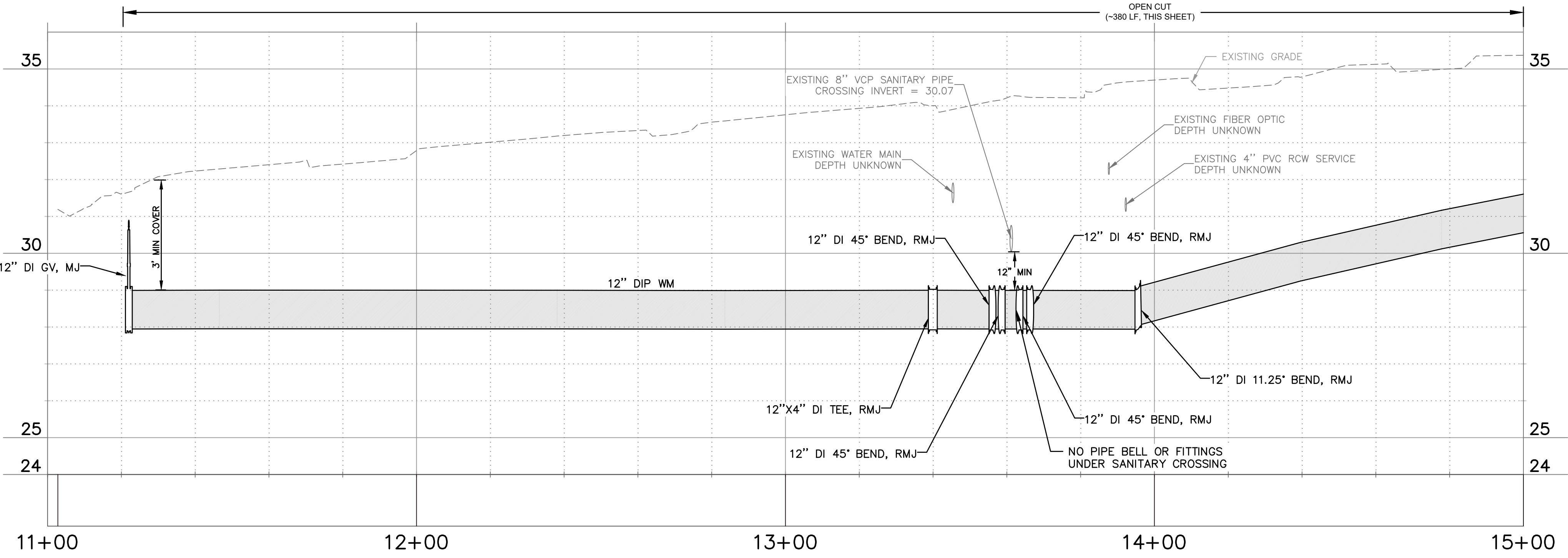
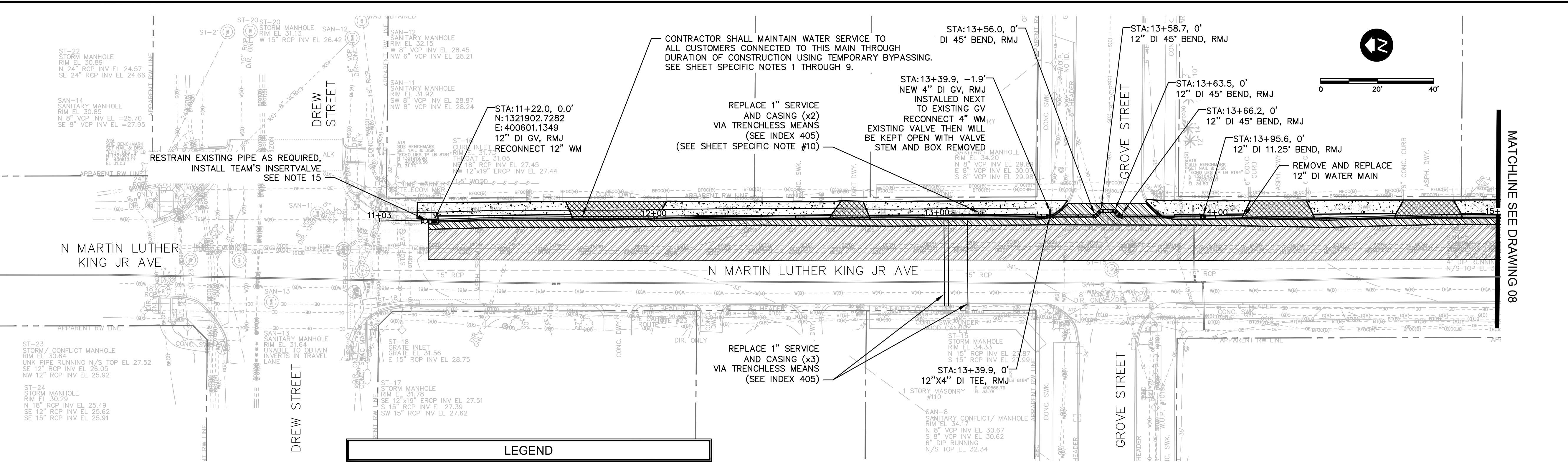


CITY OF CLEARWATER
POTABLE WATER PIPING IMPROVEMENTS - PHASE 2&4&5
 AREA 268B - MARSHALL ST
 PLAN & PROFILE

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CONTRACT NO.:	DATE DRAWN:	DRAWN BY:	HORIZ. AS NOTED
18-0040-UT	06/2023	VVV/PPH	
JOB NO.:	DESIGNED BY:	CHECKED BY:	SHEET NO.:
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- GENERAL NOTES**
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- SHEET SPECIFIC NOTES**
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 - THE CONTRACTOR SHALL SUBMIT A TEMPORARY BYPASSING PLAN IDENTIFYING THE PROPOSED LOCATIONS OF TEMPORARY TAPS FOR BYPASSING, VALVING, PLACEMENT OF BYPASSING DRIVEWAY SURFACES, AND CUSTOMER CONNECTIONS. TEMPORARY BYPASSING SHALL CONSIST OF A MINIMUM OF A 2-INCH DIAMETER WATER MAIN.
 - TEMPORARY BYPASSING FOR SERVICE CONNECTIONS SHALL BE LIMITED.
 - CONNECTIONS TO EXISTING WATER MAINS SHALL BE DONE IN A TIMELY MANNER. AT NO TIME SHALL THE FLOW OF WATER RUNNING THE LENGTH OF THE PROJECT BE STOPPED EXCEPT TO RECONNECT TO WATER MAINS THAT HAVE BEEN TESTED AND CLEARED FOR POTABLE WATER USE. THE CONTRACTOR SHALL COORDINATE WITH THE CITY TO FACILITATE THESE CONNECTIONS.
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 - FOR TIE INS WHERE SERVICE MAY BE TEMPORARILY INTERRUPTED, THE CONTRACTOR MUST HAVE PRE-ASSEMBLED ALL NEW PIPING EXCEPT AT THE POINT OF THE TIE-IN INCLUDING SERVICE LINES BEING TRANSFERRED TO THE NEW MAIN. THE ENTIRE PRE-ASSEMBLY SHALL BE SUCCESSFULLY PRESSURE TESTED AND BACTERIOLOGICAL TESTED PRIOR TO THE SHUTDOWN. THE CONTRACTOR SHALL HAVE SUFFICIENT CREWS ON SITE TO ACCOMPLISH THE SHUTDOWN IN LESS THAN FOUR (4) HOURS.
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 - THE CONTRACTOR SHALL CONFIRM WHICH MAIN THE EXISTING SERVICES LINES ARE CONNECTED TO AND ONLY REPLACE THE SERVICE LINES THAT ARE CONNECTED TO THE REPLACEMENT MAIN.

RECORD DRAWINGS	
SURVEYED BY:	DRAWN BY:
REVIEWED BY:	PROJECT ENGINEER
APPROVED BY:	DATE

REVISION	
0: ISSUED FOR BID	VVV 06/2023
BY	DATE

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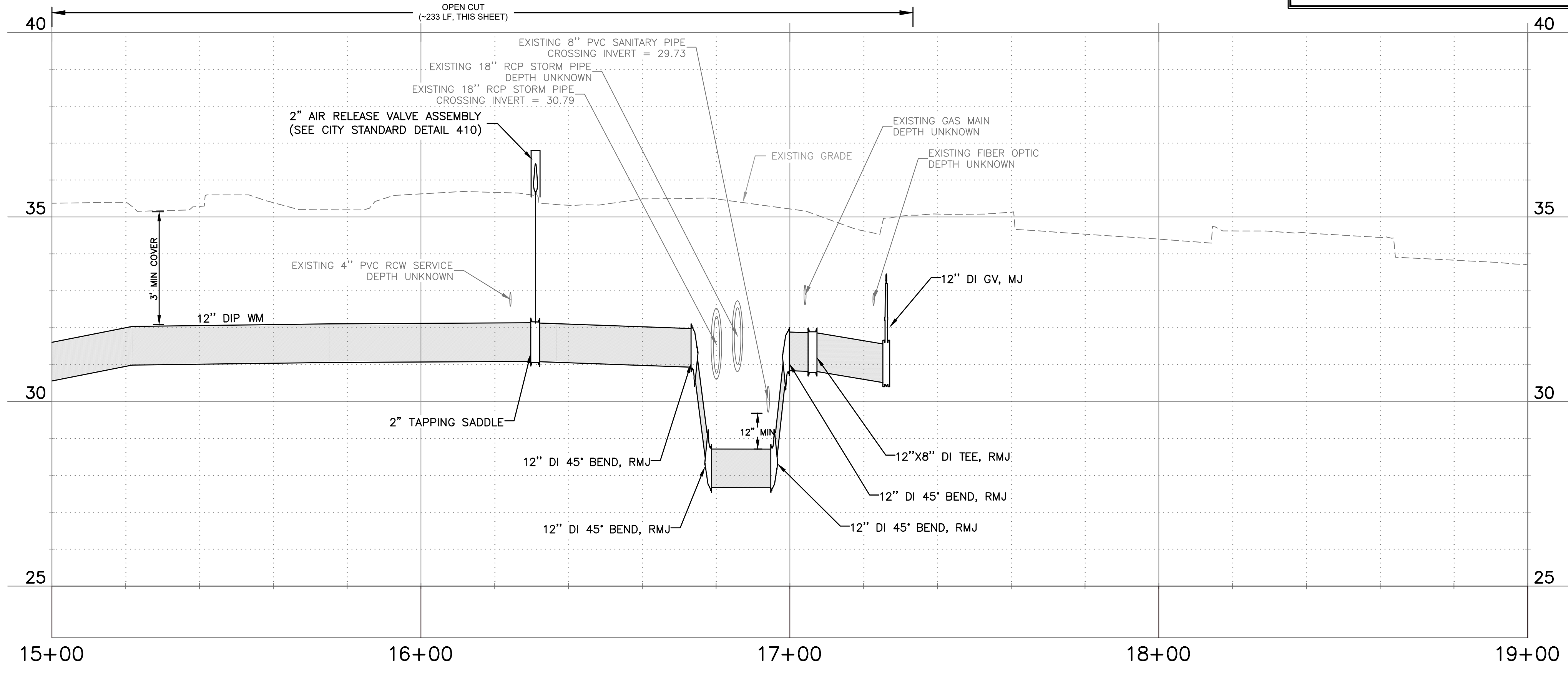
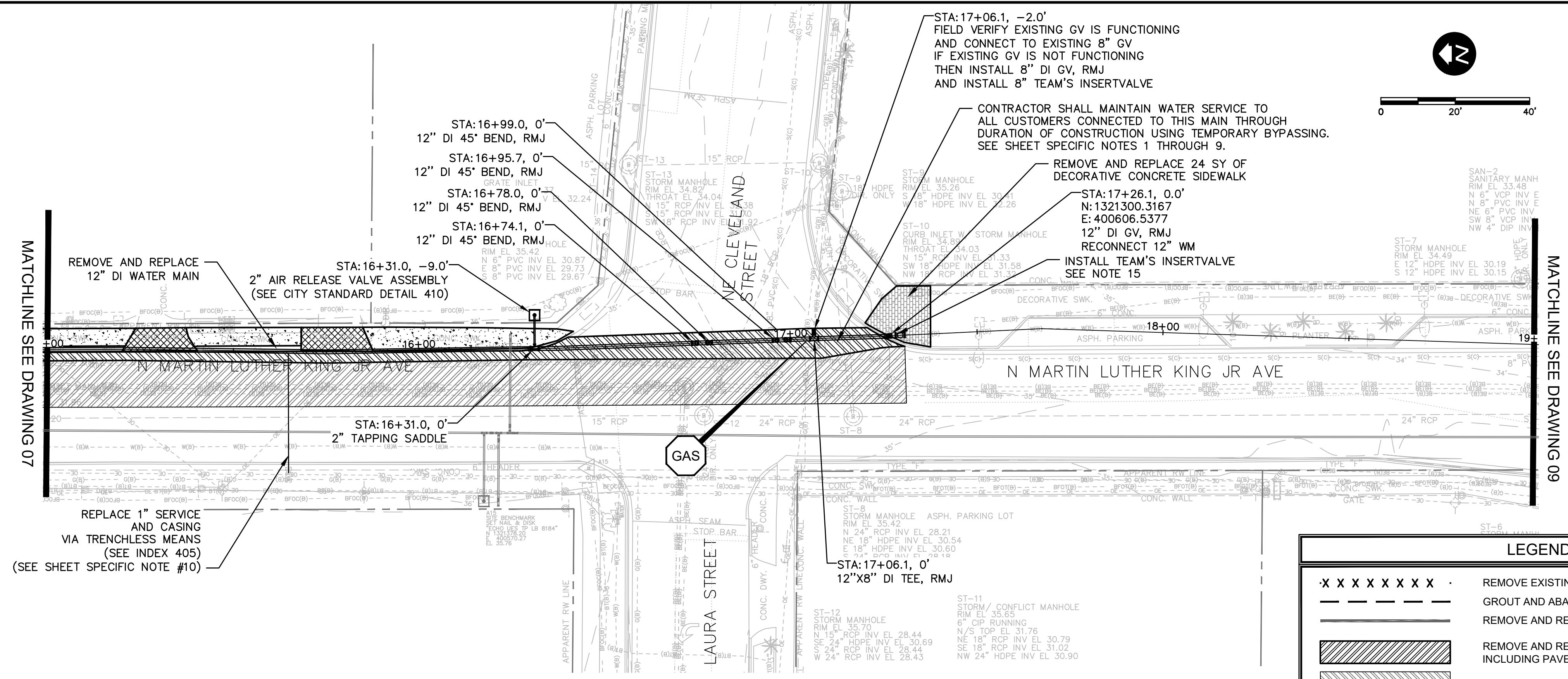


CITY OF CLEARWATER
POTABLE WATER PIPING IMPROVEMENTS - PHASE 2&4&5
 AREA 287A - S MARTIN LUTHER KING JR AVE
 PLAN & PROFILE

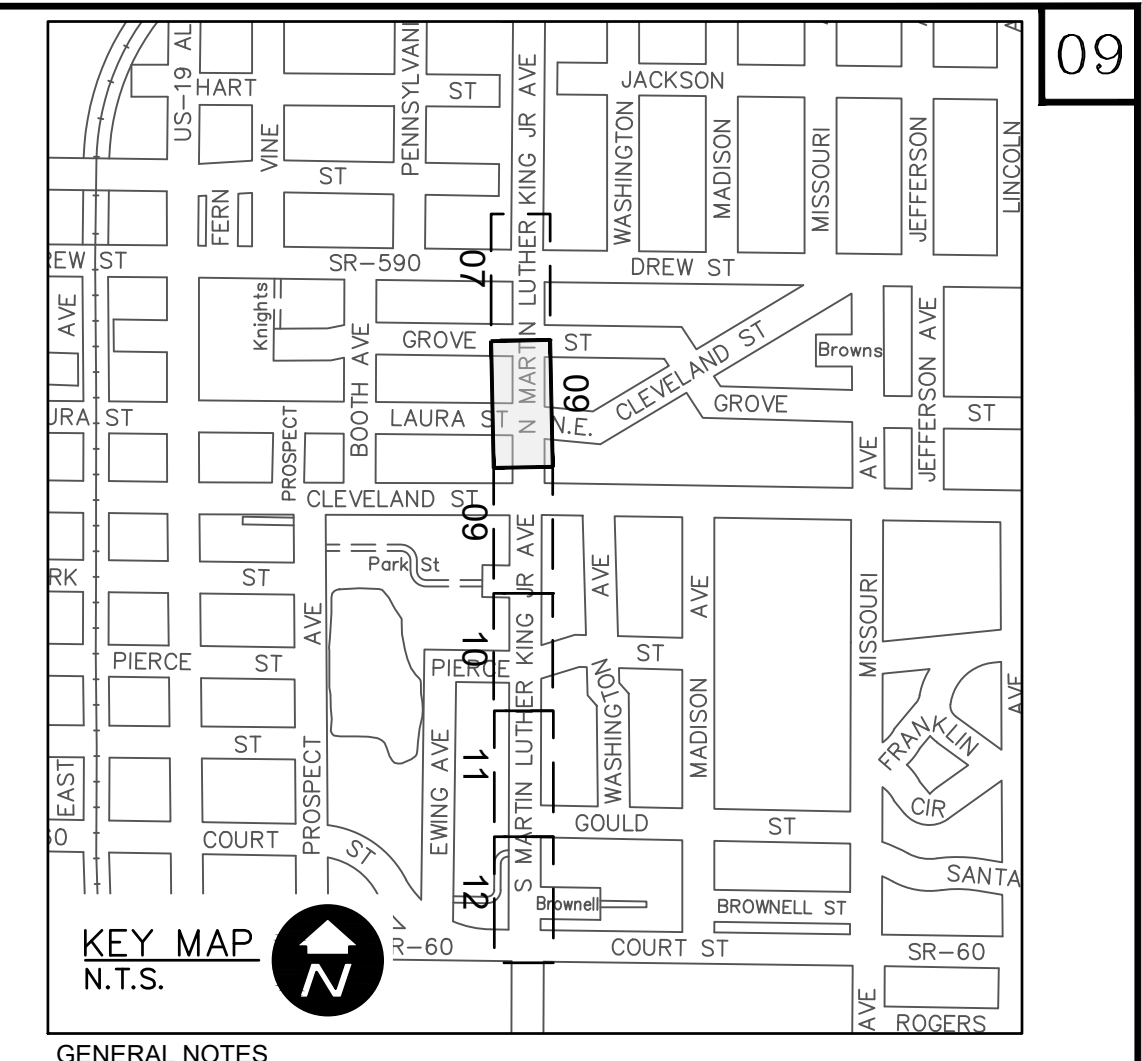
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CONTRACT NO.:	18-0040-UT	DATE DRAWN:	06/2023	DRAWN BY:	VVV/PH	HORIZ. AS NOTED	
JOB NO.:	072875	DESIGNED BY:	ESW/WTH	CHECKED BY:	JRV	SHEET NO.:	08 OF 64

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LEGEND	
- X X X X X X X X -	REMOVE EXISTING PIPING
- - - - -	GROUT AND ABANDON EXISTING PIPING
- - - - -	REMOVE AND REPLACE CONCRETE CURB AND GUTTER
[Hatched Pattern]	REMOVE AND REPLACE ASPHALT PAVEMENT, INCLUDING PAVEMENT MARKINGS
[Diagonal Line Pattern]	MILL AND OVERLAY ASPHALT PAVEMENT
[Cross-hatch Pattern]	REMOVE AND REPLACE CONCRETE DRIVEWAY
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NOTE: PATTERN ROTATIONS MAY DIFFER FROM LEGEND IN PLAN VIEW. PLEASE SEE QUANTITY TAKEOFF TABLE IN GENERAL DRAWINGS.	



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REVIEWED BY:	PROJECT ENGINEER
DATE:	DATE:
APPROVED BY:	DATE:

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PUBLIC WORKS DEPARTMENT -
ENGINEERING**
100 S. MYRTLE AVE.
CLEARWATER, FL 33756

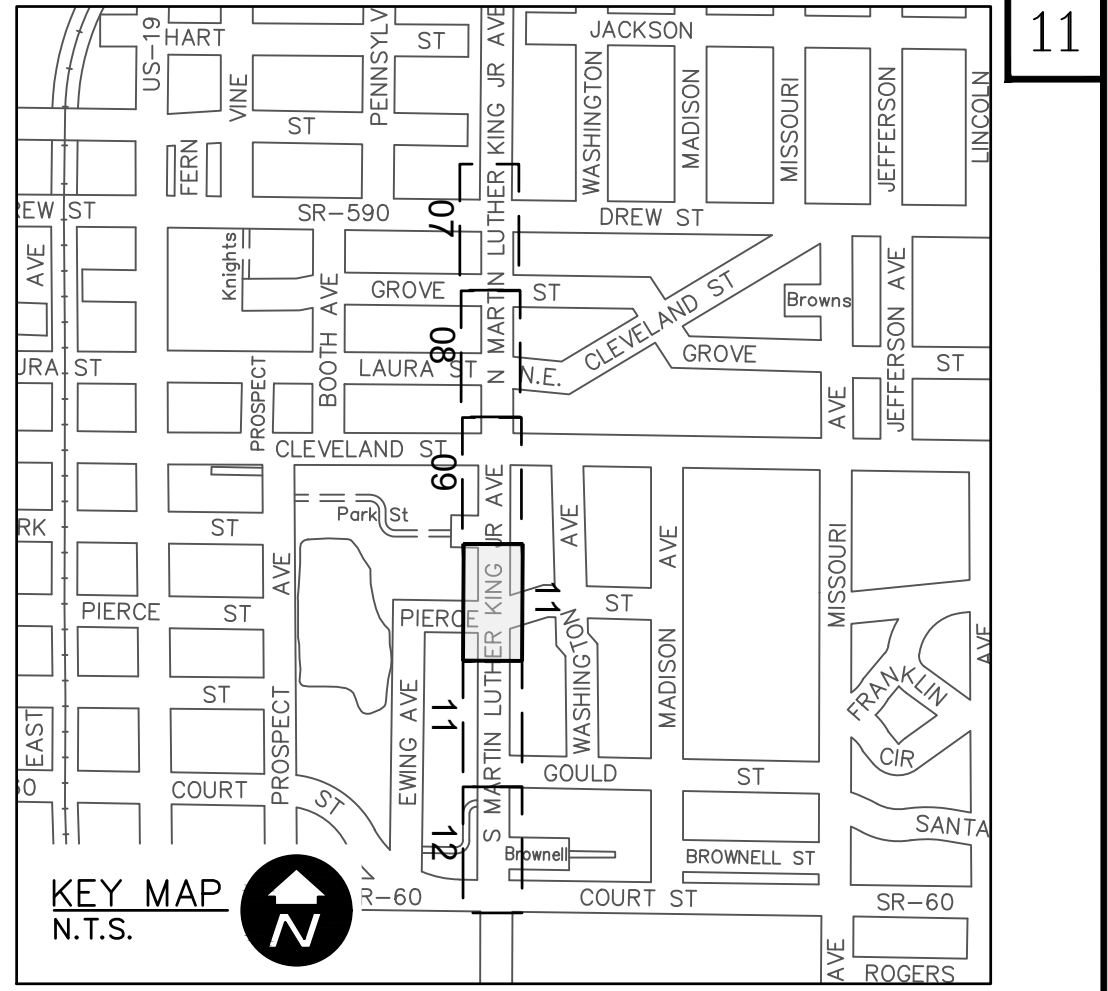
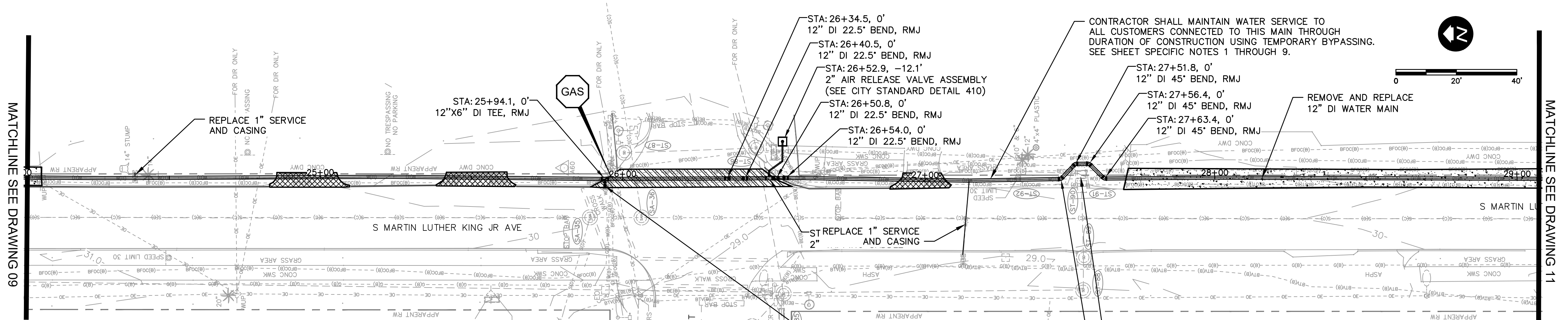


CITY OF CLEARWATER
POTABLE WATER PIPING IMPROVEMENTS - PHASE 2&4&5
AREA 287A - S MARTIN LUTHER KING JR AVE
PLAN & PROFILE

DWG NO:	287A-C02	FIELD BOOK:	N/A	SURVEYED BY:	ECHO UES	SCALE:	VERT. AS NOTED
CONTRACT NO.:	18-0040-UT	DATE DRAWN:	06/2023	DRAWN BY:	VVV/PH	HORIZ. AS NOTED	
JOB NO.:	072875	DESIGNED BY:	ESW/WTH	CHECKED BY:	JRV	SHEET NO.:	09 OF 64

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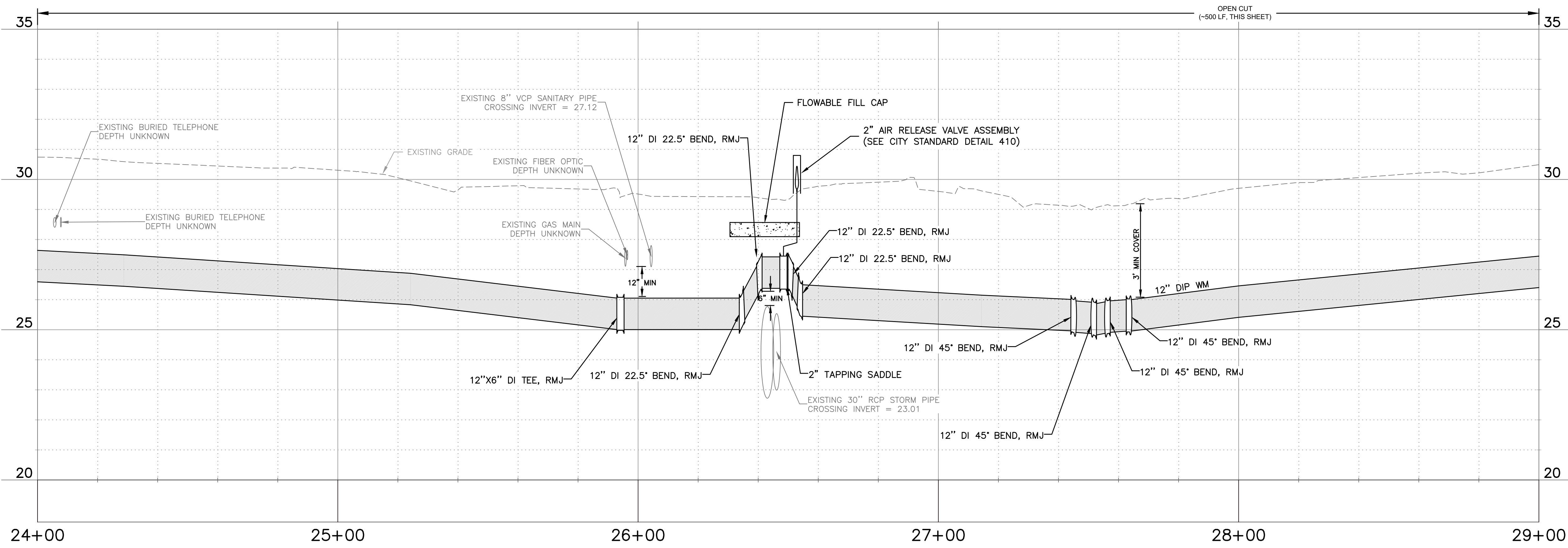


LEGEND	
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[Diagonal Hatched Pattern]	MILL AND OVERLAY ASPHALT PAVEMENT
[Cross-hatched Pattern]	REMOVE AND REPLACE CONCRETE DRIVEWAY
[Stippled Pattern]	REMOVE AND REPLACE CONCRETE SIDEWALK

NOTE: PATTERN ROTATIONS MAY DIFFER FROM LEGEND IN PLAN VIEW. PLEASE SEE QUANTITY TAKEOFF TABLE IN GENERAL DRAWINGS.

- GENERAL NOTES**
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 - DEFLECT PIPE AT JOINTS MAXIMUM 75% OF MANUFACTURERS ALLOWABLE DEFLECTION.
 - CONTRACTOR SHALL TEMPORARILY INSTALL AND MAINTAIN A TEMPORARY DRIVING SURFACE ASPHALT MILLINGS, ETC.) WHEN REMOVING ANY DRIVEWAYS UNTIL THE DRIVEWAYS ARE PERMANENTLY RESTORED.
 - CONTRACTOR SHALL MAINTAIN ROADWAY ACCESS AT ALL TIMES.
 - INSTALL 1" RESIDENTIAL OR 2" COMMERCIAL SERVICE LINE AND PW METER BOX ADJACENT TO EACH EXISTING WATER METER PARCEL (5 MIN SEPARATION), ON BOTH SIDES OF ROW WITH SHORT SERVICES AND LONG SERVICES WITH CASINGS, IN ACCORDANCE WITH CITY INDEX DETAILS. FOR NEW SERVICES, CONTRACTOR TO CONFIRM LOCATION AND PLACEMENT OF SERVICE METER BOXES WITH CITY INSPECTOR AND/OR CITY'S REPRESENTATIVE.
 - CONTRACTOR SHALL VERIFY LOCATION, MATERIAL, AND DEPTH OF EXISTING INFRASTRUCTURE PRIOR TO CONSTRUCTION.
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 - CONTRACTOR SHALL ADJUST ALL WATER METER(S) TO CURRENT GRADE.
 - CONTRACTOR SHALL RESTRAIN EXISTING MAINS AS NECESSARY IN ACCORDANCE WITH CITY STANDARD DETAIL 407. WHERE INSTALLATION OF RESTRAINTS MAY REQUIRE EXCAVATION OF ROADWAY, CONTRACTOR SHALL COORDINATE WITH CITY AND CITY'S REPRESENTATIVE TO CONFIRM RESTRAINING PRIOR TO INSTALLATION.
 - CONTRACTOR SHALL HAVE FIELD MEETING WITH THE CITY AND/OR RPR INSPECTOR PRIOR TO INSTALLATION OF ANY TEAM'S INSERT VALVE, TO CONFIRM IF EXISTING VALVES MAY ISOLATE THE MAIN IN LIEU OF A TEAM'S INSERT VALVE.
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- SHEET SPECIFIC NOTES**
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 - THE CONTRACTOR SHALL SUBMIT A TEMPORARY BYPASSING PLAN IDENTIFYING THE PROPOSED LOCATIONS OF TEMPORARY TAPS FOR BYPASSING, VALVING, PLACEMENT OF BYPASSING DRIVEWAY SURFACES, AND CUSTOMER CONNECTIONS. TEMPORARY BYPASSING SHALL CONSIST OF A MINIMUM OF A 2-INCH DIAMETER WATER MAIN.
 - TEMPORARY BYPASSING FOR SERVICE CONNECTIONS SHALL BE LIMITED.
 - CONNECTIONS TO EXISTING WATER MAINS SHALL BE DONE IN A TIMELY MANNER. AT NO TIME SHALL THE FLOW OF WATER RUNNING THE LENGTH OF THE PROJECT BE STOPPED EXCEPT TO RECONNECT TO WATER MAINS THAT HAVE BEEN TESTED AND CLEARED FOR POTABLE WATER USE. THE CONTRACTOR SHALL COORDINATE WITH THE CITY TO FACILITATE THESE CONNECTIONS.
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REVIEWED BY:	PROJECT ENGINEER
DATE	DATE
APPROVED BY:	DATE

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BY	DATE

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PUBLIC WORKS DEPARTMENT -
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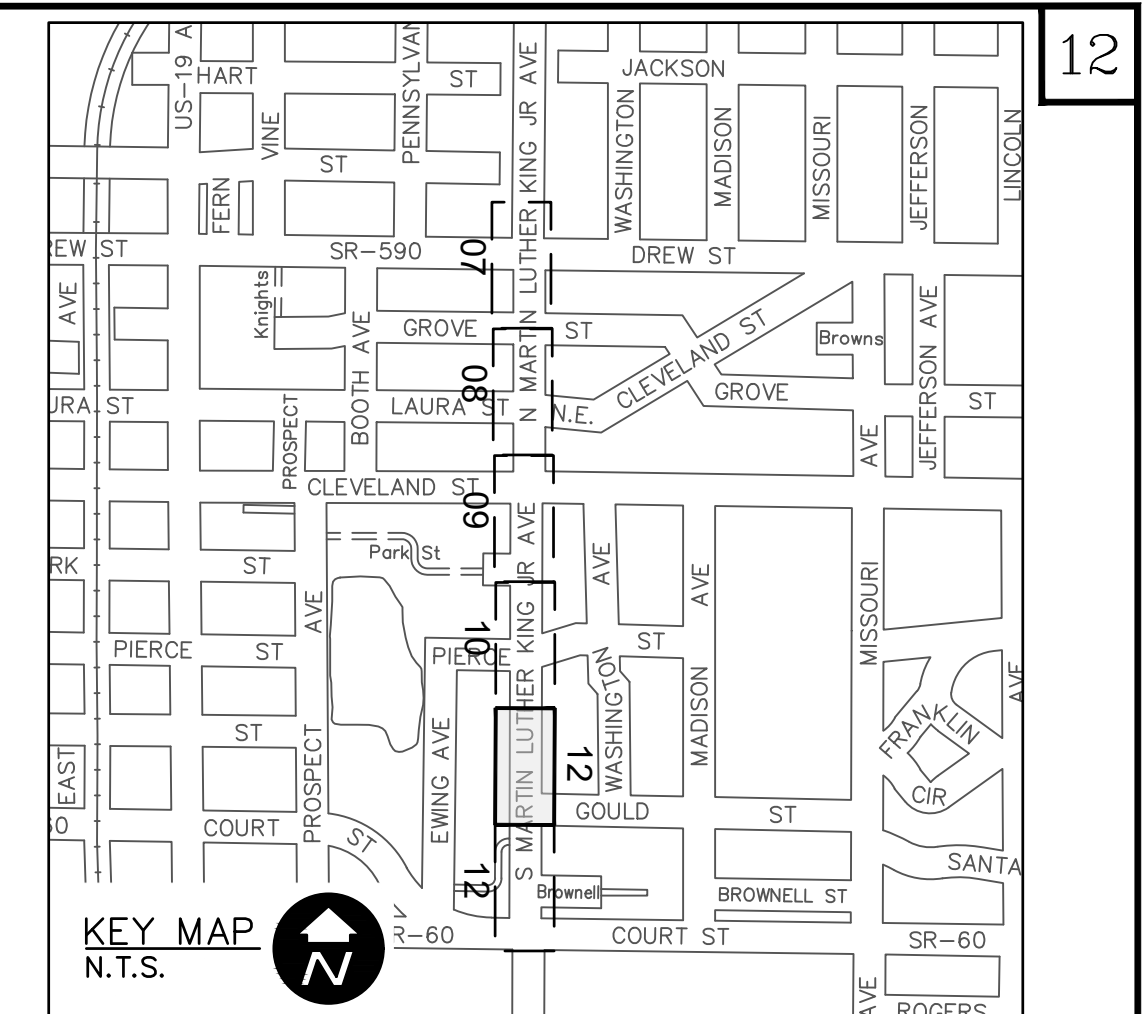
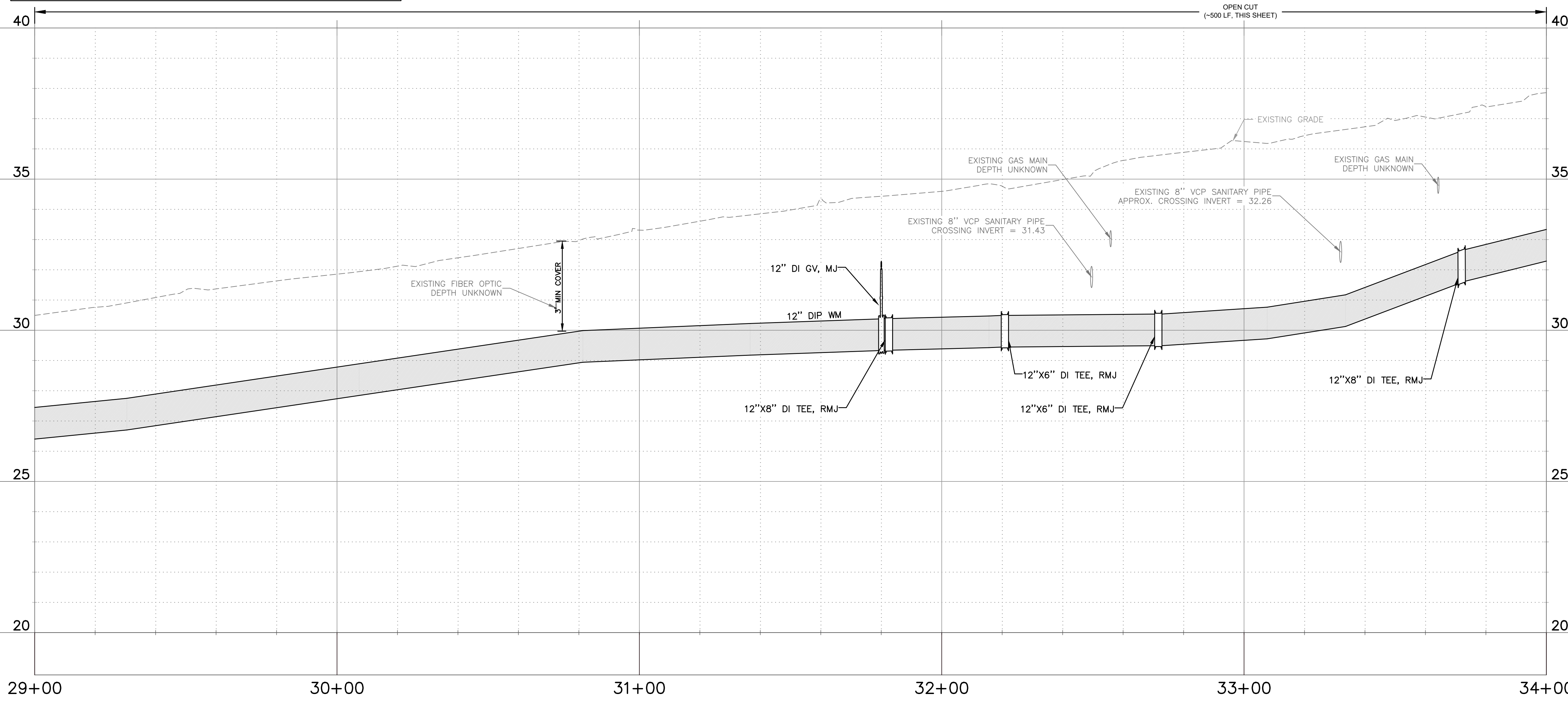
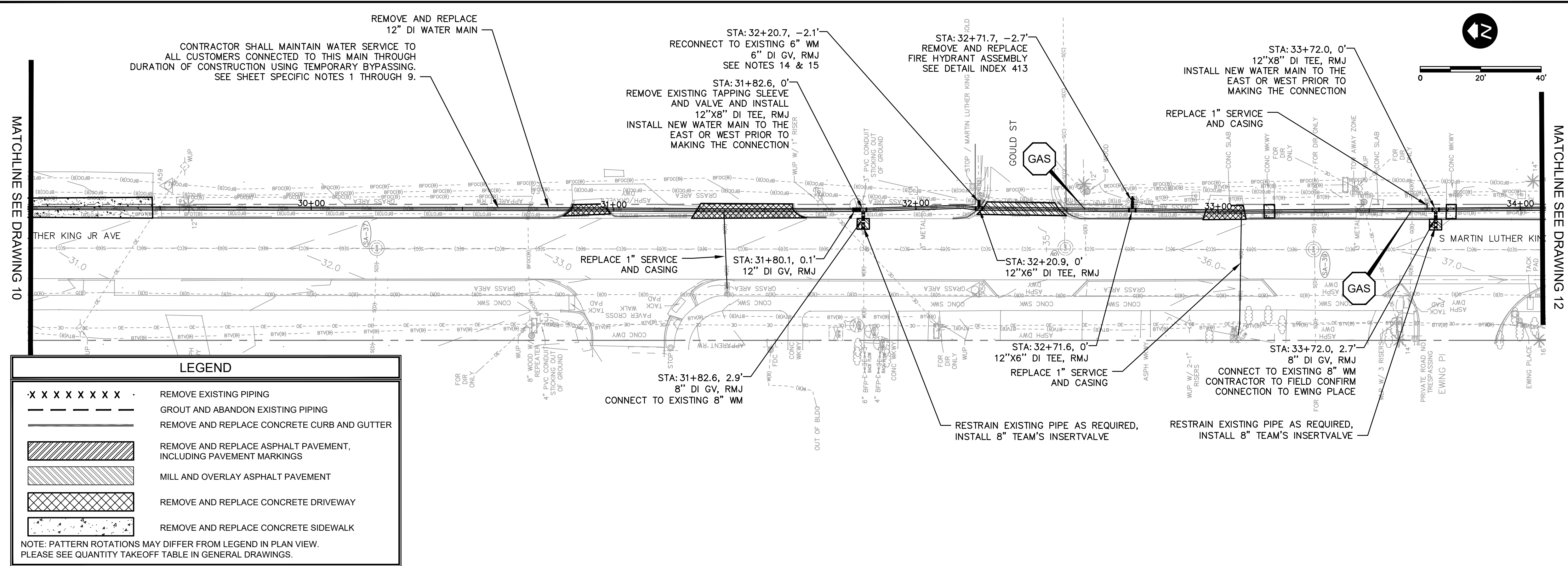
CITY OF CLEARWATER
POTABLE WATER PIPING IMPROVEMENTS - PHASE 2&4&5
 AREA 287A - S MARTIN LUTHER KING JR AVE
 PLAN & PROFILE

CHA CONSULTING, INC.
 3507 EAST FRONTAGE ROAD SUITE 100
 TAMPA, FL 33607
 TEL: (813) 549-0919
 CERTIFICATE OF AUTHORIZATION #23836

DWG NO:	287A-C04	FIELD BOOK:	N/A	SURVEYED BY:	ECHO UES	SCALE:	VERT. AS NOTED
CONTRACT NO.:	18-0040-UT	DATE DRAWN:	06/2023	DRAWN BY:	VVV/PH	HORIZ. AS NOTED	
JOB NO.:	072875	DESIGNED BY:	ESW/WTH	CHECKED BY:	JRV	SHEET NO.:	11 OF 64

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LEGEND

- X X X X X X X -	REMOVE EXISTING PIPING
- - - - -	GROUT AND ABANDON EXISTING PIPING
- - - - -	REMOVE AND REPLACE CONCRETE CURB AND GUTTER
▨	REMOVE AND REPLACE ASPHALT PAVEMENT, INCLUDING PAVEMENT MARKINGS
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NOTE: PATTERN ROTATIONS MAY DIFFER FROM LEGEND IN PLAN VIEW. PLEASE SEE QUANTITY TAKEOFF TABLE IN GENERAL DRAWINGS.

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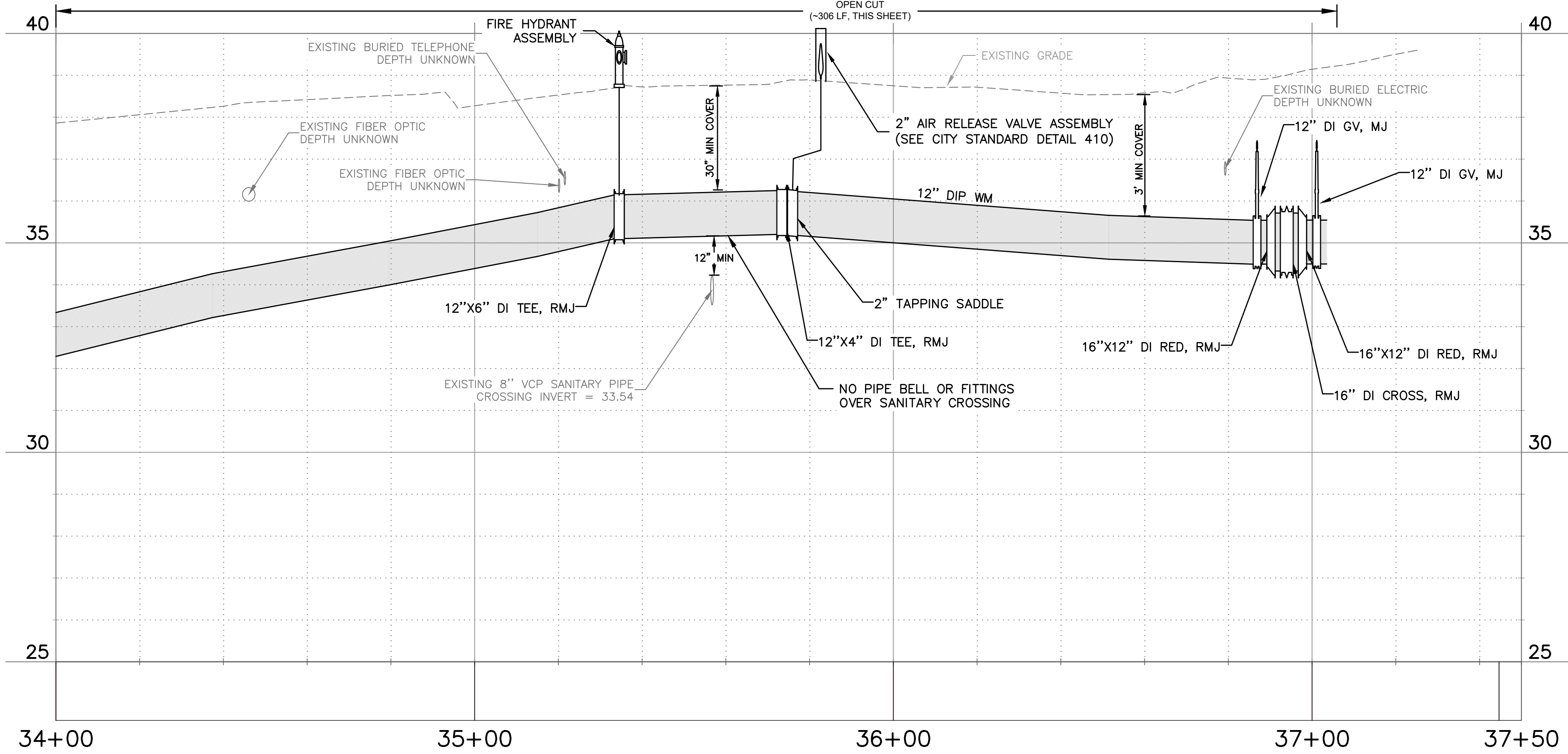
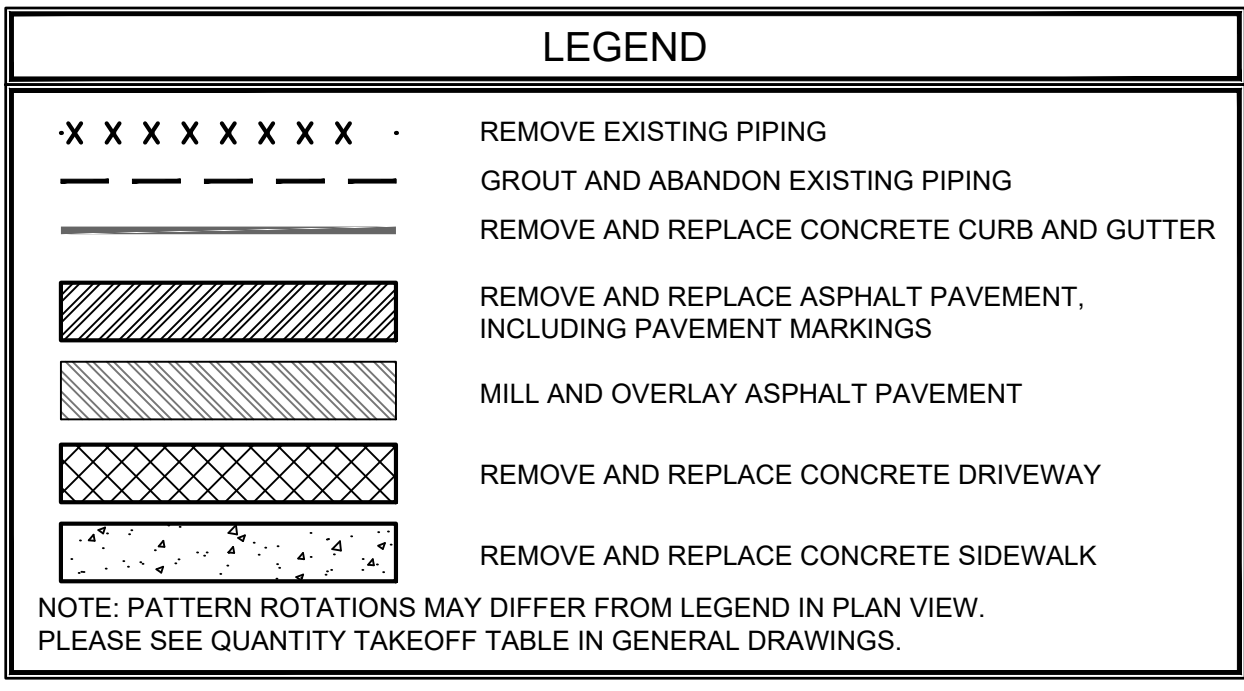
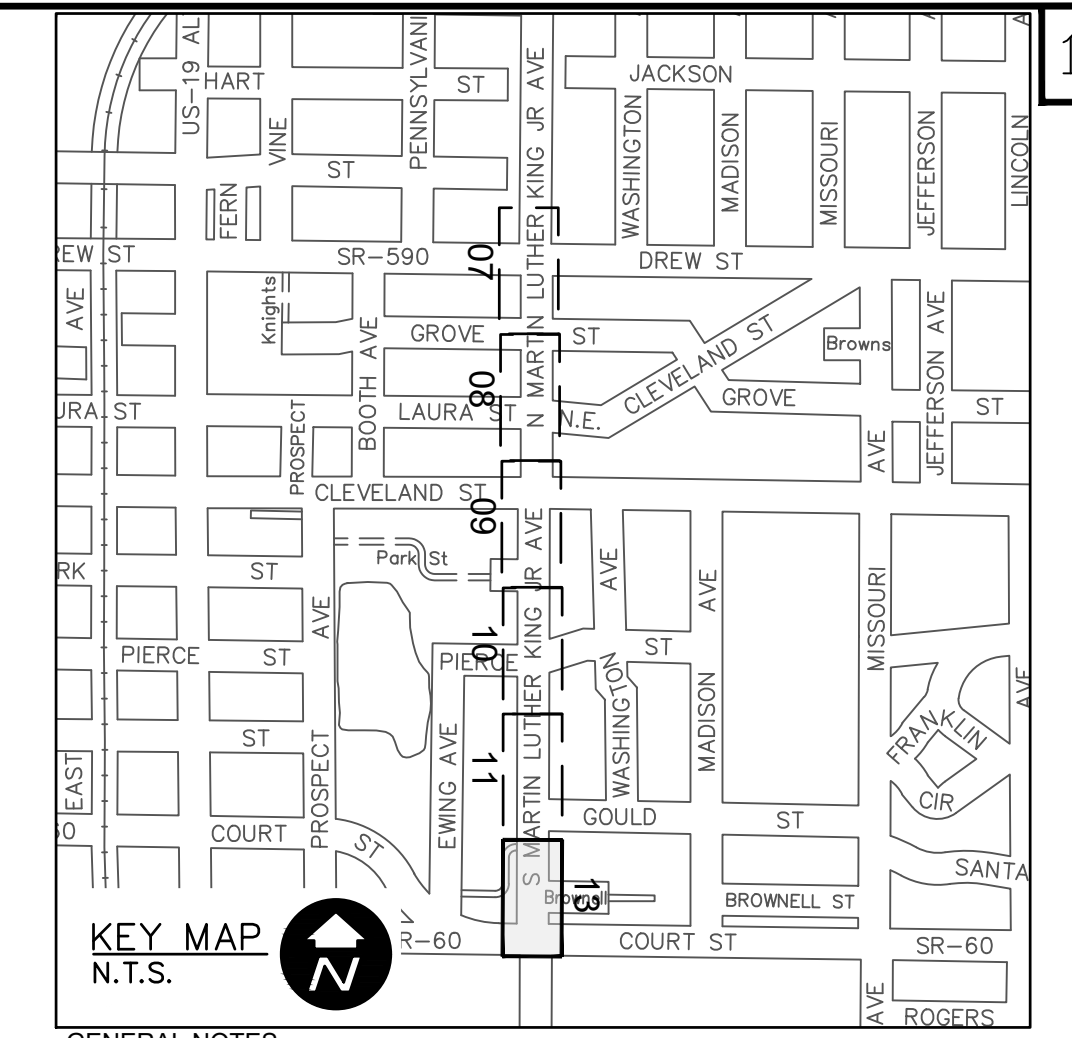
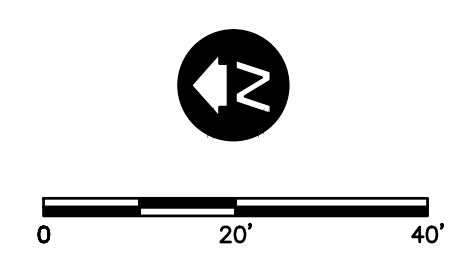
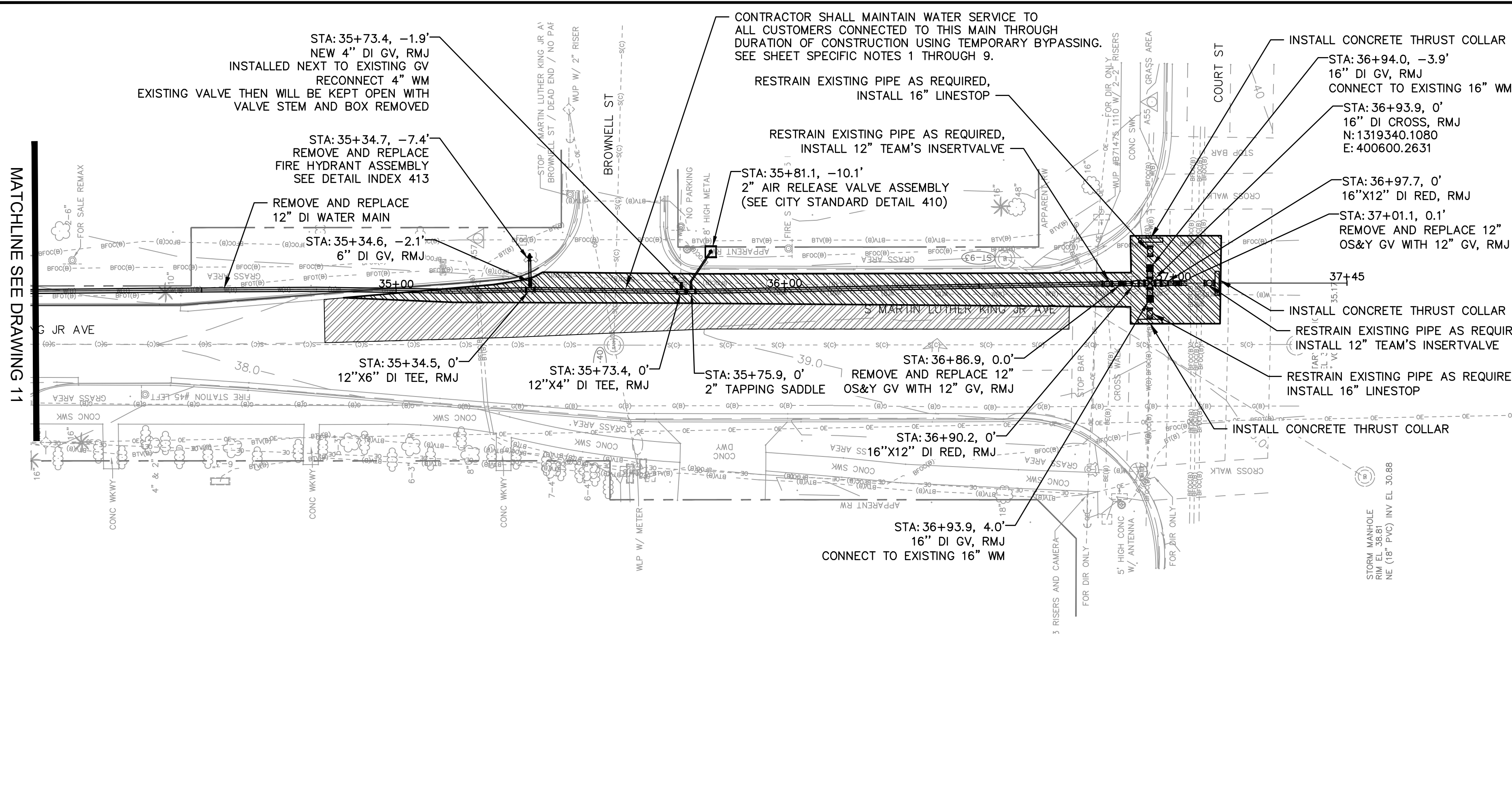


**CITY OF CLEARWATER
 POTABLE WATER PIPING IMPROVEMENTS - PHASE 2&4&5
 AREA 287A - S MARTIN LUTHER KING JR AVE
 PLAN & PROFILE**

DWG NO:	287A-C05	FIELD BOOK:	N/A	SURVEYED BY:	ECHO UES	SCALE:	VERT. AS NOTED
CONTRACT NO.:	18-0040-UT	DATE DRAWN:	06/2023	DRAWN BY:	VVV/PH	HORIZ. AS NOTED	
JOB NO.:	072875	DESIGNED BY:	ESW/WTH	CHECKED BY:	JRV	SHEET NO.:	12 OF 64

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 CLEARWATER, FL 33756



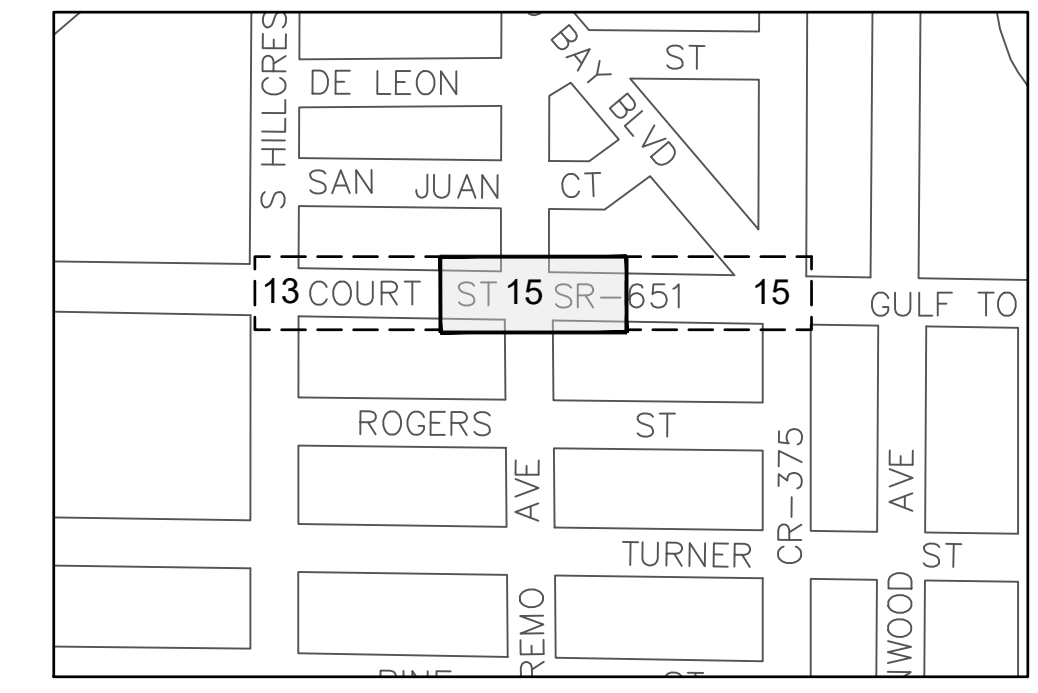
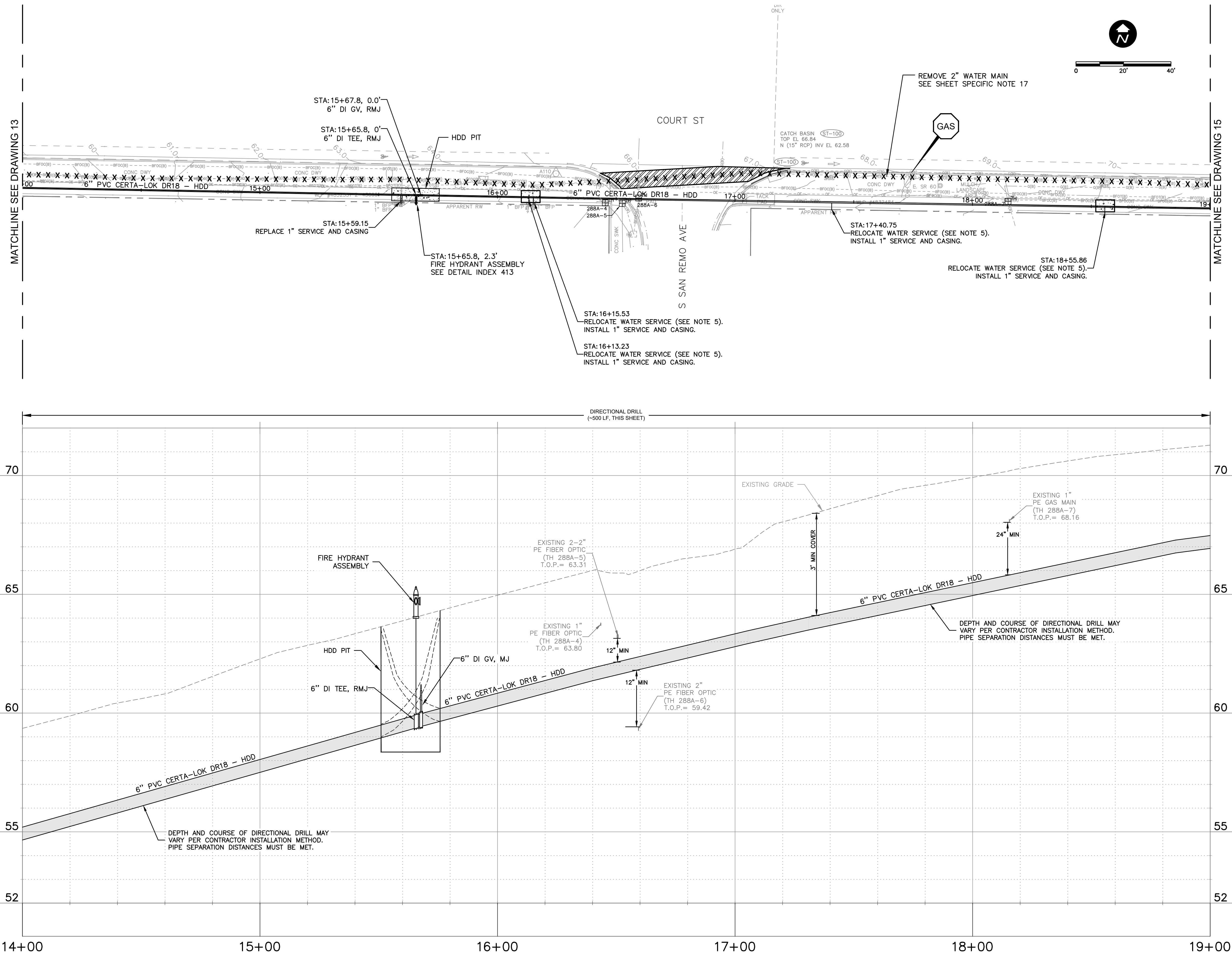
CITY OF CLEARWATER
 POTABLE WATER PIPING IMPROVEMENTS - PHASE 2&4&5
 AREA 287A - S MARTIN LUTHER KING JR AVE
 PLAN & PROFILE

DWG NO:	287A-C06	FIELD BOOK:	N/A	SURVEYED BY:	ECHO UES	SCALE:	VERT. AS NOTED
CONTRACT NO.:	18-0040-UT	DATE DRAWN:	06/2023	DRAWN BY:	VVV/PH	HORIZ. AS NOTED	
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CHA CONSULTING, INC.
 3507 EAST FRONTAGE ROAD SUITE 100
 TAMPA, FL 33607
 TEL: (813) 549-8919
 CERTIFICATE OF AUTHORIZATION #28386

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LEGEND

- X X X X X X X X - REMOVE EXISTING PIPING
- GROUT AND ABANDON EXISTING PIPING
- REMOVE AND REPLACE CONCRETE CURB AND GUTTER
- ▨ REMOVE AND REPLACE ASPHALT PAVEMENT, INCLUDING PAVEMENT MARKINGS
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 4. CONTRACTOR SHALL MAINTAIN ROADWAY ACCESS AT ALL TIMES.
 5. INSTALL 1" RESIDENTIAL OR 2" COMMERCIAL SERVICE LINE AND PW METER BOX ADJACENT TO EACH EXISTING WATER METER/PARCEL (5' MIN SEPARATION), ON BOTH SIDES OF ROW WITH SHORT SERVICES AND LONG SERVICES WITH CASINGS, IN ACCORDANCE WITH CITY INDEX DETAILS. FOR NEW SERVICES, CONTRACTOR TO CONFIRM LOCATION AND PLACEMENT OF SERVICE METER BOXES WITH CITY INSPECTOR AND/OR CITY'S REPRESENTATIVE.
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 16. CONTRACTOR SHALL HAVE OR USE A CERTIFIED PLUMBING CONTRACTOR TO INSTALL THE CUSTOMER SIDE SERVICES AND SHALL OBTAIN CITY PLUMBING PERMITS.

- SHEET SPECIFIC NOTES**
16. CONTRACTOR TO ADD CONTROLLED FRAC OUT LOCATIONS ALONG THE SHALLOW PVC CERTA-LOK HDDS. DURING INSTALLATION. CONTRACTOR SHALL MAINTAIN, CONTROL AND DISPOSE OF ALL DRILLING FLUID.
 17. CONTRACTOR SHALL NOT REMOVE THE EXISTING 2" WATER MAIN UNTIL THE NEW WATER MAIN IS INSTALLED, TESTED, AND ACCEPTED BY THE CITY. THIS INCLUDES ANY PRESSURE TESTING, BACTERIOLOGICAL TESTING, FDEP CLEARANCE, AND RECONNECTION OF CUSTOMERS

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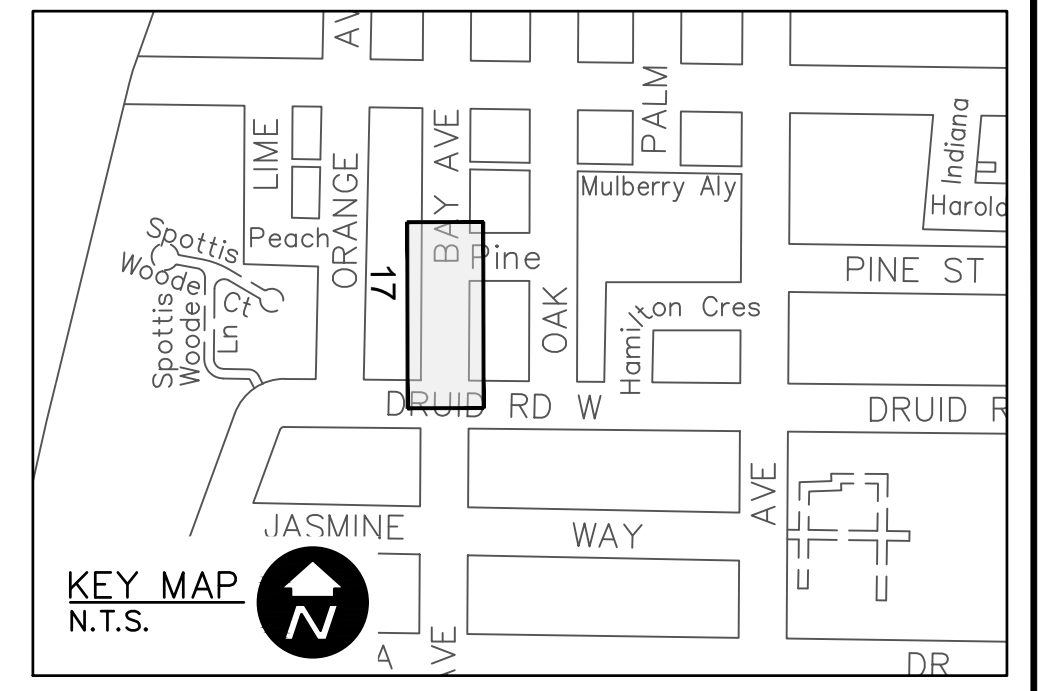
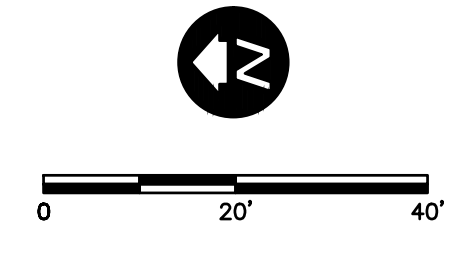
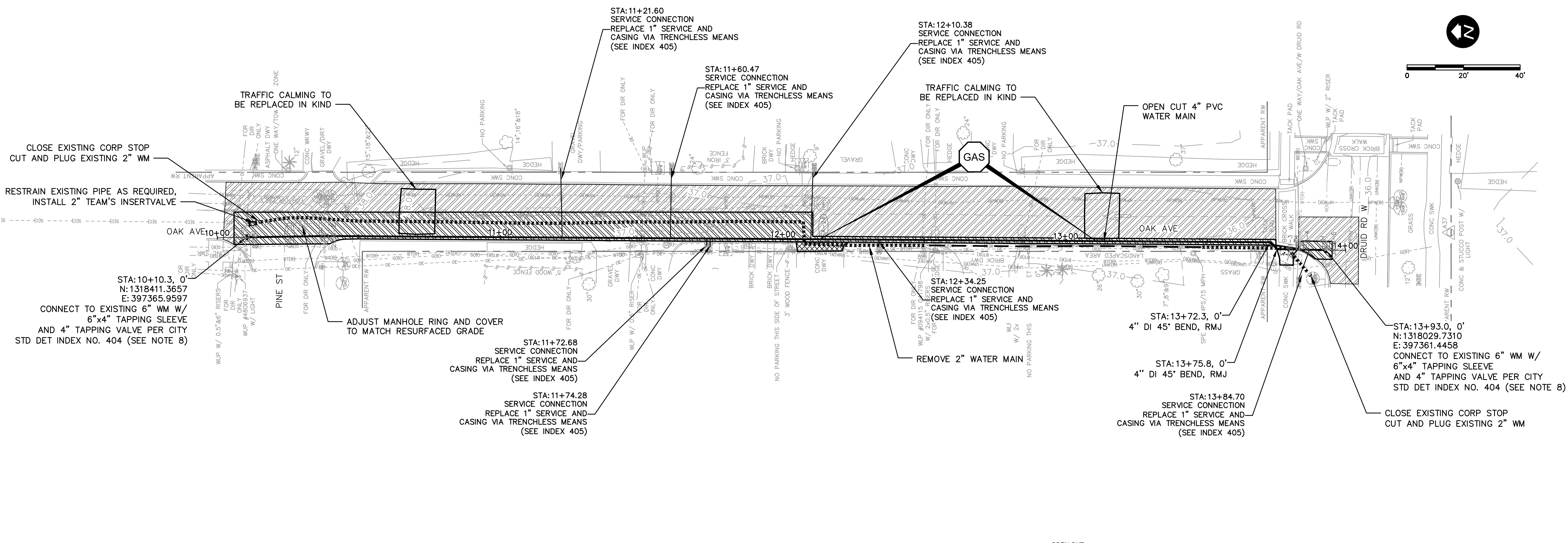
CITY OF CLEARWATER
POTABLE WATER PIPING IMPROVEMENTS - PHASE 2&4&5
AREA 288A - COURT ST
PLAN & PROFILE

DWG NAME: 288A-C02	FIELD BOOK: N/A	SURVEYED BY: ECHO UES	SCALE: VERT. AS NOTED
CONTRACT NO.: 18-0040-UT	DATE DRAWN: 06/2023	DRAWN BY: VVV/PPH	HORIZ. AS NOTED
JOB NO.: 072875	DESIGNED BY: ESW/WTH	CHECKED BY: JRV	SHEET NO.: 15 OF 64

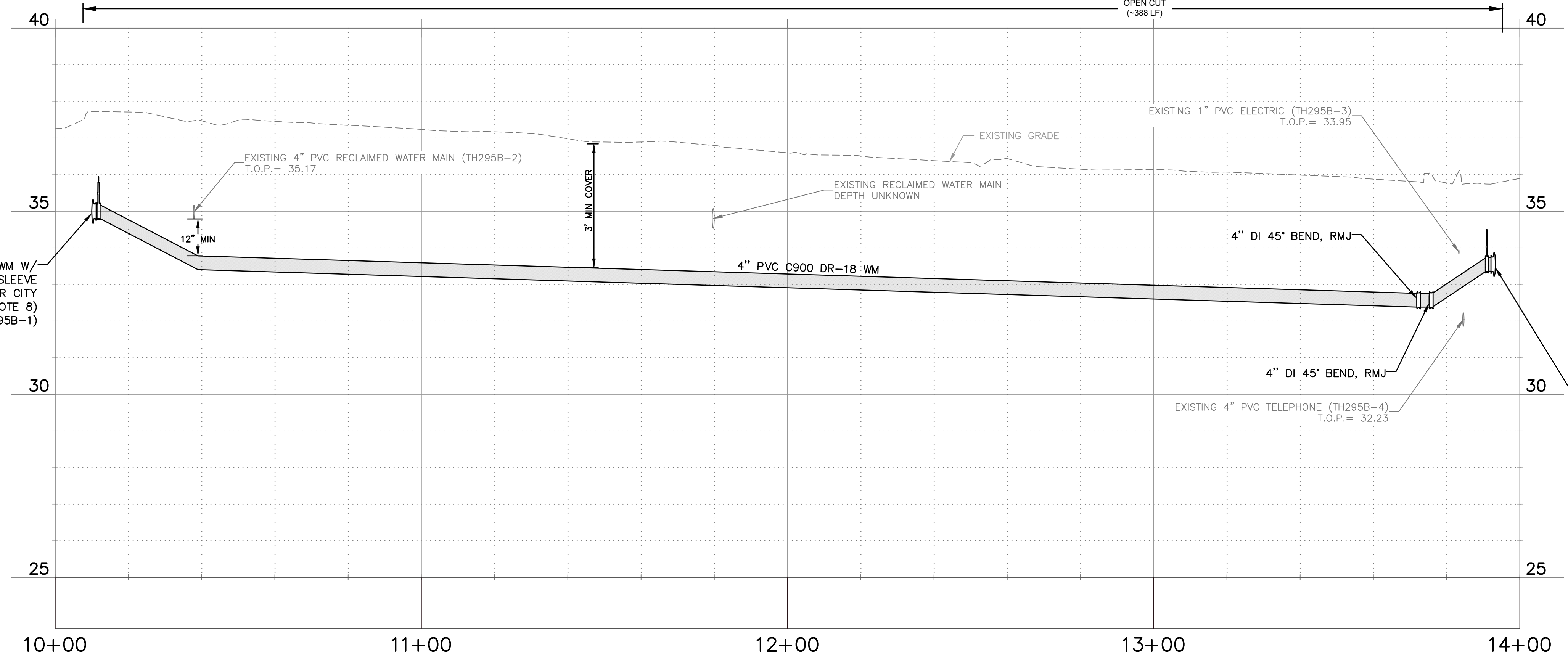
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LEGEND

- X X X X X X X X -	REMOVE EXISTING PIPING
---	GROUT AND ABANDON EXISTING PIPING
---	REMOVE AND REPLACE CONCRETE CURB AND GUTTER
▨	REMOVE AND REPLACE ASPHALT PAVEMENT, INCLUDING PAVEMENT MARKINGS
▨	MILL AND OVERLAY ASPHALT PAVEMENT
▨	REMOVE AND REPLACE CONCRETE DRIVEWAY
▨	REMOVE AND REPLACE CONCRETE SIDEWALK

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CONNECT TO EXISTING 6" WM W/ 6"x4" TAPPING SLEEVE AND 4" TAPPING VALVE PER CITY STD DET INDEX NO. 404 (SEE NOTE 8) TOP EL = 35.20 (TH295B-1)

CONNECT TO EXISTING 6" WM W/ 6"x4" TAPPING SLEEVE AND 4" TAPPING VALVE PER CITY STD DET INDEX NO. 404 (SEE NOTE 8) TOP EL = 33.94 (TH295B-5)

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BY	DATE

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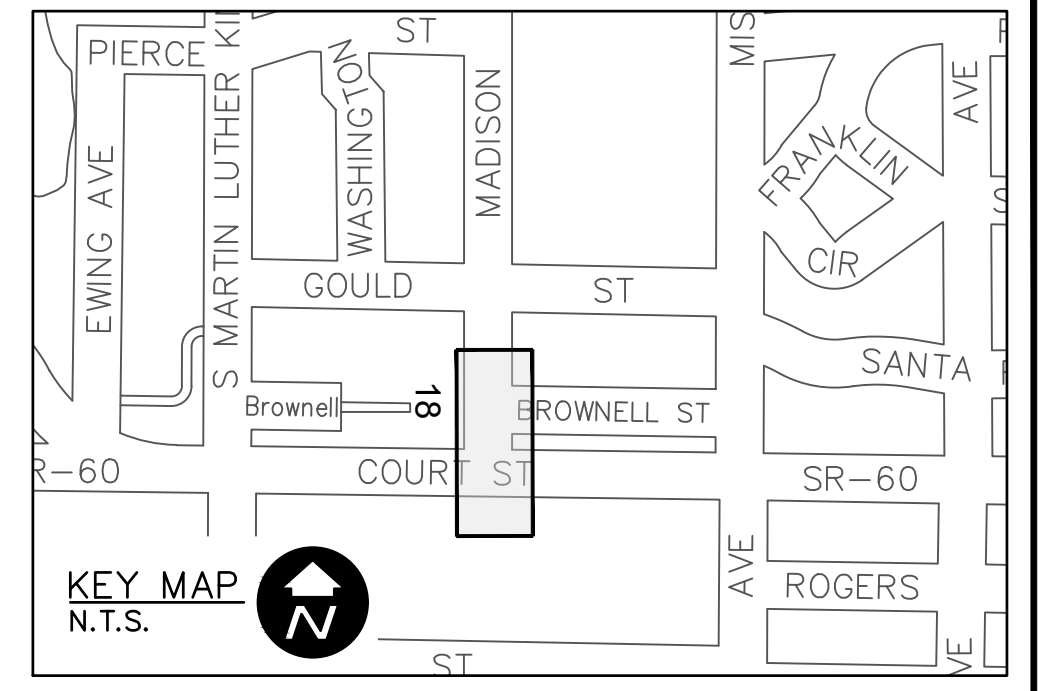
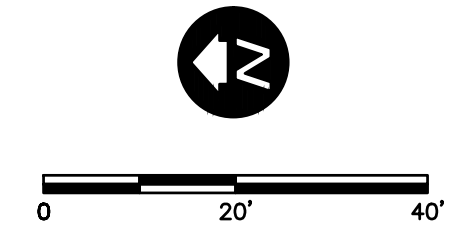
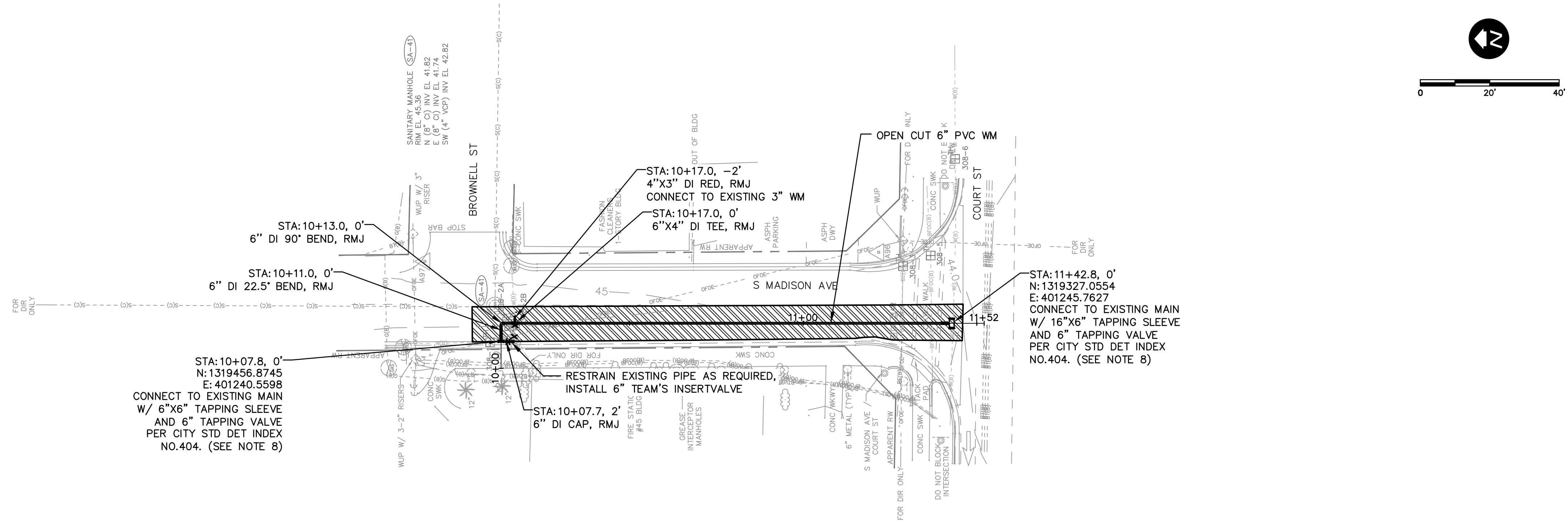
CITY OF CLEARWATER
 POTABLE WATER PIPING IMPROVEMENTS - PHASE 2&4&5
 AREA 295B - OAK AVE
 PLAN & PROFILE

DWG NAME: 295B-C01	FIELD BOOK: N/A	SURVEYED BY: ECHO UES	SCALE: VERT. AS NOTED
CONTRACT NO.: 18-0040-UT	DATE DRAWN: 06/2023	DRAWN BY: VVV/PH	HORIZ. AS NOTED
JOB NO.: 072875	DESIGNED BY: ESW/WTH	CHECKED BY: JRV	SHEET NO.: 17 OF 64

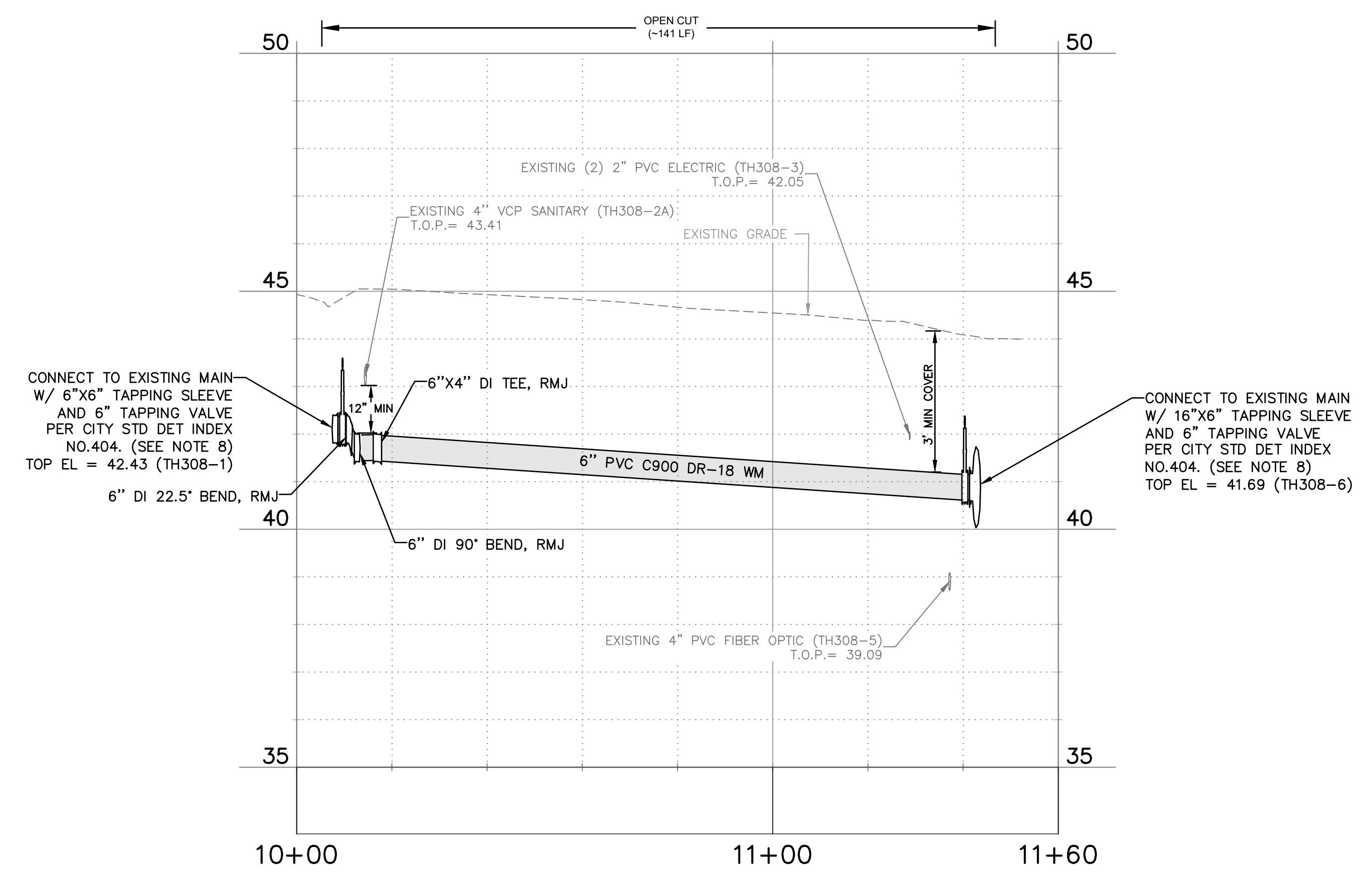
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Individual File Path: C:\Dropbox\Work\FL\Jobs\cha_engineering\072875_clearwater\phase 2 & 4 & 5\Cad files\Ph2_308_072875_C3D_CivilSheets



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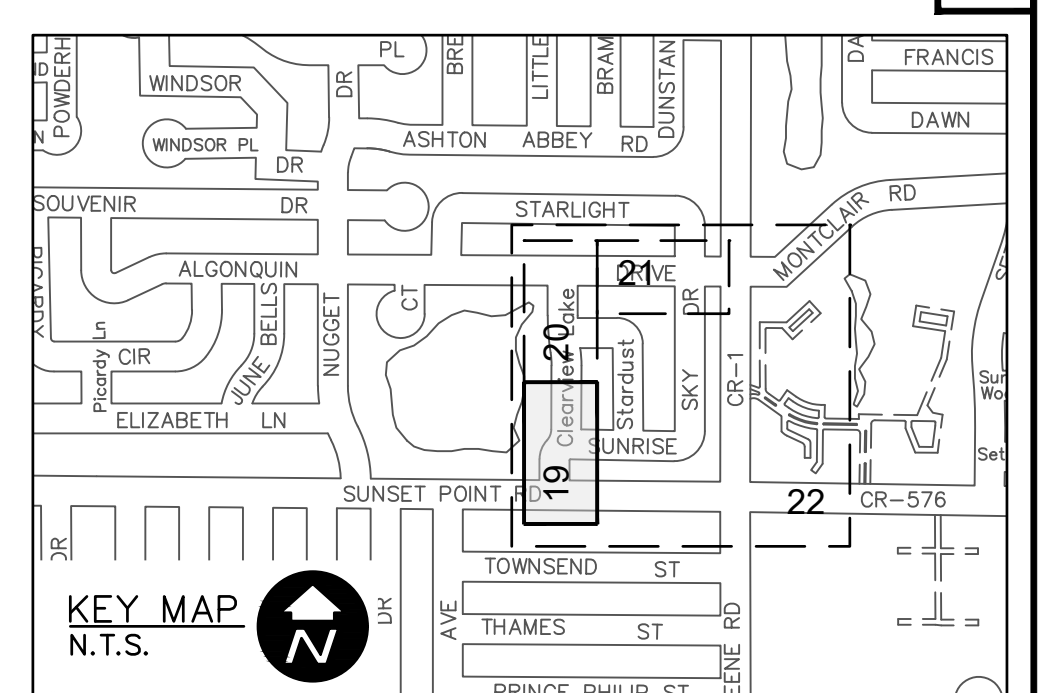
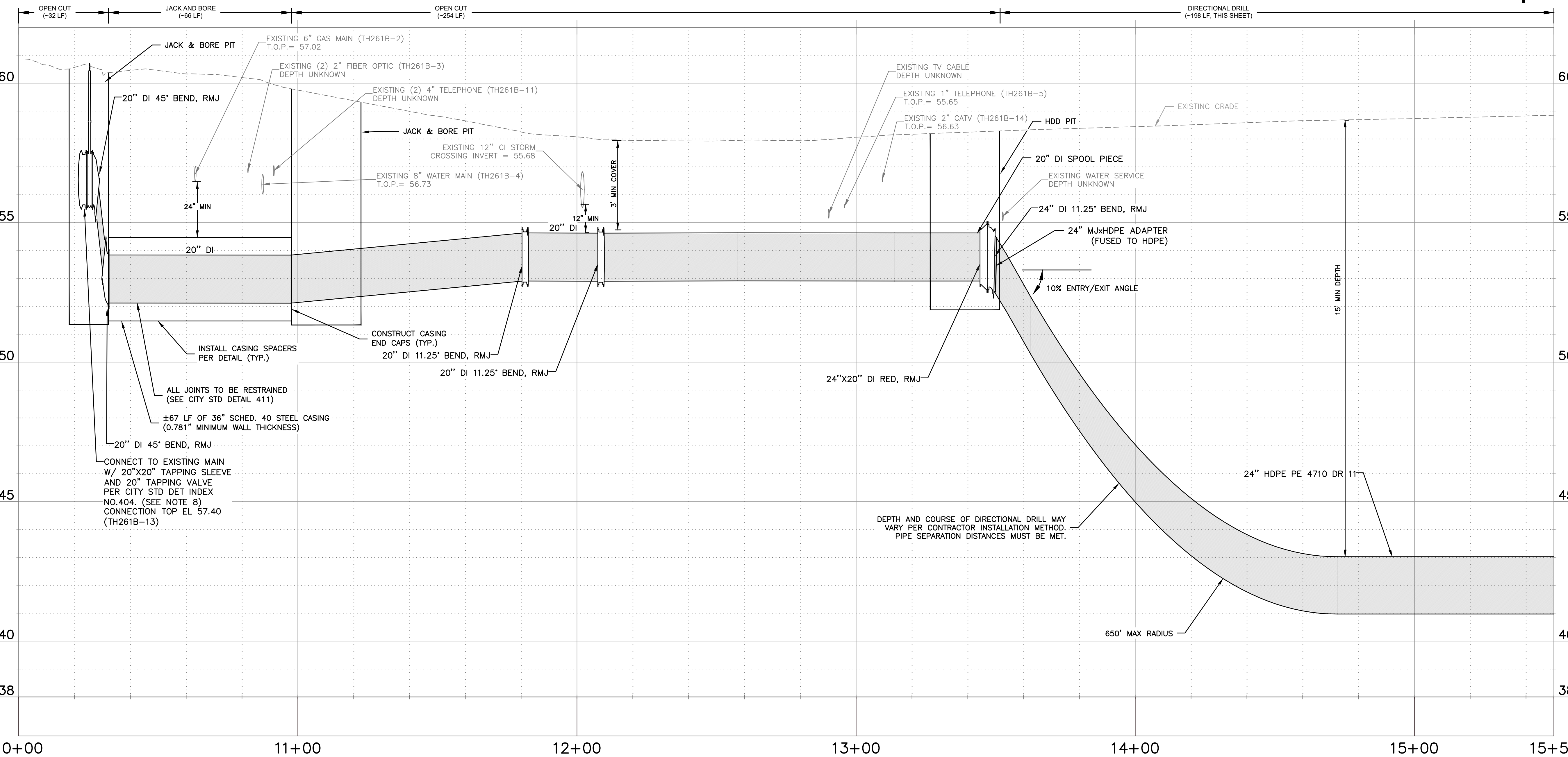
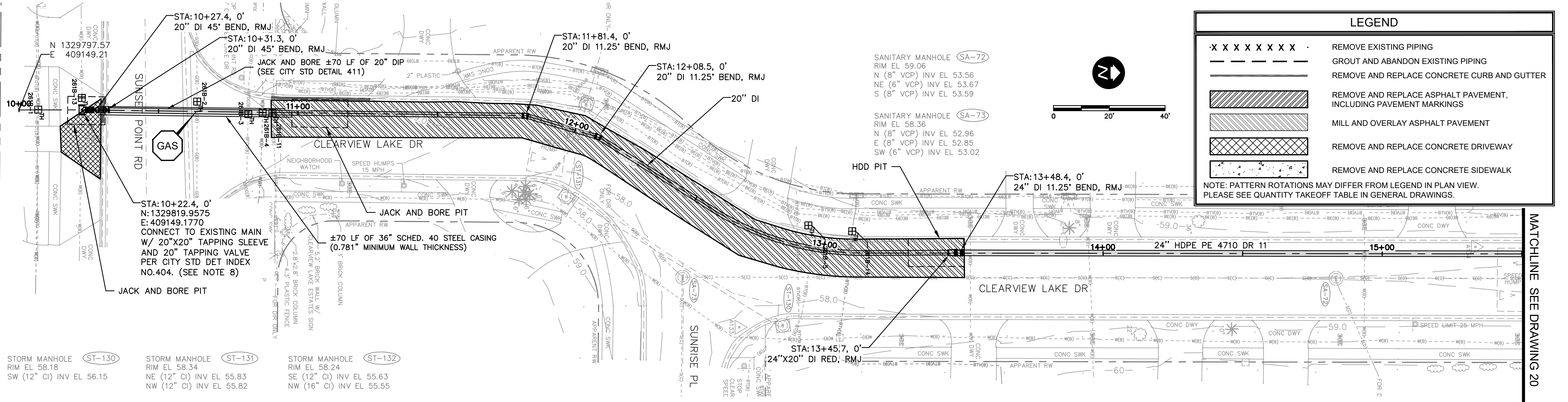
CITY OF CLEARWATER
 POTABLE WATER PIPING IMPROVEMENTS - PHASE 2&4&5
 AREA 308 - S MADISON AVE
 PLAN & PROFILE

DWG NAME:	FIELD BOOK:	SURVEYED BY:	SCALE:
308-C01	N/A	ECHO UES	VERT. AS NOTED
CONTRACT NO.:	DATE DRAWN:	DRAWN BY:	HORIZ. AS NOTED
18-0040-UT	06/2023	VVV/PH	
JOB NO.:	DESIGNED BY:	CHECKED BY:	SHEET NO.:
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 AREA 261B - CLEARVIEW LAKE DR & ALGONQUIN DR
 PLAN & PROFILE

DWG NAME: 261B-C01	FIELD BOOK: N/A	SURVEYED BY: ECHO UES	SCALE: VERT. AS NOTED
CONTRACT NO.: 18-0040-UT	DATE DRAWN: 06/2023	DRAWN BY: VVV/PPH	HORIZ. AS NOTED
JOB NO.: 072875	DESIGNED BY: ESW/WTH	CHECKED BY: JRV	SHEET NO.: 19 OF 64

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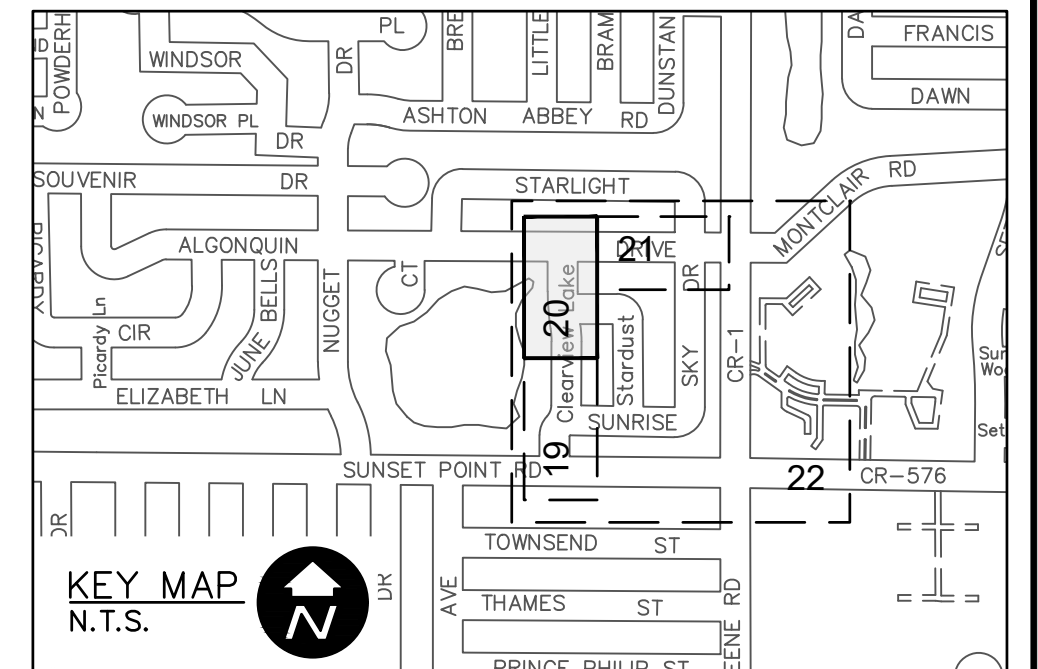
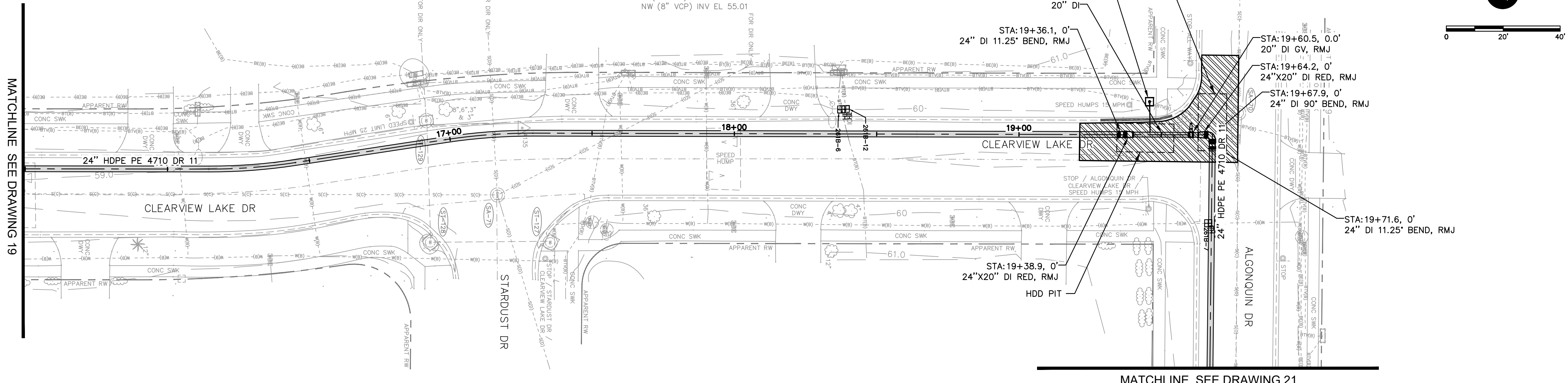
STORM MANHOLE (ST-127) RIM EL 59.33 S (18" RCP) INV EL 56.11

STORM MANHOLE (ST-128) RIM EL 59.06 N (18" RCP) INV EL 55.84 W (15" RCP) INV EL 55.83

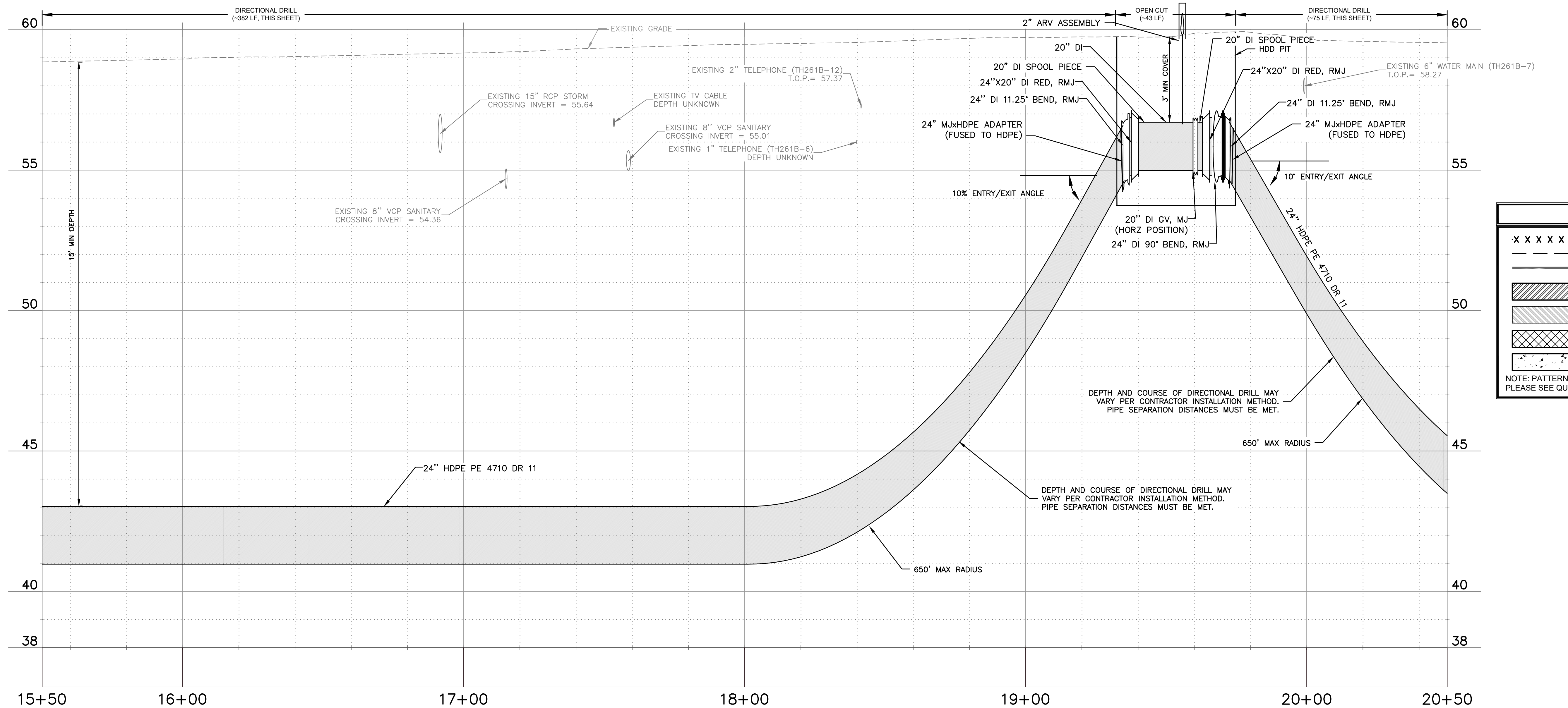
STORM MANHOLE (ST-129) RIM EL 59.33 E (15" RCP) INV EL 55.60 W (24" RCP) INV EL 55.67

SANITARY MANHOLE (SA-70) RIM EL 60.04 E (10" VCP) INV EL 55.16 W (10" VCP) INV EL 55.18

SANITARY MANHOLE (SA-71) RIM EL 59.71 NE (6" VCP) INV EL 54.57 S (8" VCP) INV EL 54.29 W (8" VCP) INV EL 54.36 NW (8" VCP) INV EL 55.01



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LEGEND

XXXXXX	REMOVE EXISTING PIPING
---	GROUT AND ABANDON EXISTING PIPING
---	REMOVE AND REPLACE CONCRETE CURB AND GUTTER
▨	REMOVE AND REPLACE ASPHALT PAVEMENT, INCLUDING PAVEMENT MARKINGS
▨	MILL AND OVERLAY ASPHALT PAVEMENT
▨	REMOVE AND REPLACE CONCRETE DRIVEWAY
▨	REMOVE AND REPLACE CONCRETE SIDEWALK

NOTE: PATTERN ROTATIONS MAY DIFFER FROM LEGEND IN PLAN VIEW. PLEASE SEE QUANTITY TAKEOFF TABLE IN GENERAL DRAWINGS.

Parent Sheet Set: 072875-CirWtr Task: R24/2/2023 5:05 PM Individual File Path: C:\Dropbox\Work\FL\Jobs\cha engineering\072875_clearwater\phase 2 & 4 & 5\cad files\Ph4_261B_072875_C3D_CivilSheets

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SURVEYED BY:	DRAWN BY:	BY	DATE
		VVV	06/2023

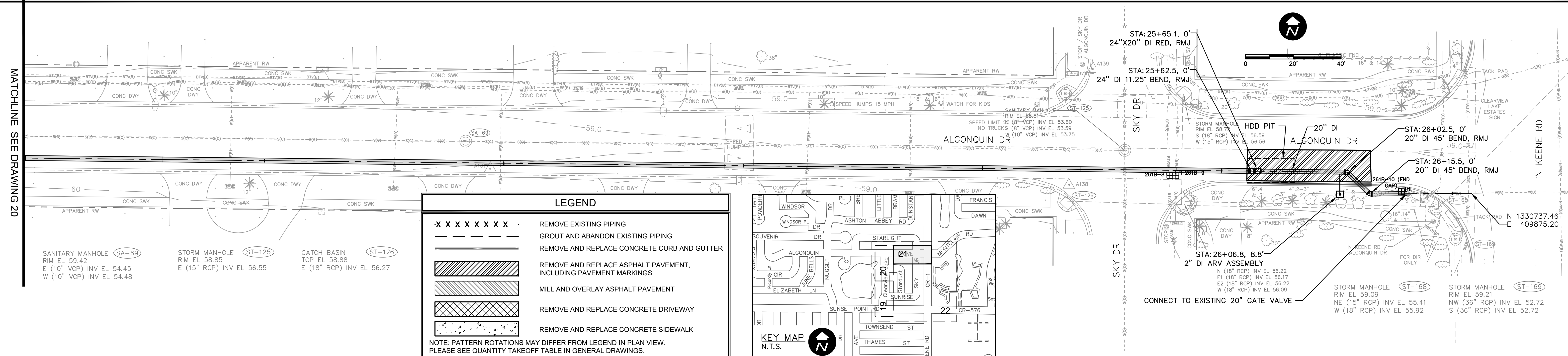
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CITY OF CLEARWATER
 POTABLE WATER PIPING IMPROVEMENTS - PHASE 2&4&5
 AREA 261B - CLEARVIEW LAKE DR & ALGONQUIN DR
 PLAN & PROFILE

DWG NO: 261B-C02	FIELD BOOK: N/A	SURVEYED BY: ECHO UES	SCALE: VERT. AS NOTED
CONTRACT NO.: 18-0040-UT	DATE DRAWN: 06/2023	DRAWN BY: VVV/PPH	HORIZ. AS NOTED
JOB NO.: 072875	DESIGNED BY: ESW/WTH	CHECKED BY: JRV	SHEET NO.: 20 OF 64

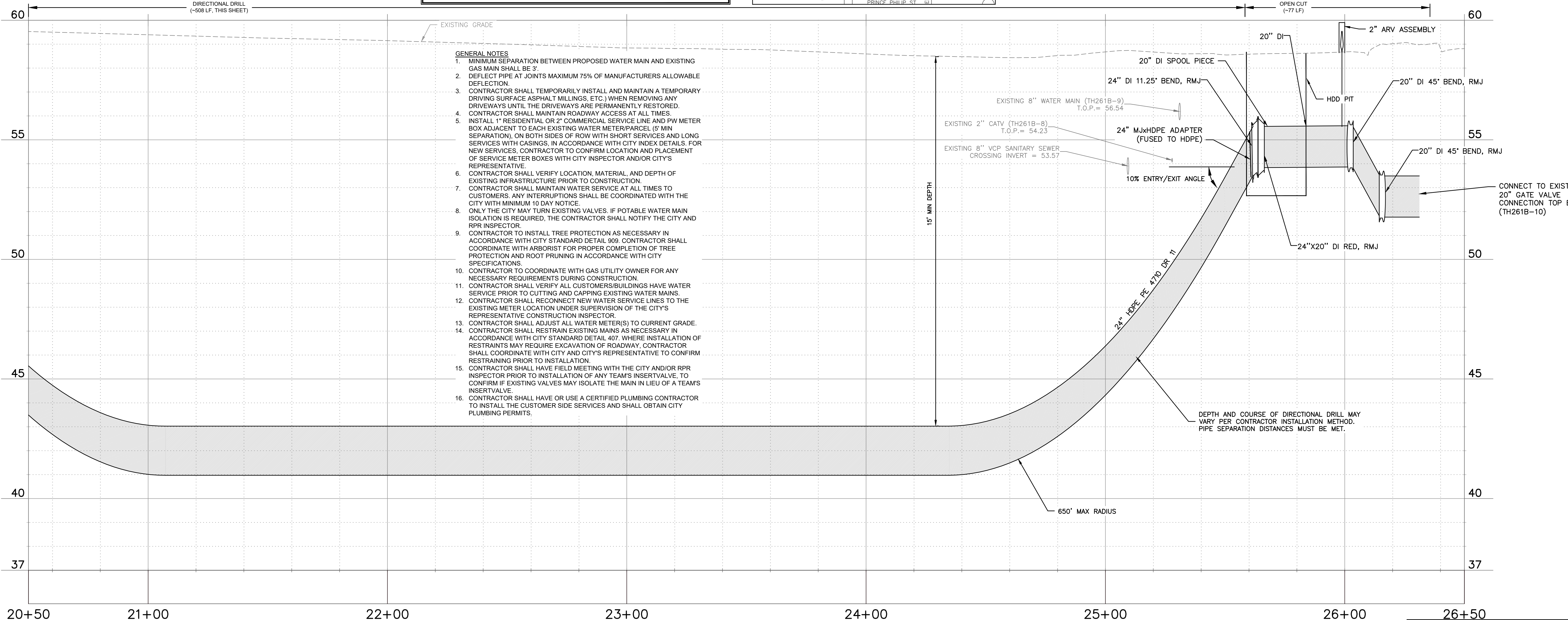
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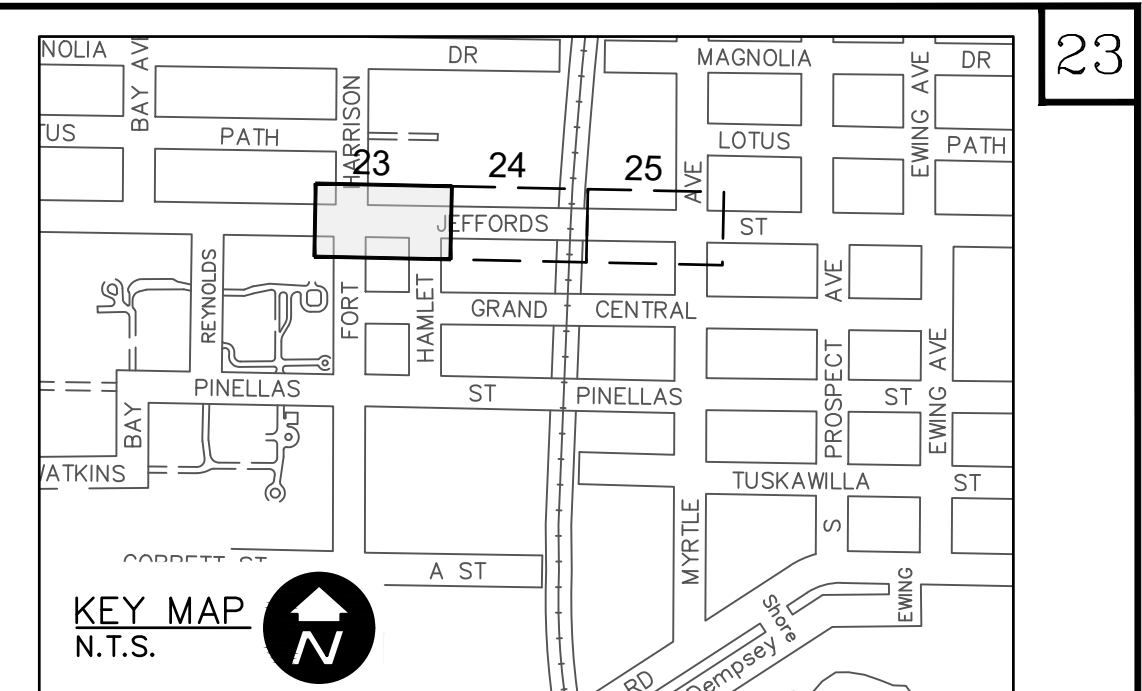
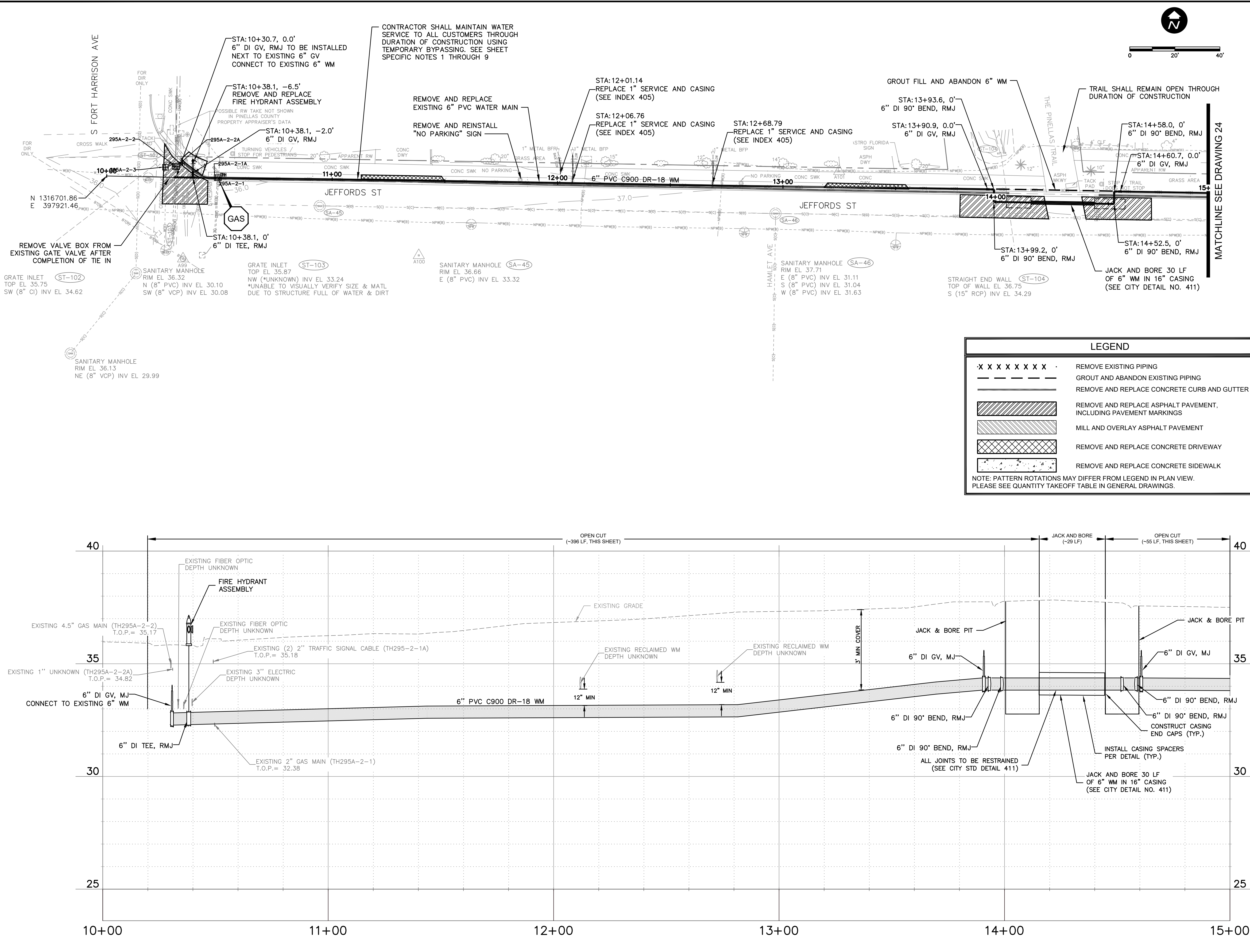


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Parent Sheet: 072875-CirWtr_TaskRq\TaskRq\4855PAUL_HELLER
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 AREA 295A - JEFFORDS ST
 PLAN & PROFILE

DWG NAME: 295A-C01	FIELD BOOK: N/A	SURVEYED BY: ECHO UES	SCALE: VERT. AS NOTED
CONTRACT NO.: 18-0040-UT	DATE DRAWN: 06/2023	DRAWN BY: VVV/PPH	HORIZ. AS NOTED
JOB NO.: 072875	DESIGNED BY: ESW/WTH	CHECKED BY: JRV	SHEET NO.: 23 OF 64

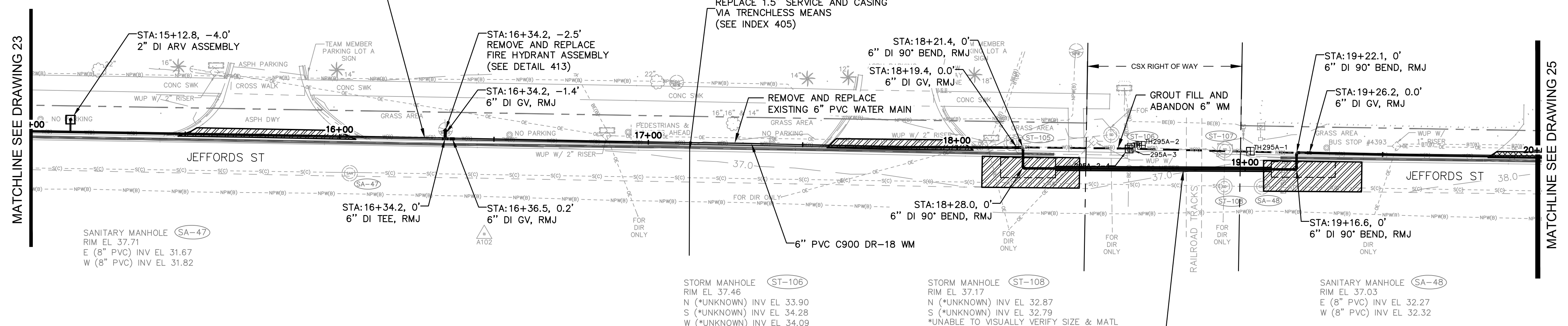
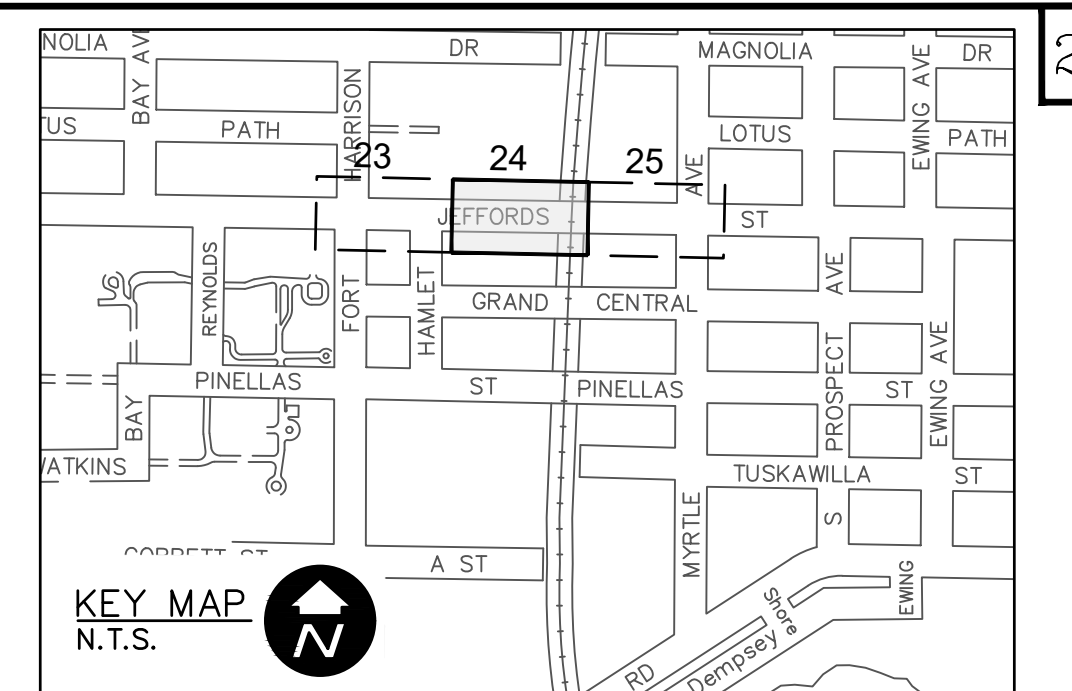
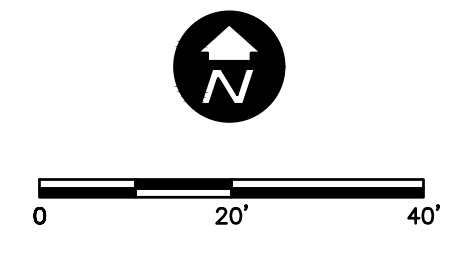
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 3507 EAST FRONTAGE ROAD SUITE 100
 TAMPA, FL 33607
 TEL: (813) 549-8919
 CERTIFICATE OF AUTHORIZATION #28386

CONTRACTOR SHALL MAINTAIN WATER SERVICE TO ALL CUSTOMERS THROUGH DURATION OF CONSTRUCTION USING TEMPORARY BYPASSING. SEE SHEET SPECIFIC NOTES 1 THROUGH 9

STORM MANHOLE (ST-105) RIM EL 37.09 E (*UNKNOWN) INV EL 34.70 *UNABLE TO VISUALLY VERIFY SIZE & MATL DUE TO STRUCTURE FULL OF WATER

STORM MANHOLE (ST-107) RIM EL 37.17 S (*UNKNOWN) INV EL 32.73 *UNABLE TO VISUALLY VERIFY SIZE & MATL DUE TO STRUCTURE FULL OF WATER

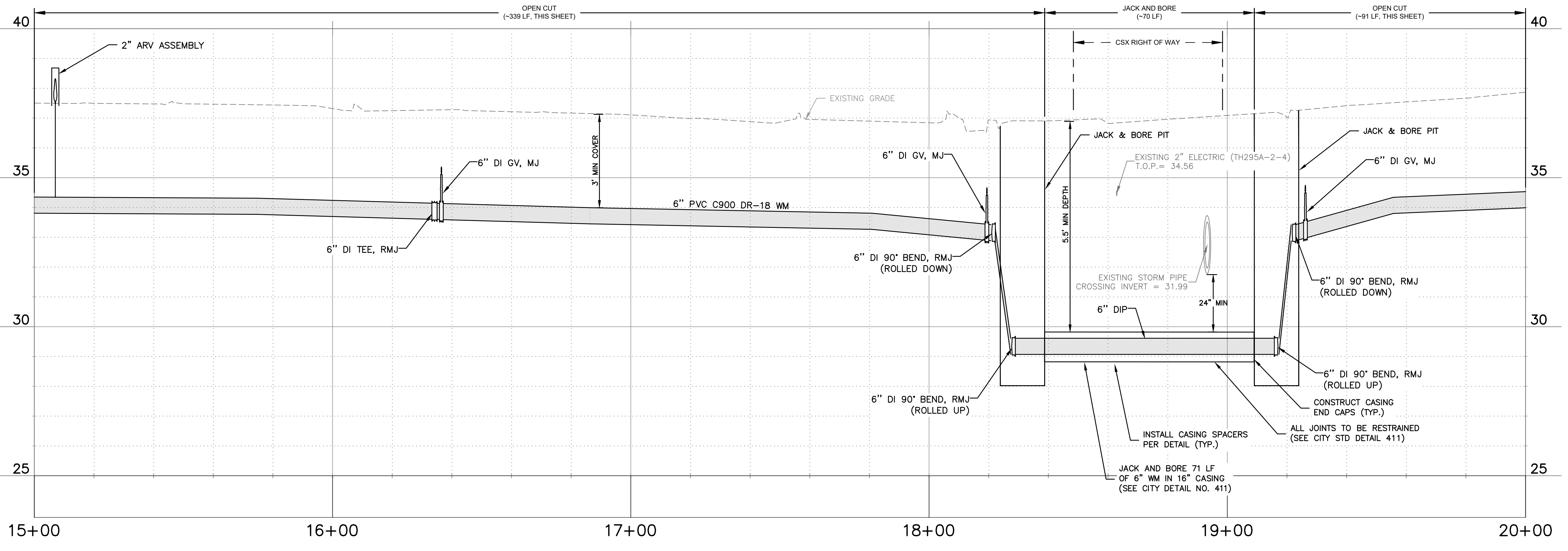


LEGEND

- X X X X X X X X REMOVE EXISTING PIPING
- GROUT AND ABANDON EXISTING PIPING
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- [Hatched Box] REMOVE AND REPLACE ASPHALT PAVEMENT, INCLUDING PAVEMENT MARKINGS
- [Diagonal Lines] MILL AND OVERLAY ASPHALT PAVEMENT
- [Cross-hatched Box] REMOVE AND REPLACE CONCRETE DRIVEWAY
- [Dotted Box] REMOVE AND REPLACE CONCRETE SIDEWALK

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DRAWN BY:	DATE:	VVV	06/2023
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APPROVED BY:	DATE:		

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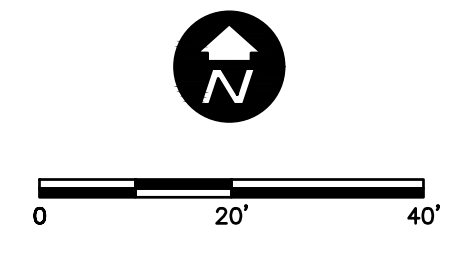
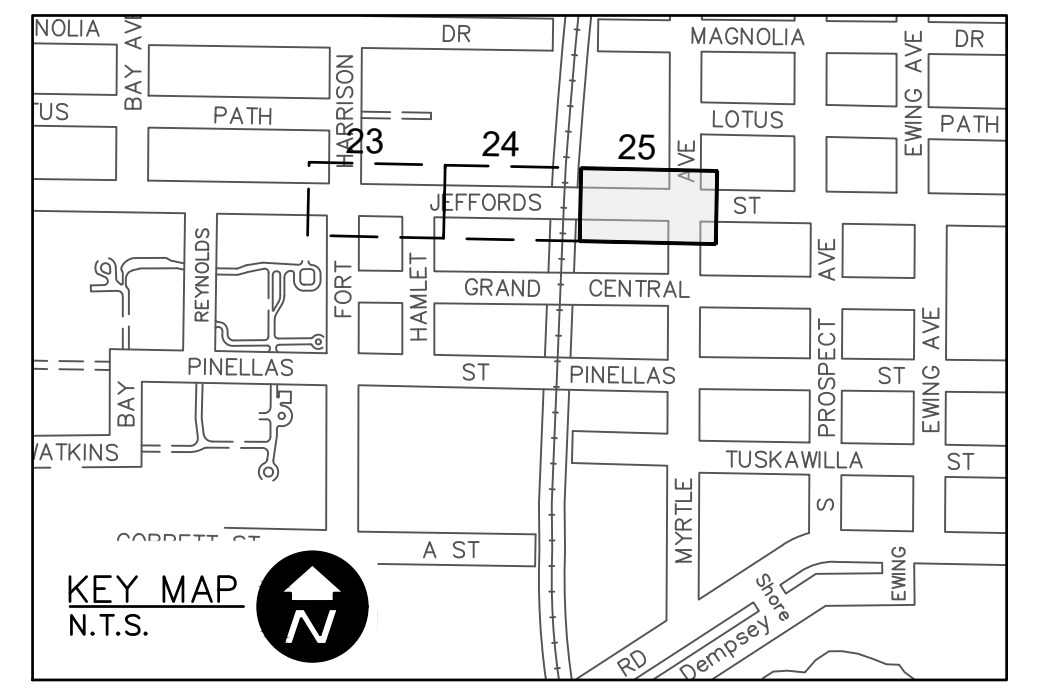
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POTABLE WATER PIPING IMPROVEMENTS - PHASE 2&4&5
 AREA 295A - JEFFORDS ST
 PLAN & PROFILE

CHA CONSULTING, INC.
 3507 EAST FRONTAGE ROAD SUITE 100
 TAMPA, FL 33607
 TEL: (813) 549-8919
 CERTIFICATE OF AUTHORIZATION #28386

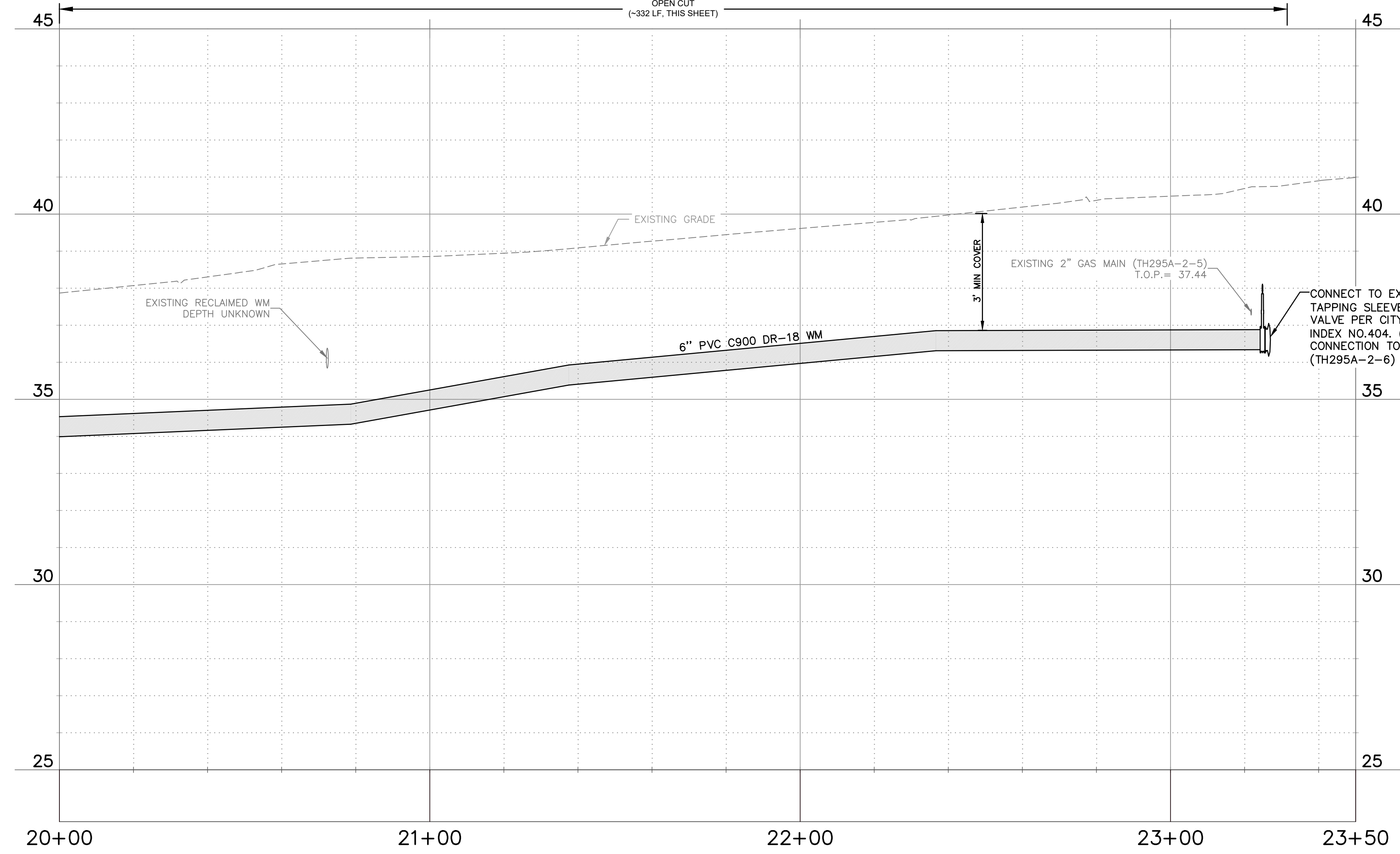
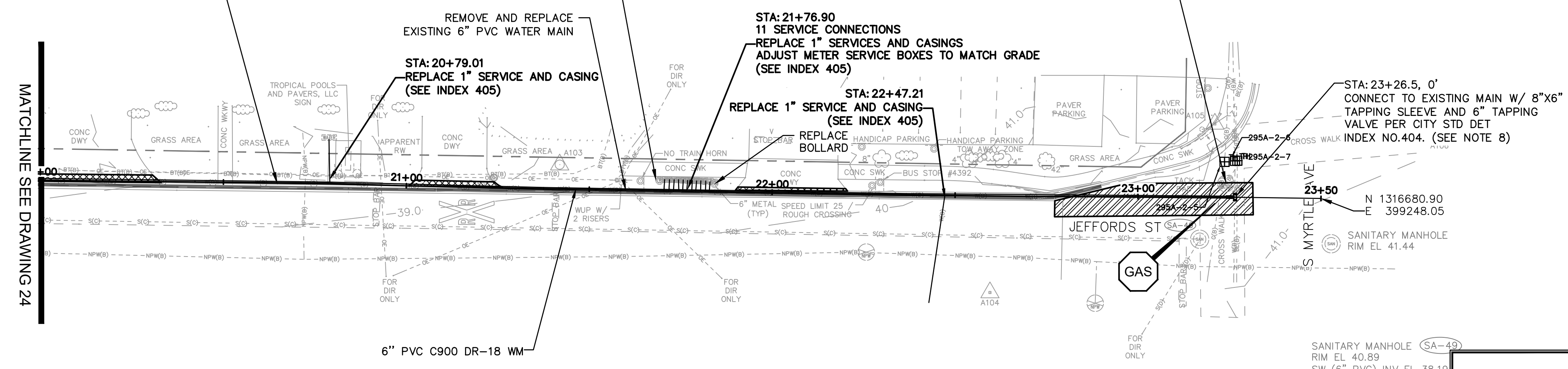
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CONTRACT NO.:	18-0040-UT	DATE DRAWN:	06/2023	DRAWN BY:	VVV/PH	HORIZ. AS NOTED	
JOB NO.:	072875	DESIGNED BY:	ESW/WTH	CHECKED BY:	JRV	SHEET NO.:	24 OF 64

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CONTRACTOR SHALL MAINTAIN WATER SERVICE TO ALL CUSTOMERS THROUGH DURATION OF CONSTRUCTION USING TEMPORARY BYPASSING. SEE SHEET SPECIFIC NOTES 1 THROUGH 9

MATCHLINE SEE DRAWING 24



LEGEND	
X X X X X X X X	REMOVE EXISTING PIPING
---	GROUT AND ABANDON EXISTING PIPING
---	REMOVE AND REPLACE CONCRETE CURB AND GUTTER
[Hatched Pattern]	REMOVE AND REPLACE ASPHALT PAVEMENT, INCLUDING PAVEMENT MARKINGS
[Cross-hatched Pattern]	MILL AND OVERLAY ASPHALT PAVEMENT
[Diagonal Line Pattern]	REMOVE AND REPLACE CONCRETE DRIVEWAY
[Dotted Pattern]	REMOVE AND REPLACE CONCRETE SIDEWALK

NOTE: PATTERN ROTATIONS MAY DIFFER FROM LEGEND IN PLAN VIEW. PLEASE SEE QUANTITY TAKEOFF TABLE IN GENERAL DRAWINGS.

- GENERAL NOTES**
- MINIMUM SEPARATION BETWEEN PROPOSED WATER MAIN AND EXISTING GAS MAIN SHALL BE 3'.
 - DEFLECT PIPE AT JOINTS MAXIMUM 75% OF MANUFACTURERS ALLOWABLE DEFLECTION.
 - CONTRACTOR SHALL TEMPORARILY INSTALL AND MAINTAIN A TEMPORARY DRIVING SURFACE ASPHALT MILLINGS, ETC.) WHEN REMOVING ANY DRIVEWAYS UNTIL THE DRIVEWAYS ARE PERMANENTLY RESTORED.
 - CONTRACTOR SHALL MAINTAIN ROADWAY ACCESS AT ALL TIMES.
 - INSTALL 1" RESIDENTIAL OR 2" COMMERCIAL SERVICE LINE AND PW METER BOX ADJACENT TO EACH EXISTING WATER METER PARCEL (5 MIN SEPARATION), ON BOTH SIDES OF ROW WITH SHORT SERVICES AND LONG SERVICES WITH CASINGS. IN ACCORDANCE WITH CITY INDEX DETAILS. FOR NEW SERVICES, CONTRACTOR TO CONFIRM LOCATION AND PLACEMENT OF SERVICE METER BOXES WITH CITY INSPECTOR AND/OR CITY'S REPRESENTATIVE.
 - CONTRACTOR SHALL VERIFY LOCATION, MATERIAL, AND DEPTH OF EXISTING INFRASTRUCTURE PRIOR TO CONSTRUCTION.
 - CONTRACTOR SHALL MAINTAIN WATER SERVICE AT ALL TIMES TO CUSTOMERS. ANY INTERRUPTIONS SHALL BE COORDINATED WITH THE CITY WITH MINIMUM 10 DAY NOTICE.
 - ONLY THE CITY MAY TURN EXISTING VALVES. IF POTABLE WATER MAIN ISOLATION IS REQUIRED, THE CONTRACTOR SHALL NOTIFY THE CITY AND RPR INSPECTOR.
 - CONTRACTOR TO INSTALL TREE PROTECTION AS NECESSARY IN ACCORDANCE WITH CITY STANDARD DETAIL 909. CONTRACTOR SHALL COORDINATE WITH ARBORIST FOR PROPER COMPLETION OF TREE PROTECTION AND ROOT PRUNING IN ACCORDANCE WITH CITY SPECIFICATIONS.
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 - CONTRACTOR SHALL ADJUST ALL WATER METER(S) TO CURRENT GRADE.
 - CONTRACTOR SHALL RESTRAIN EXISTING MAINS AS NECESSARY IN ACCORDANCE WITH CITY STANDARD DETAIL 407. WHERE INSTALLATION OF RESTRAINTS MAY REQUIRE EXCAVATION OF ROADWAY, CONTRACTOR SHALL COORDINATE WITH CITY AND CITY'S REPRESENTATIVE TO CONFIRM RESTRAINING PRIOR TO INSTALLATION.
 - CONTRACTOR SHALL HAVE FIELD MEETING WITH THE CITY AND/OR RPR INSPECTOR PRIOR TO INSTALLATION OF ANY TEAM'S INSERT VALVE. TO CONFIRM IF EXISTING VALVES MAY ISOLATE THE MAIN IN LIEU OF A TEAM'S INSERT VALVE.
 - CONTRACTOR SHALL HAVE OR USE A CERTIFIED PLUMBING CONTRACTOR TO INSTALL THE CUSTOMER SIDE SERVICES AND SHALL OBTAIN CITY PLUMBING PERMITS.

- SHEET SPECIFIC NOTES**
- THE PIPELINE SHALL BE INSTALLED AS A CONTINUOUS OPERATION WHERE THE EXISTING WATER MAIN IS REMOVED AND REPLACED IN THE SAME LOCATION. WATER SERVICE SHALL BE MAINTAINED AT ALL TIMES TO CUSTOMERS VIA TEMPORARY BYPASSING.
 - THE CONTRACTOR SHALL SUBMIT A TEMPORARY BYPASSING PLAN IDENTIFYING THE PROPOSED LOCATIONS OF TEMPORARY TAPS FOR BYPASSING, VALVING, PLACEMENT OF BYPASSING DRIVEWAY SURFACES, AND CUSTOMER CONNECTIONS. TEMPORARY BYPASSING SHALL CONSIST OF A MINIMUM OF A 2-INCH DIAMETER WATER MAIN. CONTRACTOR SHALL CHLORINATE 2-INCH TEMPORARY WATER MAIN AND SERVICE LINES. CONTRACTOR SHALL COORDINATE WITH THE CITY TO COLLECT 2 CONSECUTIVE DAY WATER SAMPLES AND RECEIVING CLEARANCE FROM THE LAB PRIOR TO CONNECTING PROPERTY SERVICE OVER TO TEMPORARY MAIN.
 - TEMPORARY BYPASSING FOR SERVICE CONNECTIONS SHALL BE LIMITED.
 - CONNECTIONS TO EXISTING WATER MAINS SHALL BE DONE IN A TIMELY MANNER. AT NO TIME SHALL THE FLOW OF WATER RUNNING THE LENGTH OF THE PROJECT BE STOPPED EXCEPT TO RECONNECT TO WATER MAINS THAT HAVE BEEN TESTED AND CLEARED FOR POTABLE WATER USE. THE CONTRACTOR SHALL COORDINATE WITH THE CITY TO FACILITATE THESE CONNECTIONS.
 - THE CONTRACTOR SHALL MAINTAIN WATER QUALITY THROUGHOUT BYPASSING. TO MAINTAIN WATER QUALITY, THE CONTRACTOR MAY BE REQUIRED TO PROVIDE FLUSHING HYDRANTS AT EACH DEAD-END AND FLUSH THE MAIN AT THREE-DAY INTERVALS AS REQUIRED TO SATISFY FDEP REQUIREMENTS. THE WATER MAIN SHALL BE FLUSHED FOR THE DURATION REQUIRED TO REMOVE TWO VOLUMES OF WATER FROM THE DEAD END SECTION. THE CONTRACTOR SHALL OBTAIN WATER SAMPLES AS REQUIRED TO COMPLETE FDEP SHUTDOWN REQUIREMENTS. ALL COSTS FOR TEMPORARY CUTTING, REQUIRED TESTING, AND PLUGGING WATER MAINS, AND MAINTAINING WATER QUALITY SHALL BE AT THE EXPENSE OF THE CONTRACTOR WITH NO ADDITIONAL COST TO THE CITY.
 - FOR TIE-INS WHERE SERVICE MAY BE TEMPORARILY INTERRUPTED, THE CONTRACTOR MUST HAVE PRE-ASSEMBLED ALL NEW PIPING EXCEPT AT THE POINT OF THE TIE-IN INCLUDING SERVICE LINES BEING TRANSFERRED TO THE NEW MAIN. THE ENTIRE PRE-ASSEMBLY SHALL BE SUCCESSFULLY PRESSURE TESTED AND BACTERIOLOGICAL TESTED PRIOR TO THE SHUTDOWN. THE CONTRACTOR SHALL HAVE SUFFICIENT CREWS ON SITE TO ACCOMPLISH THE SHUTDOWN IN LESS THAN FOUR HOURS.
 - THE CONTRACTOR SHALL PROVIDE REQUIRED SAMPLING IMMEDIATELY FOLLOWING PLACING THE WATER MAIN BACK IN SERVICE. ALL SAMPLES MUST PASS TWO (2) CONSECUTIVE DAYS OF SAMPLING TO BE APPROVED. IN ORDER TO ISSUE RESCIND BOIL WATER NOTICES, THE CITY MUST BE NOTIFIED IMMEDIATELY OF PASSED SAMPLE RESULTS. FINAL TESTING RESULTS SHALL BE KEPT IN THE JOB FILE AND MADE AVAILABLE UPON REQUEST TO FDEP.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE CITY FIRE DEPARTMENT OF BYPASSING OPERATIONS WHERE FIRE FLOW MAY BE LIMITED. THE CONTRACTOR SHALL MAKE ALL EFFORTS PHASE CONSTRUCTION TO LIMIT THE DURATION THAT FIRE HYDRANTS/CONNECTIONS MAY BE OUT OF SERVICE. CONTRACTOR SHALL FOLLOW ALL NECESSARY REQUIREMENTS OUTLINED BY CSX FOR CONSTRUCTION WITHIN THE VICINITY OF THE RAILROAD. REFER TO PERMIT FOR ANY REQUIREMENTS.

Parent Sheet Set: 072875-CirWtr Task: Rwy/Plumb/Asst/PAUL HELLER Rev on: 2/22/2023 5:05 PM Individual File Path: C:\Dropbox\Work\FL\Jobs\cha_engineering\072875_clearwater\phase 2 & 4 & 5\cod_files\Ph4_295A_072875_C3D_Civil\Sheets

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REVIEWED BY:	PROJECT ENGINEER
DATE:	DATE:
APPROVED BY:	DATE:

REVISION	
BY	DATE
0: ISSUED FOR BID	VVV 06/2023

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



CITY OF CLEARWATER
 POTABLE WATER PIPING IMPROVEMENTS - PHASE 2&4&5
 AREA 295A - JEFFORDS ST
 PLAN & PROFILE

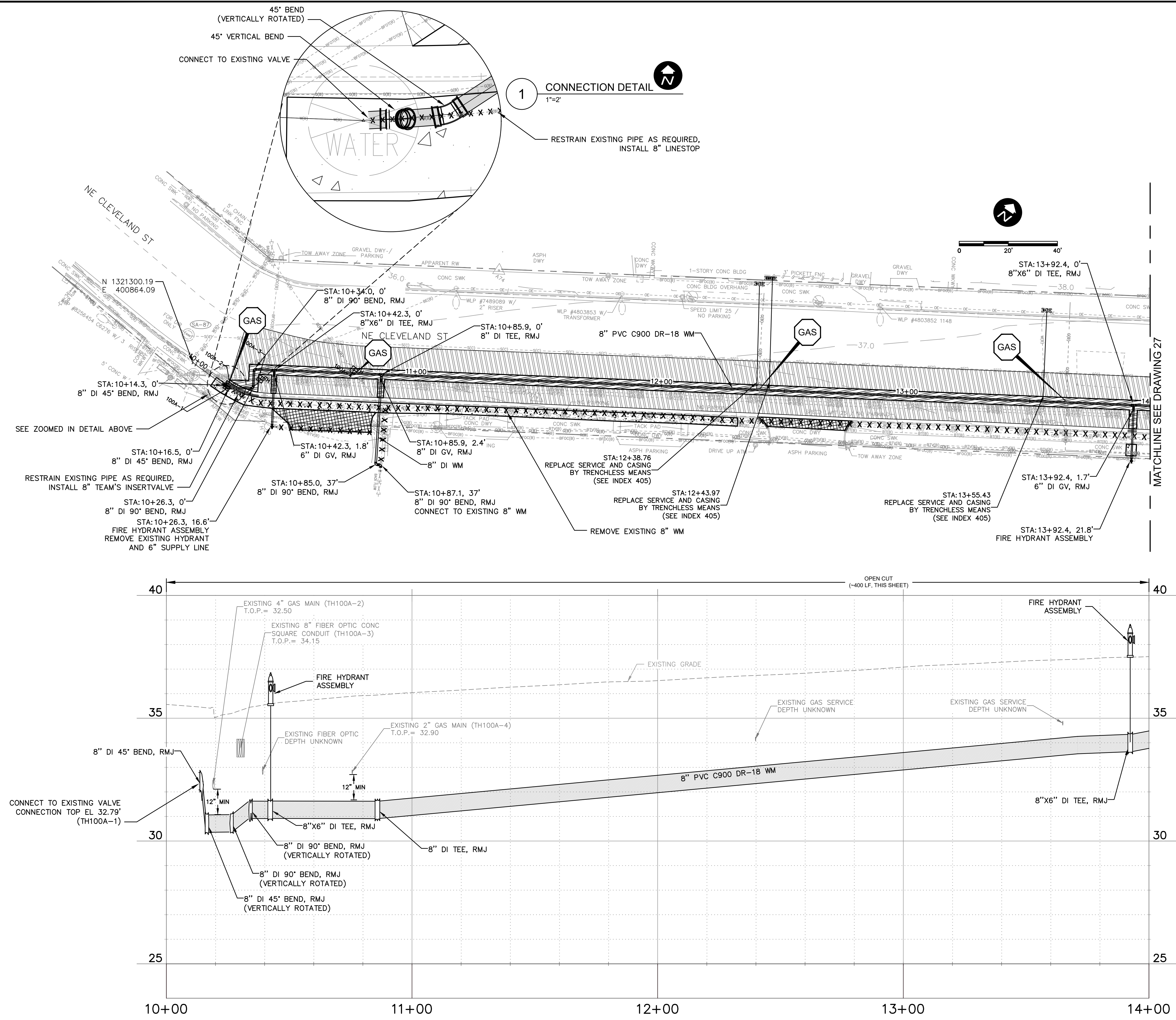
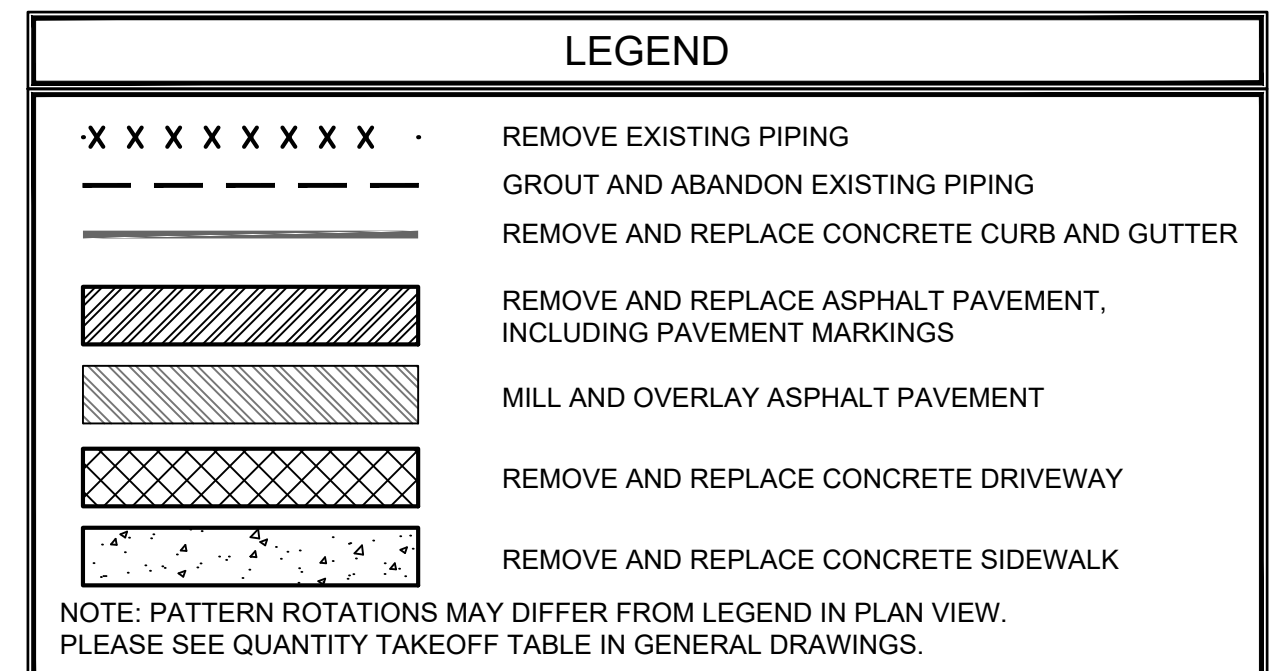


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RECORD DRAWINGS		REVISION	
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		VVV	06/2023

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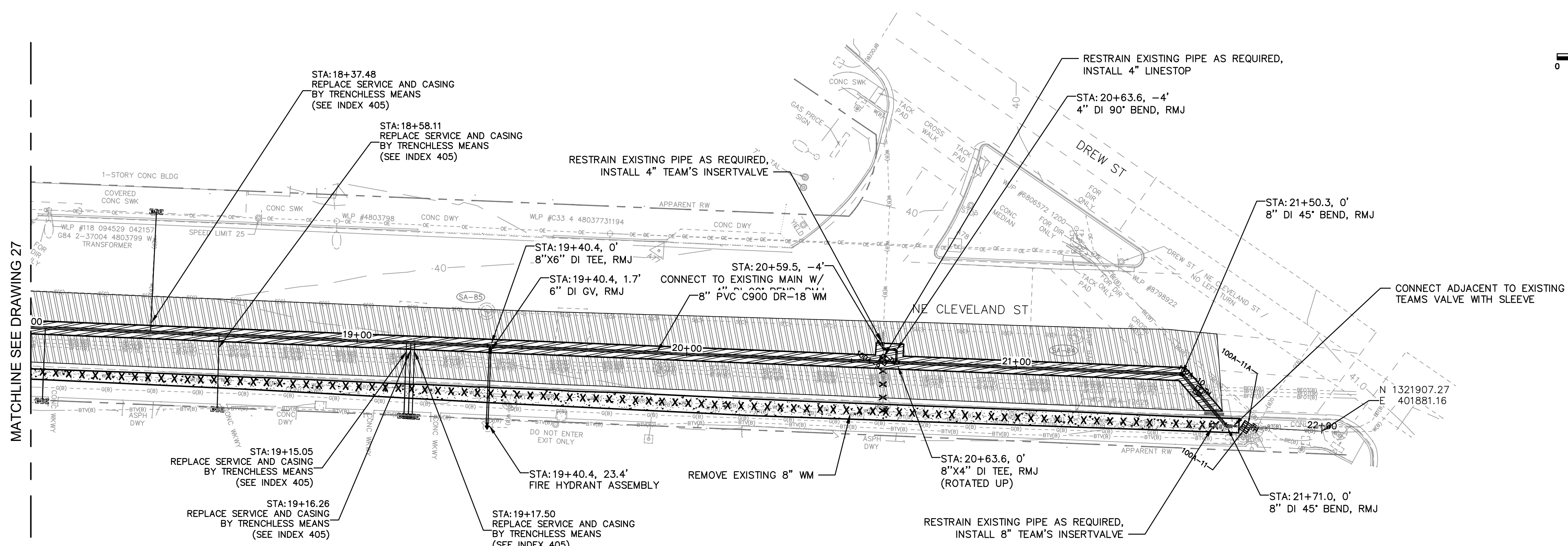
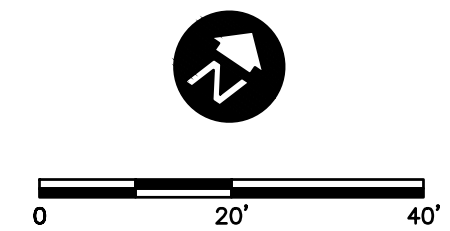


CITY OF CLEARWATER
POTABLE WATER PIPING IMPROVEMENTS - PHASE 2&4&5
 AREA 100A - NE CLEVELAND ST
 PLAN & PROFILE

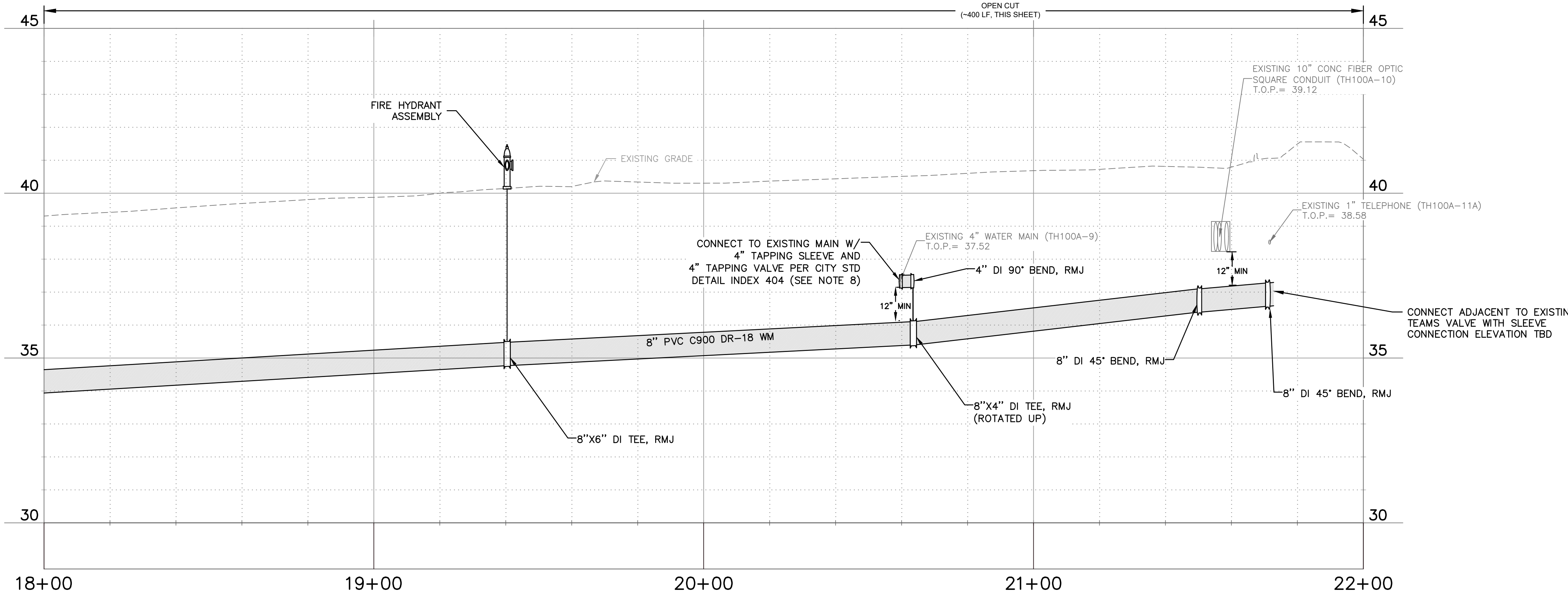
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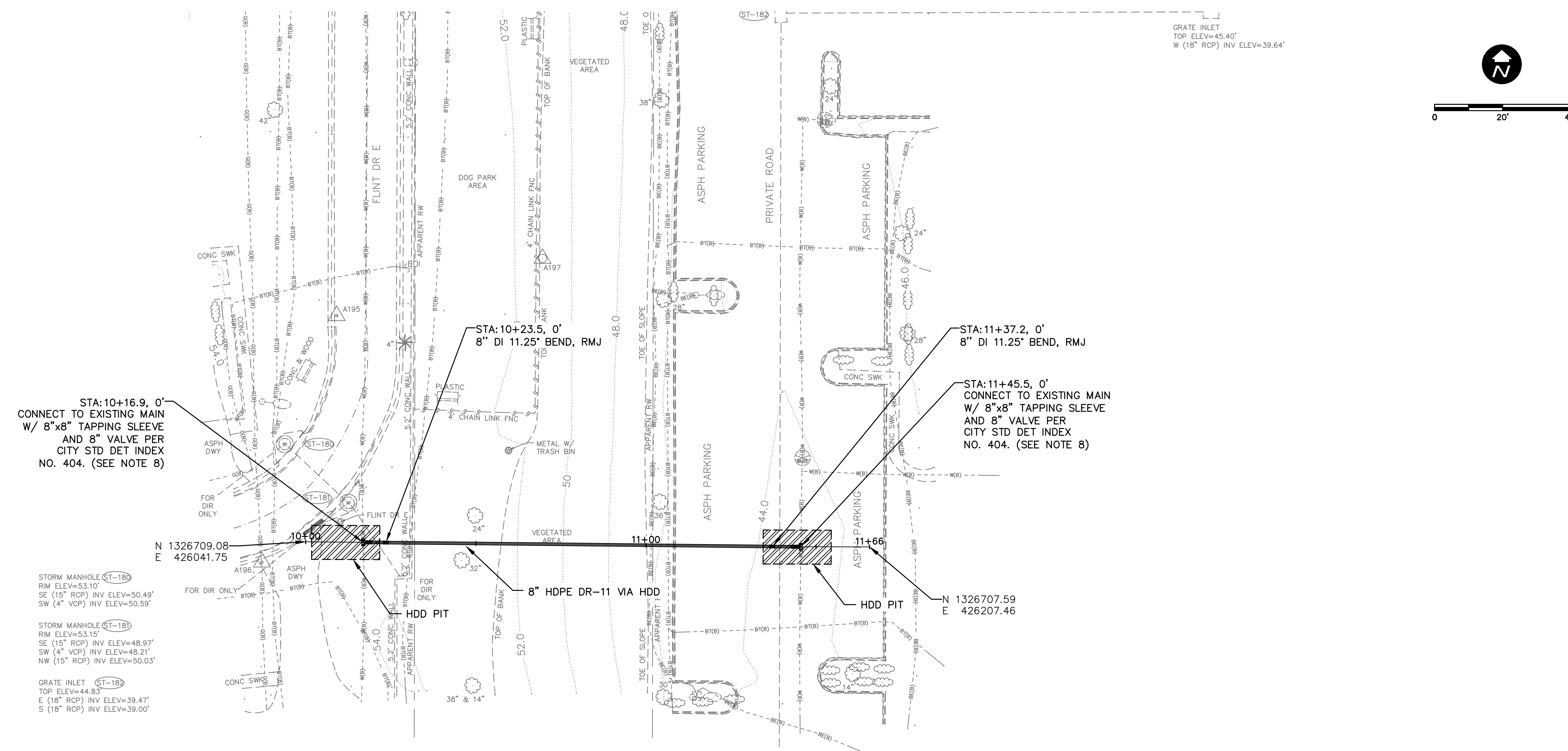
LEGEND

- X X X X X X X X REMOVE EXISTING PIPING
- GROUT AND ABANDON EXISTING PIPING
- REMOVE AND REPLACE CONCRETE CURB AND GUTTER
- REMOVE AND REPLACE ASPHALT PAVEMENT, INCLUDING PAVEMENT MARKINGS
- MILL AND OVERLAY ASPHALT PAVEMENT
- REMOVE AND REPLACE CONCRETE DRIVEWAY
- REMOVE AND REPLACE CONCRETE SIDEWALK

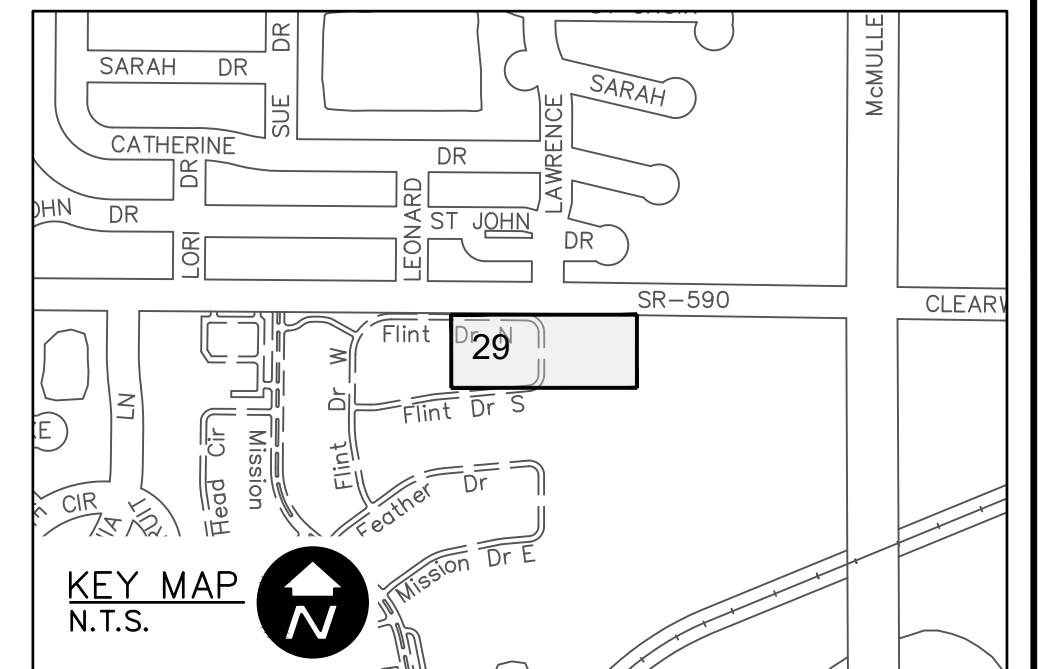
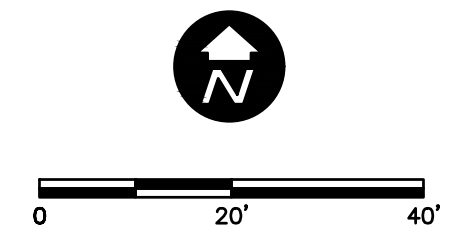
NOTE: PATTERN ROTATIONS MAY DIFFER FROM LEGEND IN PLAN VIEW. PLEASE SEE QUANTITY TAKEOFF TABLE IN GENERAL DRAWINGS.

Parent Sheet Set: 072875-CirWtr TaskR2a/P1/P1a/P1b/P1c/P1d/P1e/P1f/P1g/P1h/P1i/P1j/P1k/P1l/P1m/P1n/P1o/P1p/P1q/P1r/P1s/P1t/P1u/P1v/P1w/P1x/P1y/P1z/P2a/P2b/P2c/P2d/P2e/P2f/P2g/P2h/P2i/P2j/P2k/P2l/P2m/P2n/P2o/P2p/P2q/P2r/P2s/P2t/P2u/P2v/P2w/P2x/P2y/P2z/P3a/P3b/P3c/P3d/P3e/P3f/P3g/P3h/P3i/P3j/P3k/P3l/P3m/P3n/P3o/P3p/P3q/P3r/P3s/P3t/P3u/P3v/P3w/P3x/P3y/P3z/P4a/P4b/P4c/P4d/P4e/P4f/P4g/P4h/P4i/P4j/P4k/P4l/P4m/P4n/P4o/P4p/P4q/P4r/P4s/P4t/P4u/P4v/P4w/P4x/P4y/P4z/P5a/P5b/P5c/P5d/P5e/P5f/P5g/P5h/P5i/P5j/P5k/P5l/P5m/P5n/P5o/P5p/P5q/P5r/P5s/P5t/P5u/P5v/P5w/P5x/P5y/P5z/P6a/P6b/P6c/P6d/P6e/P6f/P6g/P6h/P6i/P6j/P6k/P6l/P6m/P6n/P6o/P6p/P6q/P6r/P6s/P6t/P6u/P6v/P6w/P6x/P6y/P6z/P7a/P7b/P7c/P7d/P7e/P7f/P7g/P7h/P7i/P7j/P7k/P7l/P7m/P7n/P7o/P7p/P7q/P7r/P7s/P7t/P7u/P7v/P7w/P7x/P7y/P7z/P8a/P8b/P8c/P8d/P8e/P8f/P8g/P8h/P8i/P8j/P8k/P8l/P8m/P8n/P8o/P8p/P8q/P8r/P8s/P8t/P8u/P8v/P8w/P8x/P8y/P8z/P9a/P9b/P9c/P9d/P9e/P9f/P9g/P9h/P9i/P9j/P9k/P9l/P9m/P9n/P9o/P9p/P9q/P9r/P9s/P9t/P9u/P9v/P9w/P9x/P9y/P9z/P10a/P10b/P10c/P10d/P10e/P10f/P10g/P10h/P10i/P10j/P10k/P10l/P10m/P10n/P10o/P10p/P10q/P10r/P10s/P10t/P10u/P10v/P10w/P10x/P10y/P10z/P11a/P11b/P11c/P11d/P11e/P11f/P11g/P11h/P11i/P11j/P11k/P11l/P11m/P11n/P11o/P11p/P11q/P11r/P11s/P11t/P11u/P11v/P11w/P11x/P11y/P11z/P12a/P12b/P12c/P12d/P12e/P12f/P12g/P12h/P12i/P12j/P12k/P12l/P12m/P12n/P12o/P12p/P12q/P12r/P12s/P12t/P12u/P12v/P12w/P12x/P12y/P12z/P13a/P13b/P13c/P13d/P13e/P13f/P13g/P13h/P13i/P13j/P13k/P13l/P13m/P13n/P13o/P13p/P13q/P13r/P13s/P13t/P13u/P13v/P13w/P13x/P13y/P13z/P14a/P14b/P14c/P14d/P14e/P14f/P14g/P14h/P14i/P14j/P14k/P14l/P14m/P14n/P14o/P14p/P14q/P14r/P14s/P14t/P14u/P14v/P14w/P14x/P14y/P14z/P15a/P15b/P15c/P15d/P15e/P15f/P15g/P15h/P15i/P15j/P15k/P15l/P15m/P15n/P15o/P15p/P15q/P15r/P15s/P15t/P15u/P15v/P15w/P15x/P15y/P15z/P16a/P16b/P16c/P16d/P16e/P16f/P16g/P16h/P16i/P16j/P16k/P16l/P16m/P16n/P16o/P16p/P16q/P16r/P16s/P16t/P16u/P16v/P16w/P16x/P16y/P16z/P17a/P17b/P17c/P17d/P17e/P17f/P17g/P17h/P17i/P17j/P17k/P17l/P17m/P17n/P17o/P17p/P17q/P17r/P17s/P17t/P17u/P17v/P17w/P17x/P17y/P17z/P18a/P18b/P18c/P18d/P18e/P18f/P18g/P18h/P18i/P18j/P18k/P18l/P18m/P18n/P18o/P18p/P18q/P18r/P18s/P18t/P18u/P18v/P18w/P18x/P18y/P18z/P19a/P19b/P19c/P19d/P19e/P19f/P19g/P19h/P19i/P19j/P19k/P19l/P19m/P19n/P19o/P19p/P19q/P19r/P19s/P19t/P19u/P19v/P19w/P19x/P19y/P19z/P20a/P20b/P20c/P20d/P20e/P20f/P20g/P20h/P20i/P20j/P20k/P20l/P20m/P20n/P20o/P20p/P20q/P20r/P20s/P20t/P20u/P20v/P20w/P20x/P20y/P20z/P21a/P21b/P21c/P21d/P21e/P21f/P21g/P21h/P21i/P21j/P21k/P21l/P21m/P21n/P21o/P21p/P21q/P21r/P21s/P21t/P21u/P21v/P21w/P21x/P21y/P21z/P22a/P22b/P22c/P22d/P22e/P22f/P22g/P22h/P22i/P22j/P22k/P22l/P22m/P22n/P22o/P22p/P22q/P22r/P22s/P22t/P22u/P22v/P22w/P22x/P22y/P22z/P23a/P23b/P23c/P23d/P23e/P23f/P23g/P23h/P23i/P23j/P23k/P23l/P23m/P23n/P23o/P23p/P23q/P23r/P23s/P23t/P23u/P23v/P23w/P23x/P23y/P23z/P24a/P24b/P24c/P24d/P24e/P24f/P24g/P24h/P24i/P24j/P24k/P24l/P24m/P24n/P24o/P24p/P24q/P24r/P24s/P24t/P24u/P24v/P24w/P24x/P24y/P24z/P25a/P25b/P25c/P25d/P25e/P25f/P25g/P25h/P25i/P25j/P25k/P25l/P25m/P25n/P25o/P25p/P25q/P25r/P25s/P25t/P25u/P25v/P25w/P25x/P25y/P25z/P26a/P26b/P26c/P26d/P26e/P26f/P26g/P26h/P26i/P26j/P26k/P26l/P26m/P26n/P26o/P26p/P26q/P26r/P26s/P26t/P26u/P26v/P26w/P26x/P26y/P26z/P27a/P27b/P27c/P27d/P27e/P27f/P27g/P27h/P27i/P27j/P27k/P27l/P27m/P27n/P27o/P27p/P27q/P27r/P27s/P27t/P27u/P27v/P27w/P27x/P27y/P27z/P28a/P28b/P28c/P28d/P28e/P28f/P28g/P28h/P28i/P28j/P28k/P28l/P28m/P28n/P28o/P28p/P28q/P28r/P28s/P28t/P28u/P28v/P28w/P28x/P28y/P28z/P29a/P29b/P29c/P29d/P29e/P29f/P29g/P29h/P29i/P29j/P29k/P29l/P29m/P29n/P29o/P29p/P29q/P29r/P29s/P29t/P29u/P29v/P29w/P29x/P29y/P29z/P30a/P30b/P30c/P30d/P30e/P30f/P30g/P30h/P30i/P30j/P30k/P30l/P30m/P30n/P30o/P30p/P30q/P30r/P30s/P30t/P30u/P30v/P30w/P30x/P30y/P30z/P31a/P31b/P31c/P31d/P31e/P31f/P31g/P31h/P31i/P31j/P31k/P31l/P31m/P31n/P31o/P31p/P31q/P31r/P31s/P31t/P31u/P31v/P31w/P31x/P31y/P31z/P32a/P32b/P32c/P32d/P32e/P32f/P32g/P32h/P32i/P32j/P32k/P32l/P32m/P32n/P32o/P32p/P32q/P32r/P32s/P32t/P32u/P32v/P32w/P32x/P32y/P32z/P33a/P33b/P33c/P33d/P33e/P33f/P33g/P33h/P33i/P33j/P33k/P33l/P33m/P33n/P33o/P33p/P33q/P33r/P33s/P33t/P33u/P33v/P33w/P33x/P33y/P33z/P34a/P34b/P34c/P34d/P34e/P34f/P34g/P34h/P34i/P34j/P34k/P34l/P34m/P34n/P34o/P34p/P34q/P34r/P34s/P34t/P34u/P34v/P34w/P34x/P34y/P34z/P35a/P35b/P35c/P35d/P35e/P35f/P35g/P35h/P35i/P35j/P35k/P35l/P35m/P35n/P35o/P35p/P35q/P35r/P35s/P35t/P35u/P35v/P35w/P35x/P35y/P35z/P36a/P36b/P36c/P36d/P36e/P36f/P36g/P36h/P36i/P36j/P36k/P36l/P36m/P36n/P36o/P36p/P36q/P36r/P36s/P36t/P36u/P36v/P36w/P36x/P36y/P36z/P37a/P37b/P37c/P37d/P37e/P37f/P37g/P37h/P37i/P37j/P37k/P37l/P37m/P37n/P37o/P37p/P37q/P37r/P37s/P37t/P37u/P37v/P37w/P37x/P37y/P37z/P38a/P38b/P38c/P38d/P38e/P38f/P38g/P38h/P38i/P38j/P38k/P38l/P38m/P38n/P38o/P38p/P38q/P38r/P38s/P38t/P38u/P38v/P38w/P38x/P38y/P38z/P39a/P39b/P39c/P39d/P39e/P39f/P39g/P39h/P39i/P39j/P39k/P39l/P39m/P39n/P39o/P39p/P39q/P39r/P39s/P39t/P39u/P39v/P39w/P39x/P39y/P39z/P40a/P40b/P40c/P40d/P40e/P40f/P40g/P40h/P40i/P40j/P40k/P40l/P40m/P40n/P40o/P40p/P40q/P40r/P40s/P40t/P40u/P40v/P40w/P40x/P40y/P40z/P41a/P41b/P41c/P41d/P41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Parent Sheet Set: 072875-CirWtr_TaskRsk_Plan_Profile_48x55PAUL_HELLER Individual File Path: C:\Dropbox\Work\FL\Jobs\cha_engineering\072875_clearwater\phase 2 & 4 & 5\cad files\Ph4_274A_072875_C3D_Civil\Sheets



GRATE INLET
 TOP ELEV=45.40'
 W (18" RCP) INV ELEV=39.64'

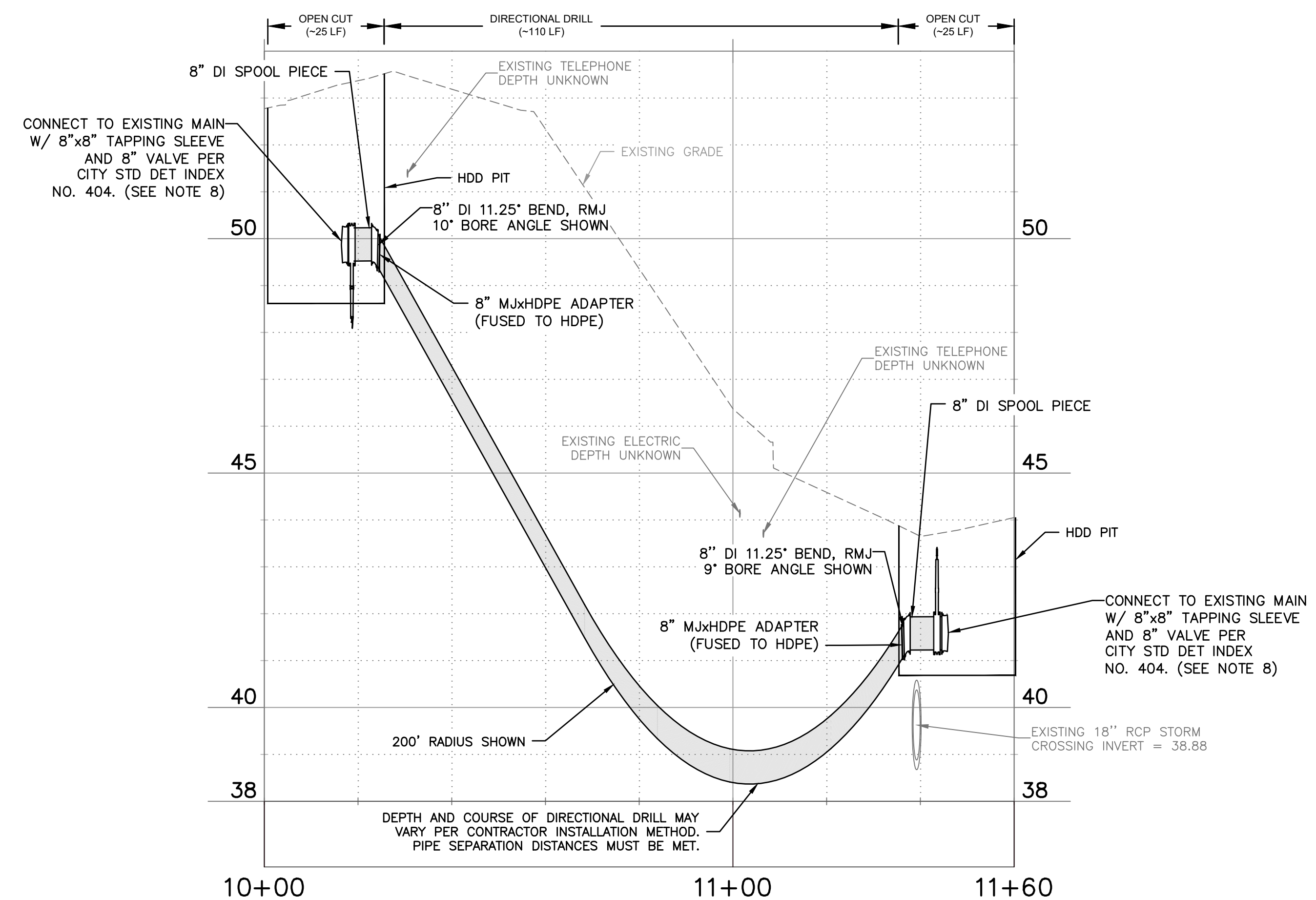


- GENERAL NOTES**
- MINIMUM SEPARATION BETWEEN PROPOSED WATER MAIN AND EXISTING GAS MAIN SHALL BE 3'.
 - DEFLECT PIPE AT JOINTS MAXIMUM 75% OF MANUFACTURERS ALLOWABLE DEFLECTION.
 - CONTRACTOR SHALL TEMPORARILY INSTALL AND MAINTAIN A TEMPORARY DRIVING SURFACE (ASPHALT MILLINGS, ETC.) WHEN REMOVING ANY DRIVEWAYS UNTIL THE DRIVEWAYS ARE PERMANENTLY RESTORED.
 - CONTRACTOR SHALL MAINTAIN ROADWAY ACCESS AT ALL TIMES.
 - INSTALL 1" RESIDENTIAL OR 2" COMMERCIAL SERVICE LINE AND PW METER BOX ADJACENT TO EACH EXISTING WATER METER/PARCEL (5' MIN SEPARATION), ON BOTH SIDES OF ROW WITH SHORT SERVICES AND LONG SERVICES WITH CASINGS, IN ACCORDANCE WITH CITY INDEX DETAILS. FOR NEW SERVICES, CONTRACTOR TO CONFIRM LOCATION AND PLACEMENT OF SERVICE METER BOXES WITH CITY INSPECTOR AND/OR CITY'S REPRESENTATIVE.
 - CONTRACTOR SHALL VERIFY LOCATION, MATERIAL, AND DEPTH OF EXISTING INFRASTRUCTURE PRIOR TO CONSTRUCTION.
 - CONTRACTOR SHALL MAINTAIN WATER SERVICE AT ALL TIMES TO CUSTOMERS. ANY INTERRUPTIONS SHALL BE COORDINATED WITH THE CITY WITH MINIMUM 10 DAY NOTICE.
 - ONLY THE CITY MAY TURN EXISTING VALVES. IF POTABLE WATER MAIN ISOLATION IS REQUIRED, THE CONTRACTOR SHALL NOTIFY THE CITY AND RPR INSPECTOR.
 - CONTRACTOR TO INSTALL TREE PROTECTION AS NECESSARY IN ACCORDANCE WITH CITY STANDARD DETAIL 909. CONTRACTOR SHALL COORDINATE WITH ARBORIST FOR PROPER COMPLETION OF TREE PROTECTION AND ROOT PRUNING IN ACCORDANCE WITH CITY SPECIFICATIONS.
 - CONTRACTOR TO COORDINATE WITH GAS UTILITY OWNER FOR ANY NECESSARY REQUIREMENTS DURING CONSTRUCTION.
 - CONTRACTOR SHALL VERIFY ALL CUSTOMERS/BUILDINGS HAVE WATER SERVICE PRIOR TO CUTTING AND CAPPING EXISTING WATER MAINS.
 - CONTRACTOR SHALL RECONNECT NEW WATER SERVICE LINES TO THE EXISTING METER LOCATION UNDER SUPERVISION OF THE CITY'S REPRESENTATIVE CONSTRUCTION INSPECTOR.
 - CONTRACTOR SHALL ADJUST ALL WATER METER(S) TO CURRENT GRADE.
 - CONTRACTOR SHALL RESTRAIN EXISTING MAINS AS NECESSARY IN ACCORDANCE WITH CITY STANDARD DETAIL 407. WHERE INSTALLATION OF RESTRAINTS MAY REQUIRE EXCAVATION OF ROADWAY, CONTRACTOR SHALL COORDINATE WITH CITY AND CITY'S REPRESENTATIVE TO CONFIRM RESTRAINING PRIOR TO INSTALLATION.
 - CONTRACTOR SHALL HAVE FIELD MEETING WITH THE CITY AND/OR RPR INSPECTOR PRIOR TO INSTALLATION OF ANY TEAMS INSERT VALVE. TO CONFIRM IF EXISTING VALVES MAY ISOLATE THE MAIN IN LIEU OF A TEAMS INSERT VALVE.
 - CONTRACTOR SHALL HAVE OR USE A CERTIFIED PLUMBING CONTRACTOR TO INSTALL THE CUSTOMER SIDE SERVICES AND SHALL OBTAIN CITY PLUMBING PERMITS.

STORM MANHOLE (ST-18)
 RIM ELEV=53.10'
 SE (15" RCP) INV ELEV=50.49'
 SW (4" VOP) INV ELEV=50.59'

STORM MANHOLE (ST-18)
 RIM ELEV=53.15'
 SE (15" RCP) INV ELEV=48.97'
 SW (4" VOP) INV ELEV=48.21'
 NW (15" RCP) INV ELEV=50.03'

GRATE INLET (ST-18)
 TOP ELEV=44.83'
 E (18" RCP) INV ELEV=39.47'
 S (18" RCP) INV ELEV=39.00'



LEGEND

- · · · · REMOVE EXISTING PIPING
- GROUT AND ABANDON EXISTING PIPING
- REMOVE AND REPLACE CONCRETE CURB AND GUTTER
- ▨ REMOVE AND REPLACE ASPHALT PAVEMENT, INCLUDING PAVEMENT MARKINGS
- ▩ MILL AND OVERLAY ASPHALT PAVEMENT
- ▧ REMOVE AND REPLACE CONCRETE DRIVEWAY
- ▦ REMOVE AND REPLACE CONCRETE SIDEWALK

NOTE: PATTERN ROTATIONS MAY DIFFER FROM LEGEND IN PLAN VIEW. PLEASE SEE QUANTITY TAKEOFF TABLE IN GENERAL DRAWINGS.

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SURVEYED BY:	DRAWN BY:
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CITY OF CLEARWATER
 POTABLE WATER PIPING IMPROVEMENTS - PHASE 2&4&5
 AREA 274A - SR 590
 PLAN & PROFILE

DWG NO:	274A-C01	FIELD BOOK:	N/A	SURVEYED BY:	ECHO UES	SCALE:	VERT. AS NOTED
CONTRACT NO.:	18-0040-UT	DATE DRAWN:	06/2023	DRAWN BY:	VVV/PH	HORIZ. AS NOTED	
JOB NO.:	072875	DESIGNED BY:	ESW/WTH	CHECKED BY:	JRV	SHEET NO.:	29 OF 64

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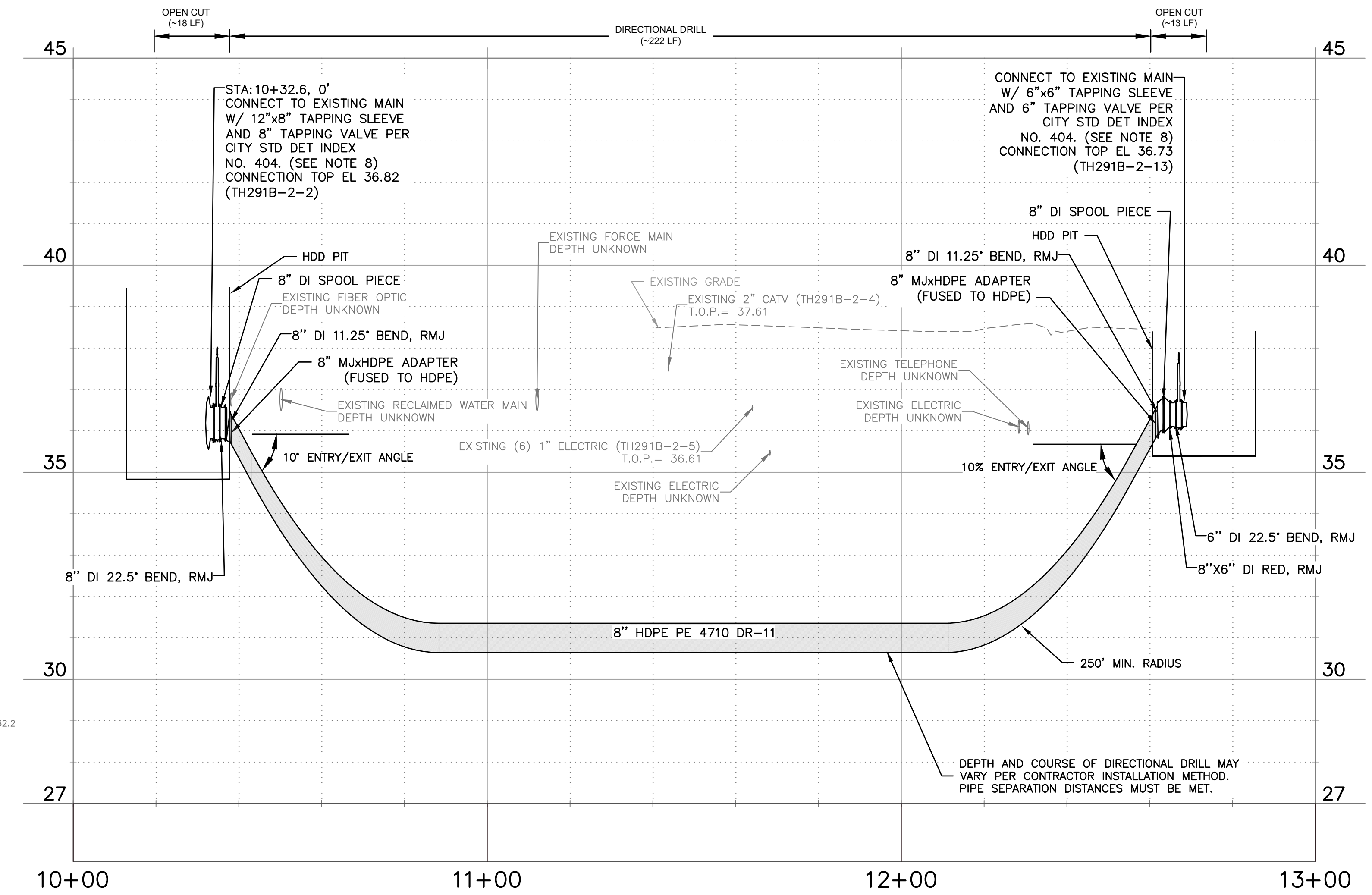
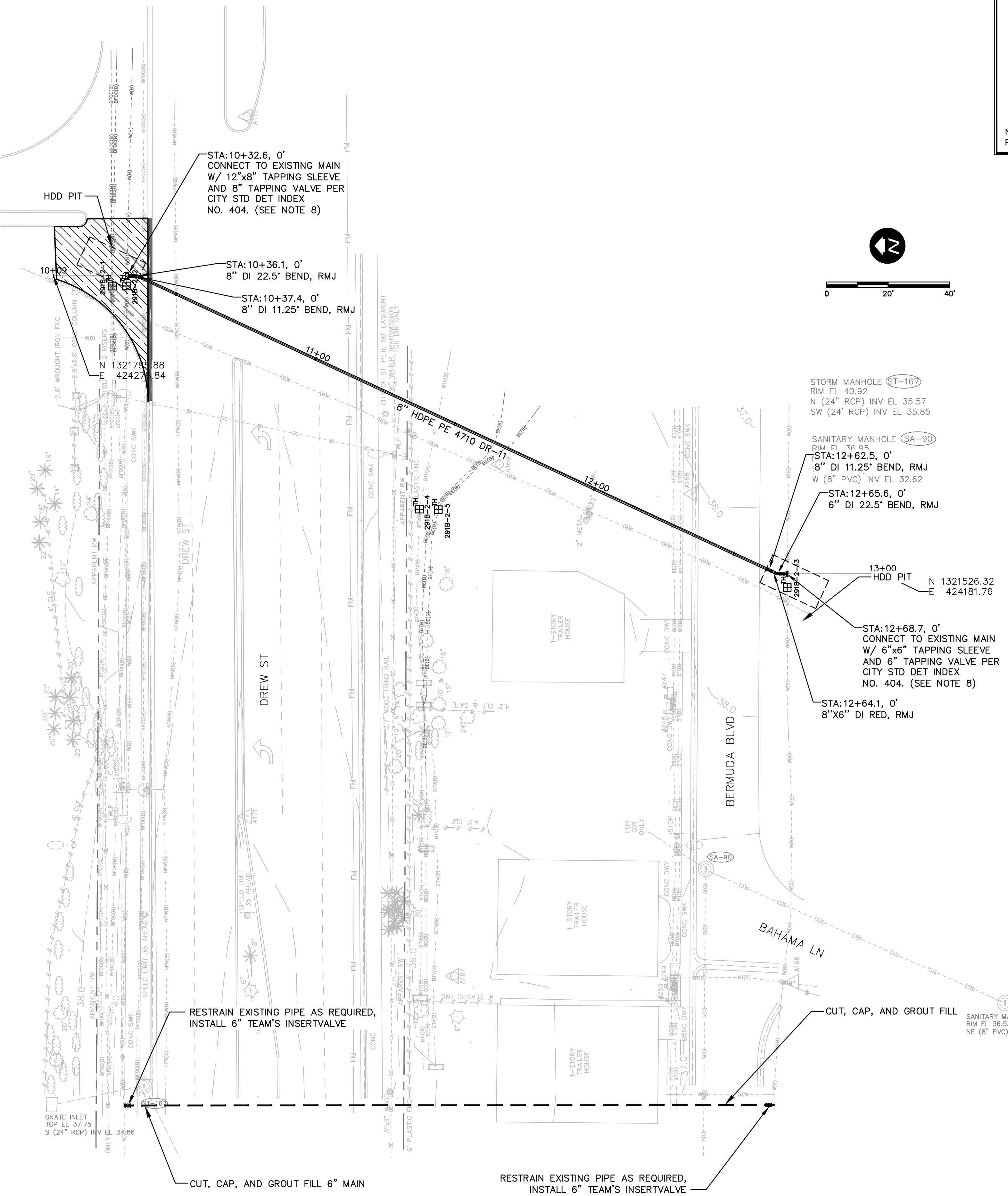
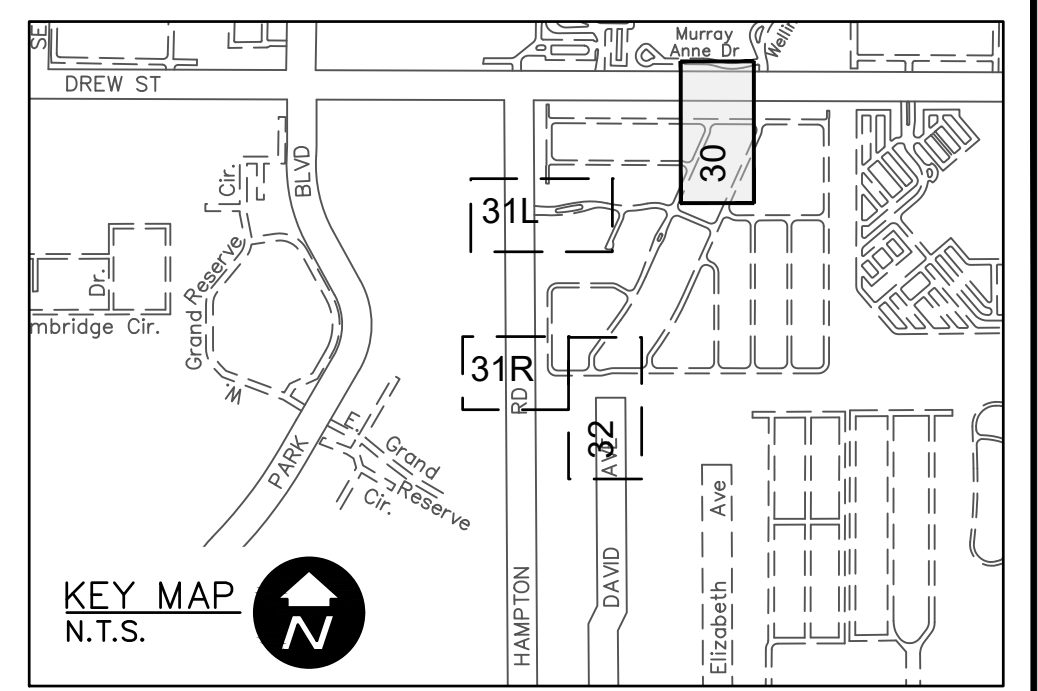
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LEGEND

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 - DEFLECT PIPE AT JOINTS MAXIMUM 75% OF MANUFACTURERS ALLOWABLE DEFLECTION.
 - CONTRACTOR SHALL TEMPORARILY INSTALL AND MAINTAIN A TEMPORARY DRIVING SURFACE ASPHALT MILLINGS, ETC.) WHEN REMOVING ANY DRIVEWAYS UNTIL THE DRIVEWAYS ARE PERMANENTLY RESTORED. CONTRACTOR SHALL MAINTAIN ROADWAY ACCESS AT ALL TIMES.
 - INSTALL 1" RESIDENTIAL OR 2" COMMERCIAL SERVICE LINE AND PW METER BOX ADJACENT TO EACH EXISTING WATER METER/PARCEL (5' MIN SEPARATION), ON BOTH SIDES OF ROW WITH SHORT SERVICES AND LONG SERVICES WITH CASINGS, IN ACCORDANCE WITH CITY INDEX DETAILS. FOR NEW SERVICES, CONTRACTOR TO CONFIRM LOCATION AND PLACEMENT OF SERVICE METER BOXES WITH CITY INSPECTOR AND/OR CITY'S REPRESENTATIVE.
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 - ONLY THE CITY MAY TURN EXISTING VALVES. IF POTABLE WATER MAIN ISOLATION IS REQUIRED, THE CONTRACTOR SHALL NOTIFY THE CITY AND RPR INSPECTOR.
 - CONTRACTOR TO INSTALL TREE PROTECTION AS NECESSARY IN ACCORDANCE WITH CITY STANDARD DETAIL 908. CONTRACTOR SHALL COORDINATE WITH ARBORIST FOR PROPER COMPLETION OF TREE PROTECTION AND ROOT PRUNING IN ACCORDANCE WITH CITY SPECIFICATIONS.
 - CONTRACTOR TO COORDINATE WITH GAS UTILITY OWNER FOR ANY NECESSARY REQUIREMENTS DURING CONSTRUCTION.
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 - CONTRACTOR SHALL HAVE OR USE A CERTIFIED PLUMBING CONTRACTOR TO INSTALL THE CUSTOMER SIDE SERVICES AND SHALL OBTAIN CITY PLUMBING PERMITS.



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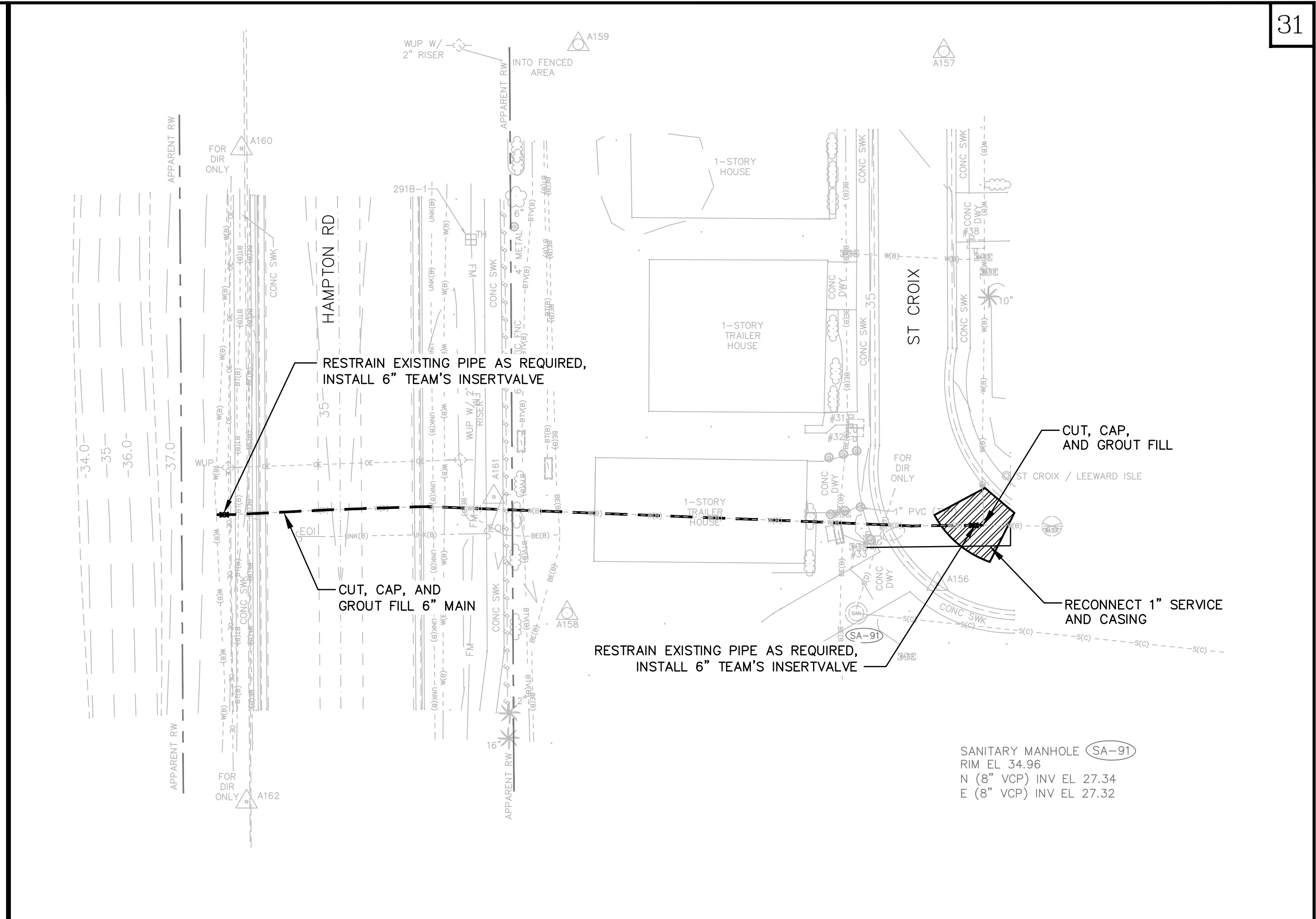
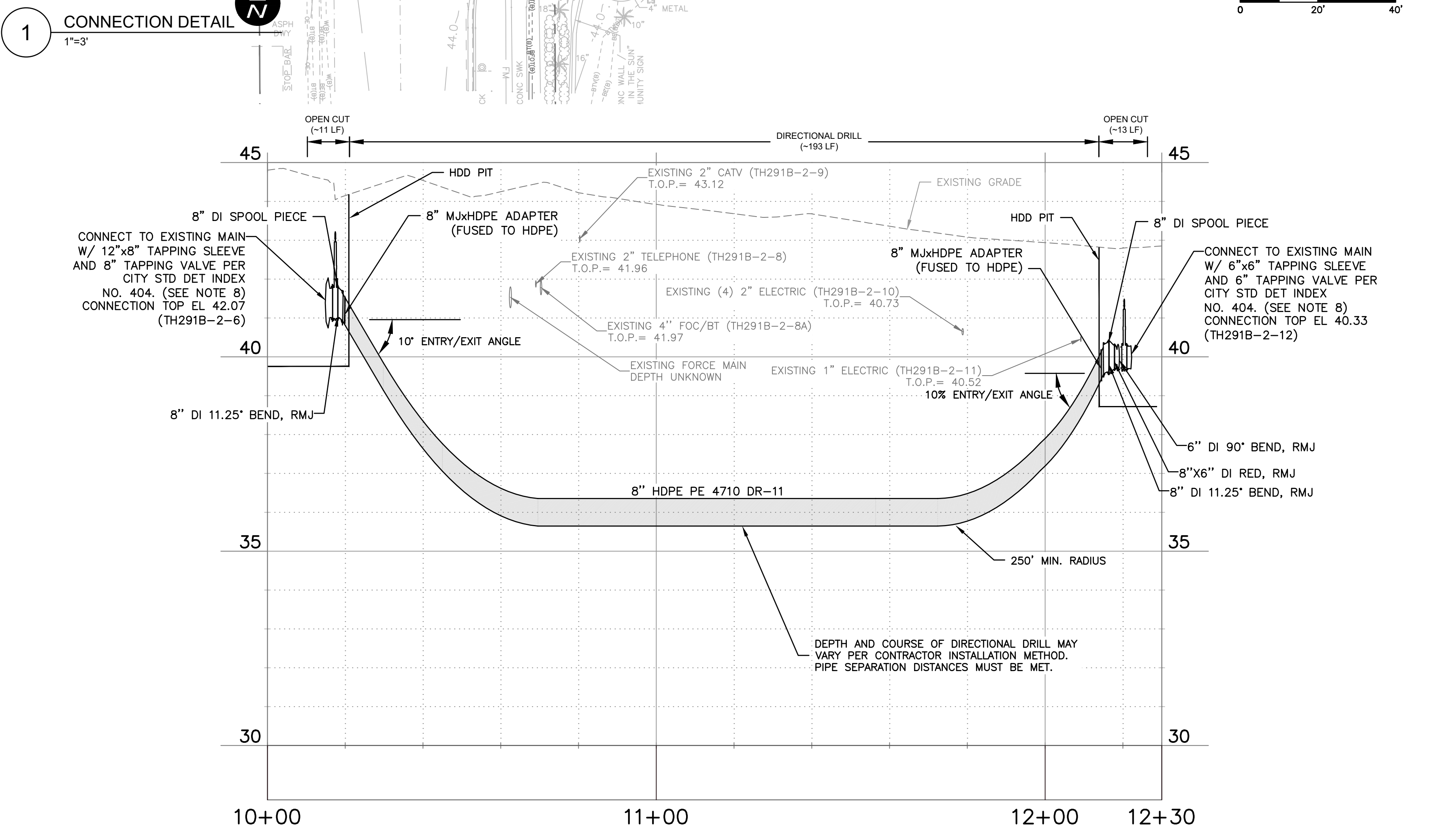
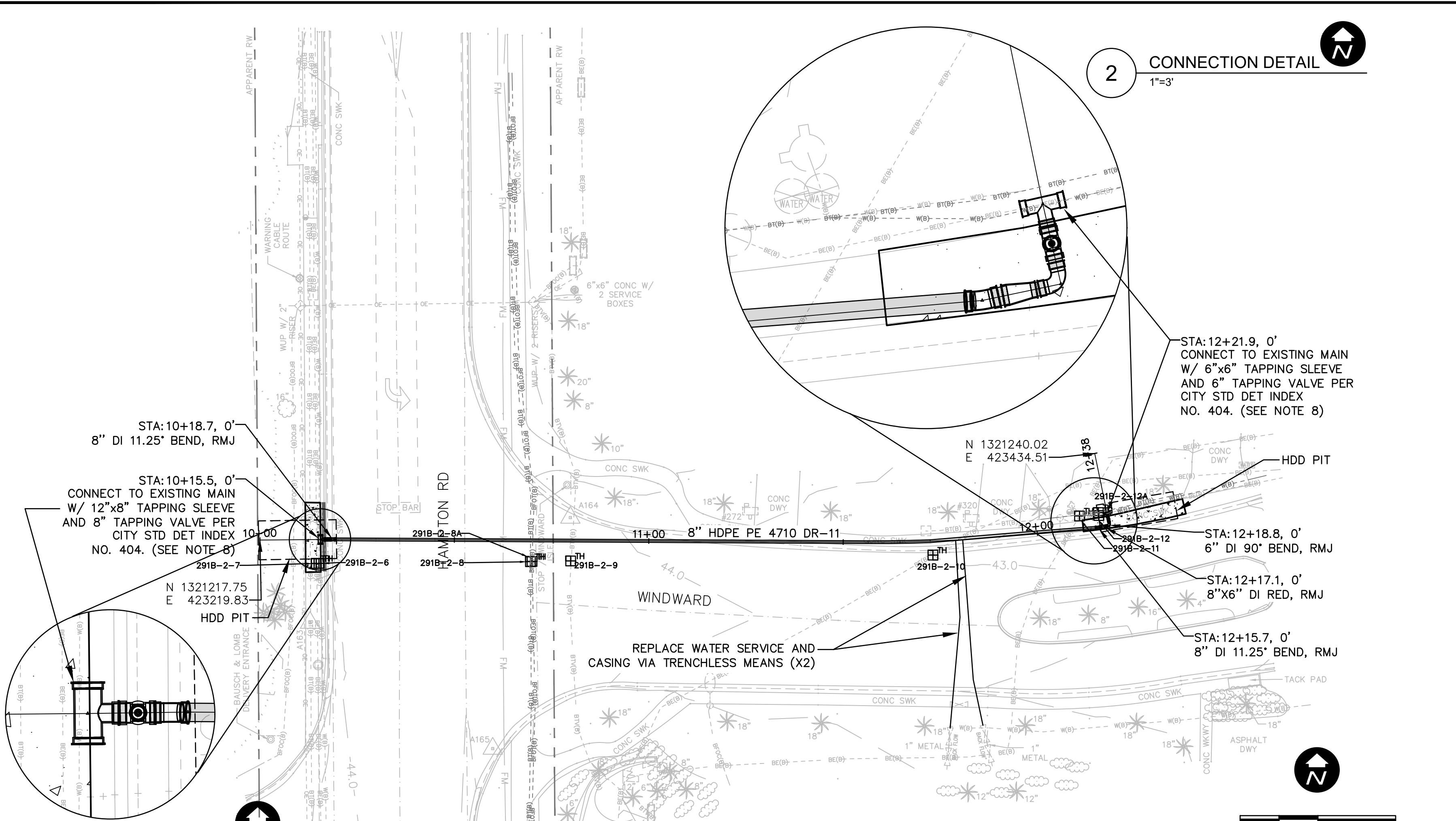
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AREA 291B - DREW ST AND HAMPTON RD
PLAN & PROFILE

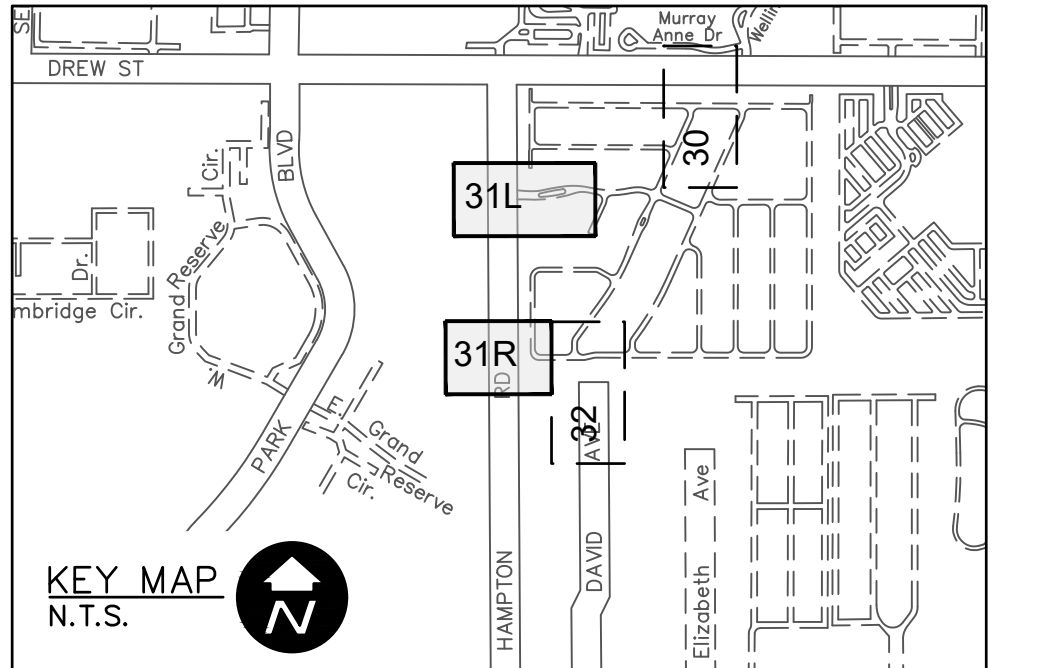
DWG NAME: 291B-C01	FIELD BOOK: N/A	SURVEYED BY: ECHO UES	SCALE: VERT. AS NOTED
CONTRACT NO.: 18-0040-UT	DATE DRAWN: 06/2023	DRAWN BY: VVV/PFH	HORIZ. AS NOTED
JOB NO.: 072875	DESIGNED BY: BSW/WTH	CHECKED BY: JRV	SHEET NO.: 30 OF 64

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LEGEND

XXXXXX	REMOVE EXISTING PIPING
---	GROUT AND ABANDON EXISTING PIPING
---	REMOVE AND REPLACE CONCRETE CURB AND GUTTER
///	REMOVE AND REPLACE ASPHALT PAVEMENT, INCLUDING PAVEMENT MARKINGS
///	MILL AND OVERLAY ASPHALT PAVEMENT
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NOTE: PATTERN ROTATIONS MAY DIFFER FROM LEGEND IN PLAN VIEW. PLEASE SEE QUANTITY TAKEOFF TABLE IN GENERAL DRAWINGS.

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BY	DATE
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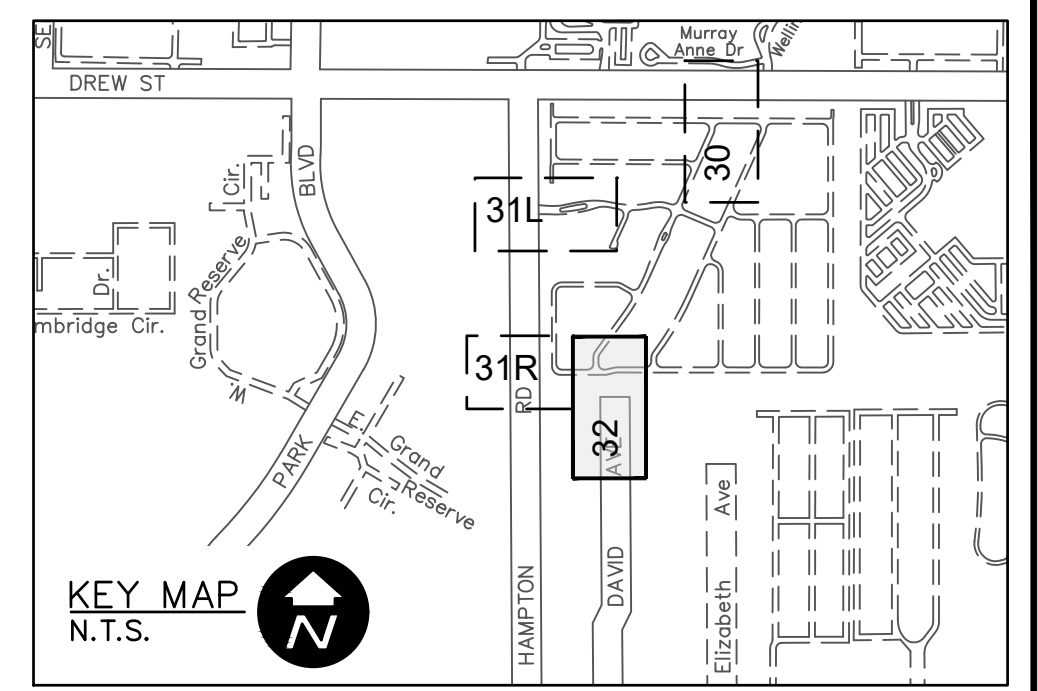
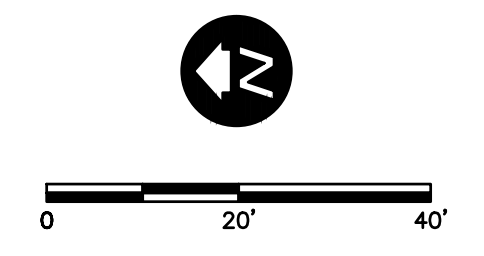
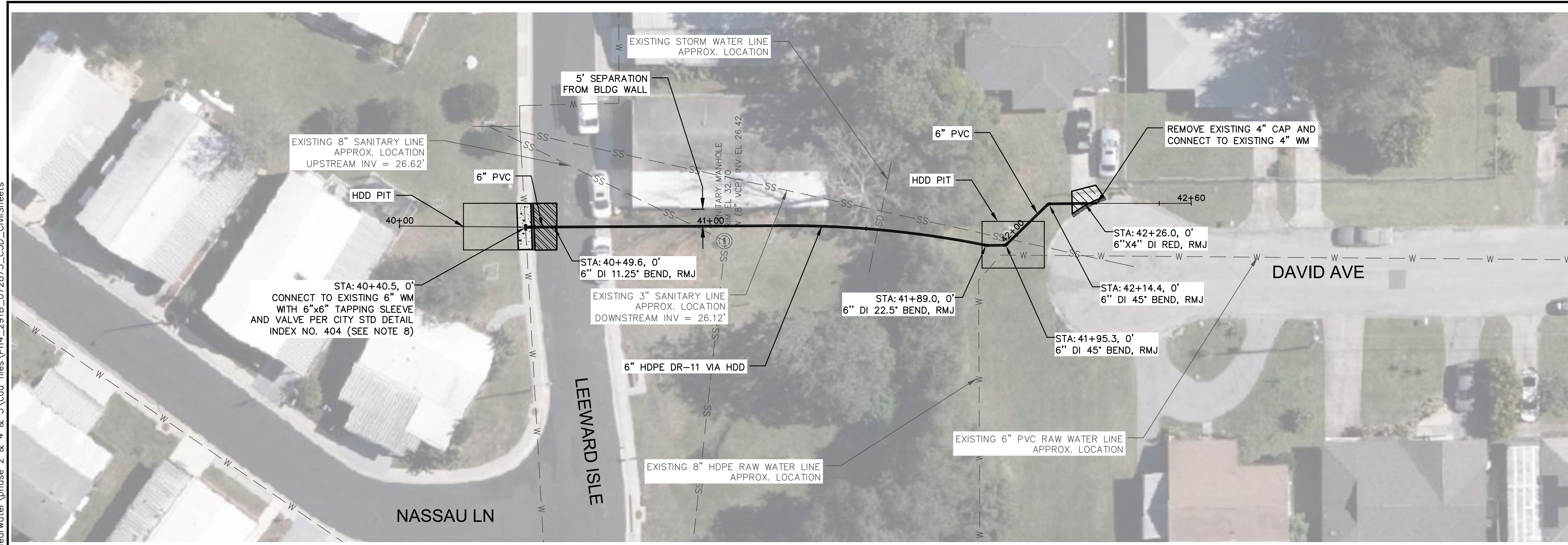
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AREA 291B - DREW ST AND HAMPTON RD
PLAN & PROFILE

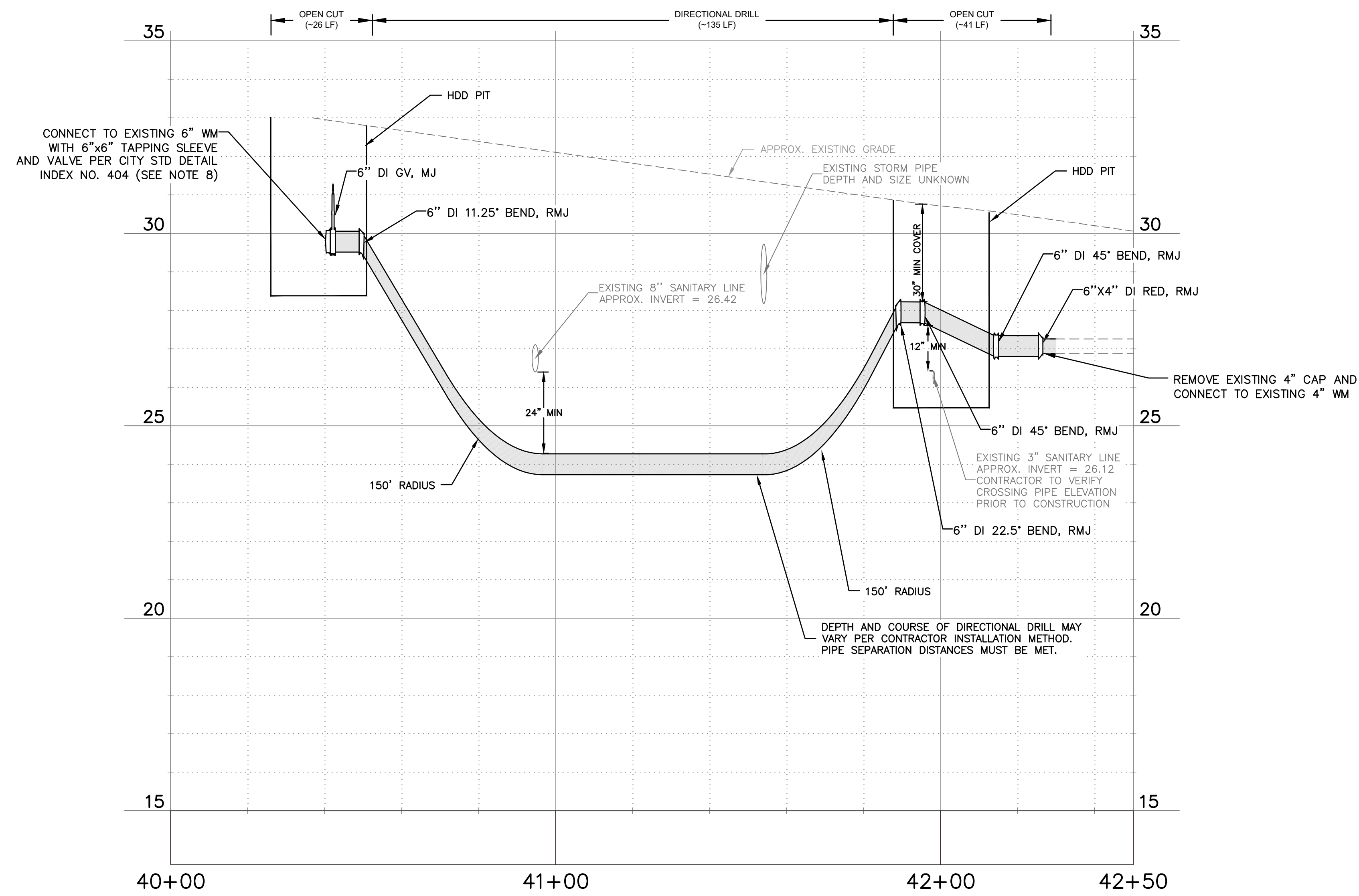
DWG NAME:	291B-C02	FIELD BOOK:	N/A	SURVEYED BY:	ECHO UES	SCALE:	VERT. AS NOTED
CONTRACT NO.:	18-0040-UT	DATE DRAWN:	06/2023	DRAWN BY:	VVV/PPH	HORIZ. AS NOTED	
JOB NO.:	072875	DESIGNED BY:	ESW/WTH	CHECKED BY:	JRV	SHEET NO.:	31 OF 64

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LEGEND	
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---	GROUT AND ABANDON EXISTING PIPING
---	REMOVE AND REPLACE CONCRETE CURB AND GUTTER
▨	REMOVE AND REPLACE ASPHALT PAVEMENT, INCLUDING PAVEMENT MARKINGS
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NOTE: PATTERN ROTATIONS MAY DIFFER FROM LEGEND IN PLAN VIEW. PLEASE SEE QUANTITY TAKEOFF TABLE IN GENERAL DRAWINGS.

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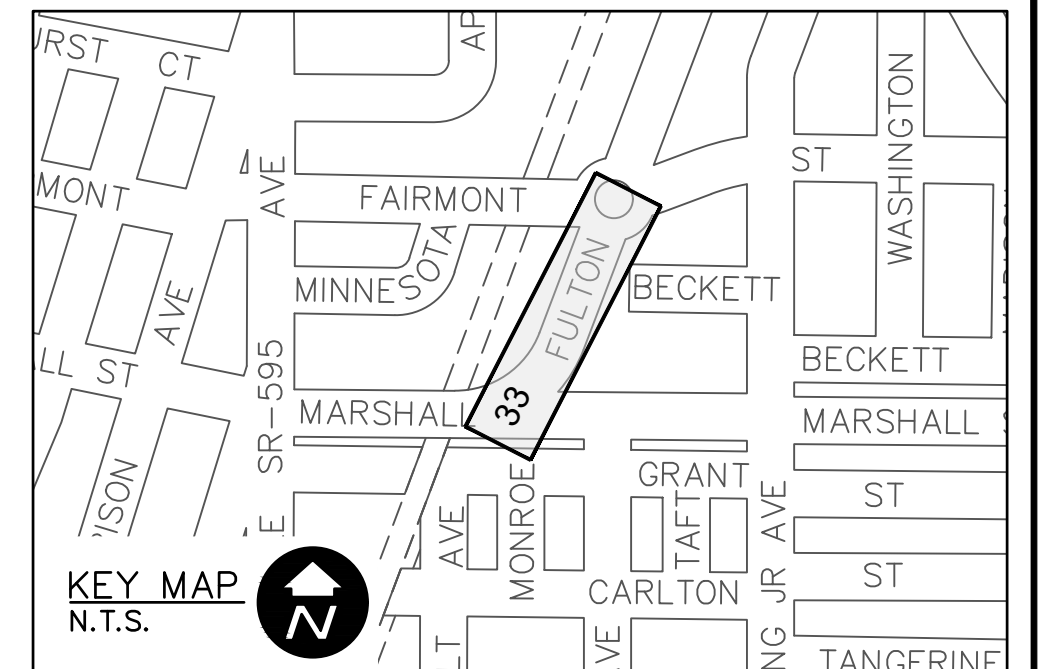
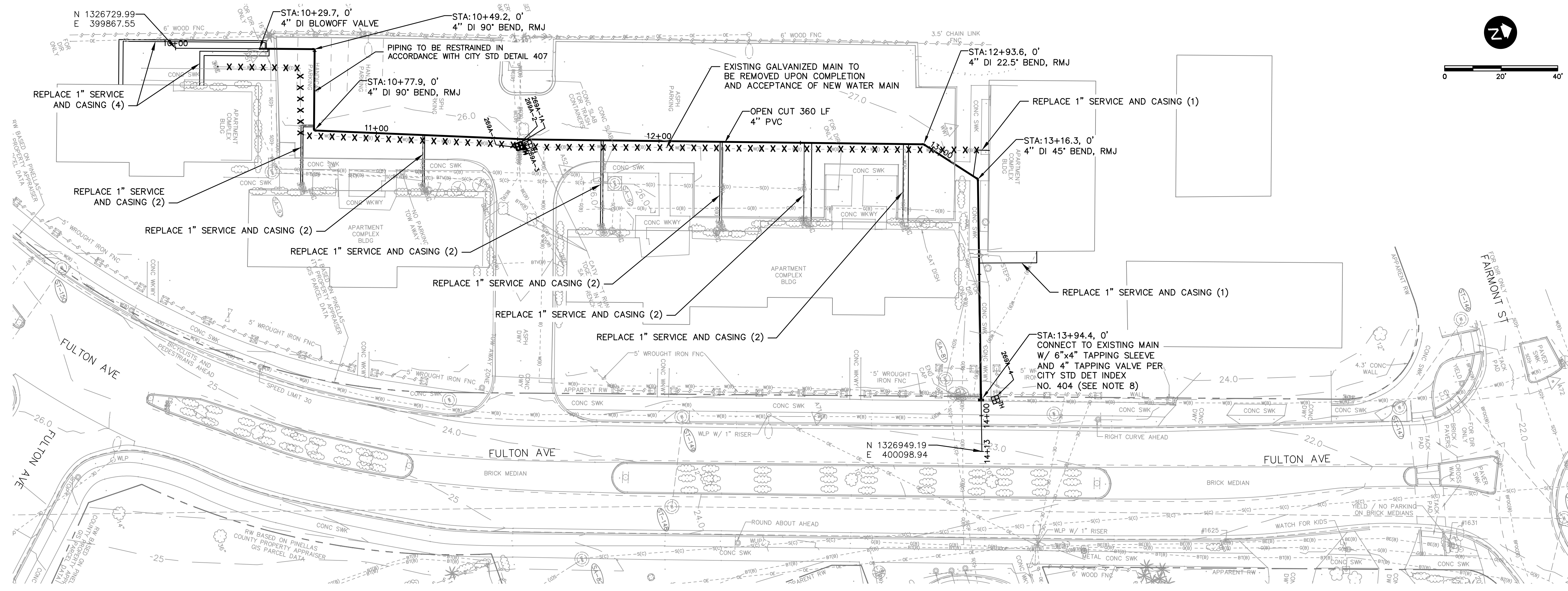
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 CLEARWATER, FL 33756



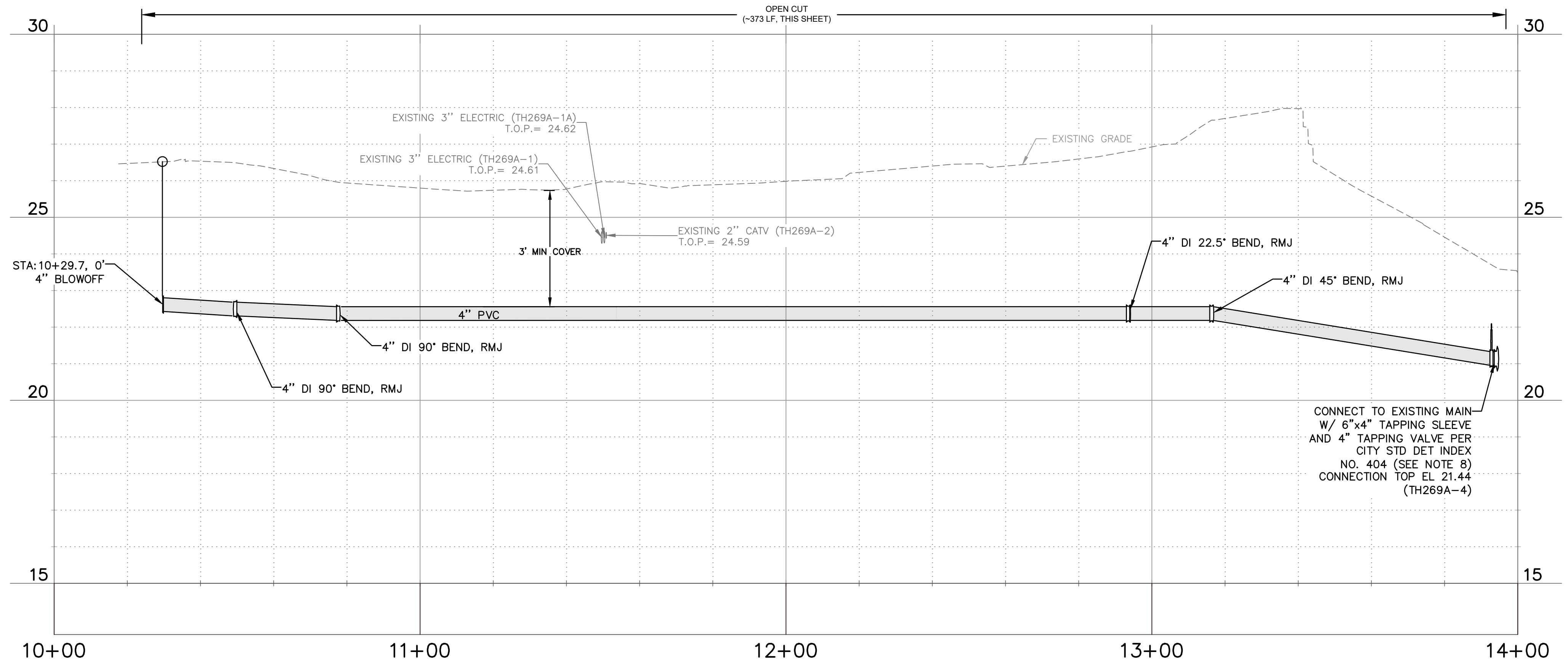
CITY OF CLEARWATER
POTABLE WATER PIPING IMPROVEMENTS - PHASE 2&4&5
 AREA 291B - LEEWARD ISLE AND DAVID AVENUE
 PLAN VIEW

DWG NO.: 291B-C03	FIELD BOOK: N/A	SURVEYED BY: ECHO UES	SCALE: VERT. AS NOTED
CONTRACT NO.: 18-0040-UT	DATE DRAWN: 06/2023	DRAWN BY: VVV/PFH	HORIZ. AS NOTED
JOB NO.: 072875	DESIGNED BY: ESW/WTH	CHECKED BY: JRV	SHEET NO.: 32 OF 64

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- - - - -	GROUT AND ABANDON EXISTING PIPING
- - - - -	REMOVE AND REPLACE CONCRETE CURB AND GUTTER
[Hatched Pattern]	REMOVE AND REPLACE ASPHALT PAVEMENT, INCLUDING PAVEMENT MARKINGS
[Hatched Pattern]	MILL AND OVERLAY ASPHALT PAVEMENT
[Cross-hatched Pattern]	REMOVE AND REPLACE CONCRETE DRIVEWAY
[Dotted Pattern]	REMOVE AND REPLACE CONCRETE SIDEWALK

NOTE: PATTERN ROTATIONS MAY DIFFER FROM LEGEND IN PLAN VIEW. PLEASE SEE QUANTITY TAKEOFF TABLE IN GENERAL DRAWINGS.

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REVIEWED BY:	DATE:
PROJECT ENGINEER:	DATE:
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BY	DATE

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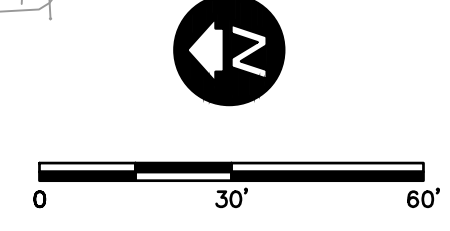
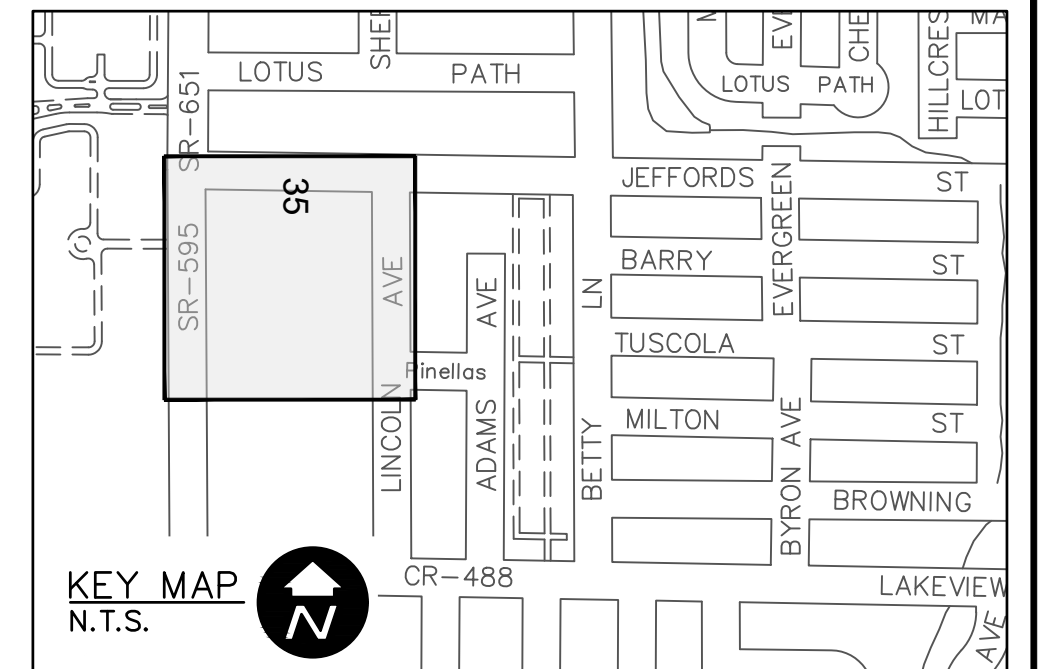
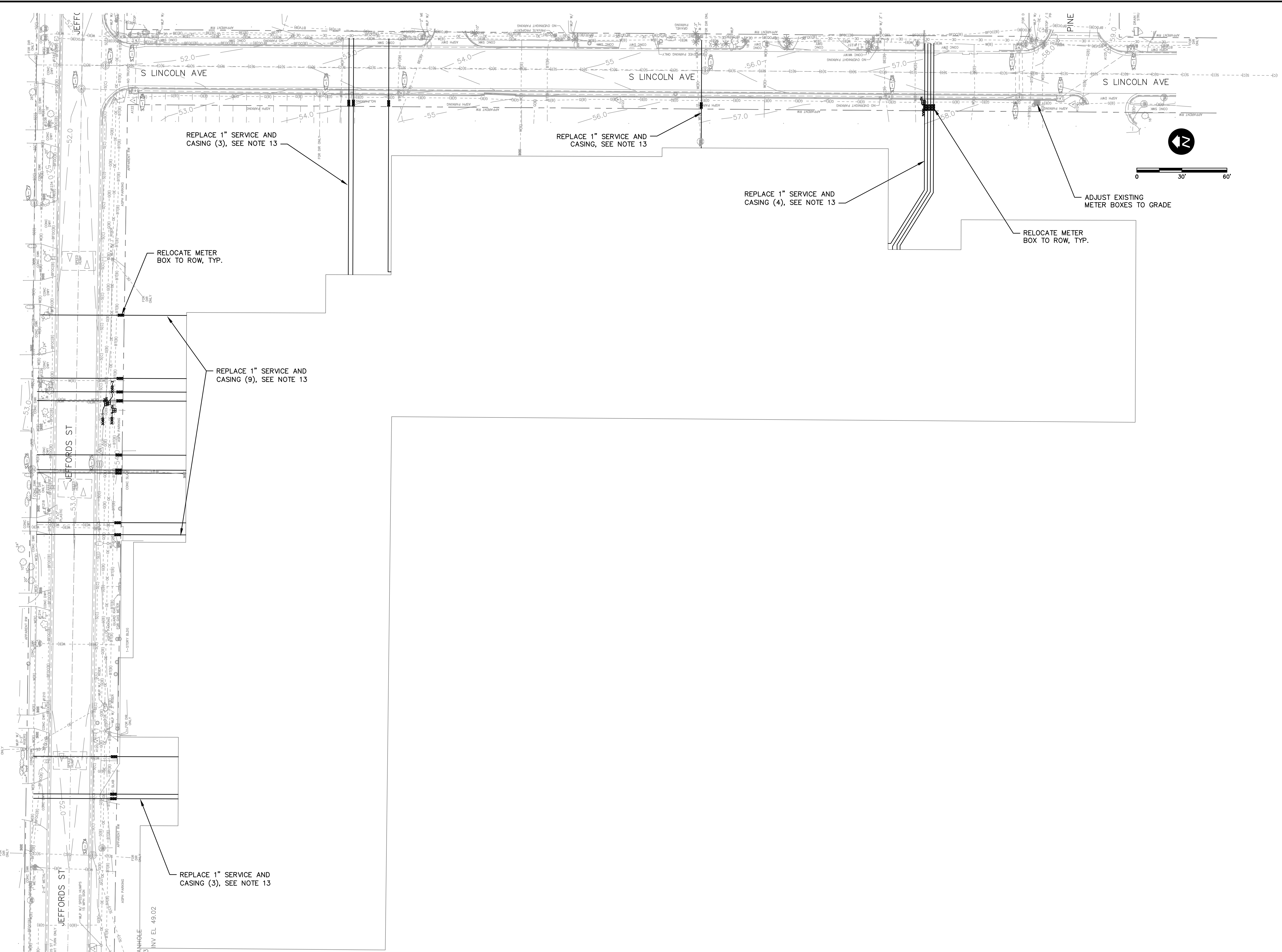
CITY OF CLEARWATER
 POTABLE WATER PIPING IMPROVEMENTS - PHASE 2&4&5
 AREA 269A - FULTON AVE
 PLAN & PROFILE

DWG NAME: 269A-C01	FIELD BOOK: N/A	SURVEYED BY: ECHO UES	SCALE: VERT. AS NOTED
CONTRACT NO.: 18-0040-UT	DATE DRAWN: 06/2023	DRAWN BY: VVV/PH	HORIZ. AS NOTED
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 TEL: (813) 549-8919
 CERTIFICATE OF AUTHORIZATION #28386

Parent Sheet Set: 072875-CirWtr Task Rk 2 7/18/23 4:55 PAUL HELLER Rev on: 2/22/2023 5:08 PM Individual File Path: C:\Dropbox\Work\FL\Jobs\cha engineering\072875 clearwater\phase 2 & 4 & 5\cad files\Ph4_306B_072875_C3D_Civil\Sheets



- GENERAL NOTES**
- MINIMUM SEPARATION BETWEEN PROPOSED WATER MAIN AND EXISTING GAS MAIN SHALL BE 3'.
 - DEFLECT PIPE AT JOINTS MAXIMUM 75% OF MANUFACTURERS ALLOWABLE DEFLECTION.
 - CONTRACTOR SHALL TEMPORARILY INSTALL AND MAINTAIN A TEMPORARY DRIVING SURFACE ASPHALT MILLINGS, ETC.) WHEN REMOVING ANY DRIVEWAYS UNTIL THE DRIVEWAYS ARE PERMANENTLY RESTORED.
 - CONTRACTOR SHALL MAINTAIN ROADWAY ACCESS AT ALL TIMES.
 - INSTALL 1" RESIDENTIAL OR 2" COMMERCIAL SERVICE LINE AND PW METER BOX ADJACENT TO EACH EXISTING WATER METER/PARCEL (5' MIN SEPARATION), ON BOTH SIDES OF ROW WITH SHORT SERVICES AND LONG SERVICES WITH CASINGS, IN ACCORDANCE WITH CITY INDEX DETAILS. FOR NEW SERVICES, CONTRACTOR TO CONFIRM LOCATION AND PLACEMENT OF SERVICE METER BOXES WITH CITY INSPECTOR AND/OR CITY'S REPRESENTATIVE.
 - CONTRACTOR SHALL VERIFY LOCATION, MATERIAL, AND DEPTH OF EXISTING INFRASTRUCTURE PRIOR TO CONSTRUCTION.
 - CONTRACTOR SHALL MAINTAIN WATER SERVICE AT ALL TIMES TO CUSTOMERS. ANY INTERRUPTIONS SHALL BE COORDINATED WITH THE CITY WITH MINIMUM 10 DAY NOTICE.
 - ONLY THE CITY MAY TURN EXISTING VALVES. IF POTABLE WATER MAIN ISOLATION IS REQUIRED, THE CONTRACTOR SHALL NOTIFY THE CITY AND RPR INSPECTOR.
 - CONTRACTOR TO INSTALL TREE PROTECTION AS NECESSARY IN ACCORDANCE WITH CITY STANDARD DETAIL 909. CONTRACTOR SHALL COORDINATE WITH ARBORIST FOR PROPER COMPLETION OF TREE PROTECTION AND ROOT PRUNING IN ACCORDANCE WITH CITY SPECIFICATIONS.
 - CONTRACTOR TO COORDINATE WITH GAS UTILITY OWNER FOR ANY NECESSARY REQUIREMENTS DURING CONSTRUCTION.
 - CONTRACTOR SHALL VERIFY ALL CUSTOMERS/BUILDINGS HAVE WATER SERVICE PRIOR TO CUTTING AND CAPPING EXISTING WATER MAINS.
 - CONTRACTOR SHALL RECONNECT NEW WATER SERVICE LINES TO THE EXISTING METER LOCATION UNDER SUPERVISION OF THE CITY'S REPRESENTATIVE CONSTRUCTION INSPECTOR.
 - CONTRACTOR SHALL ADJUST ALL WATER METER(S) TO CURRENT GRADE.
 - CONTRACTOR SHALL RESTRAIN EXISTING MAINS AS NECESSARY IN ACCORDANCE WITH CITY STANDARD DETAIL 407. WHERE INSTALLATION OF RESTRAINTS MAY REQUIRE EXCAVATION OF ROADWAY, CONTRACTOR SHALL COORDINATE WITH CITY AND CITY'S REPRESENTATIVE TO CONFIRM RESTRAINING PRIOR TO INSTALLATION.
 - CONTRACTOR SHALL HAVE FIELD MEETING WITH THE CITY AND/OR RPR INSPECTOR PRIOR TO INSTALLATION OF ANY TEAM'S INSERT VALVE. TO CONFIRM IF EXISTING VALVES MAY ISOLATE THE MAIN IN LIEU OF A TEAM'S INSERT VALVE.
 - CONTRACTOR SHALL HAVE OR USE A CERTIFIED PLUMBING CONTRACTOR TO INSTALL THE CUSTOMER SIDE SERVICES AND SHALL OBTAIN CITY PLUMBING PERMITS.

- SHEET SPECIFIC NOTES**
- CONTRACTOR TO INSTALL METER BOX AT RIGHT OF WAY FOR INSTALLATION OF NEW SERVICE LINE TO EXISTING CONNECTION.
 - UPON COMPLETION AND ACCEPTANCE OF RELOCATED WATER SERVICES, EXISTING 2" GALVANIZED MAIN SHALL BE CUT, CAPPED, AND GROUT FILLED.

RECORD DRAWINGS	
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REVIEWED BY:	PROJECT ENGINEER
APPROVED BY:	DATE
	DATE

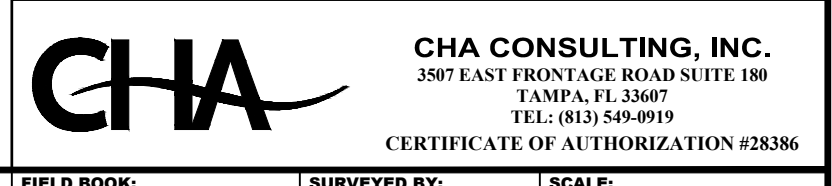
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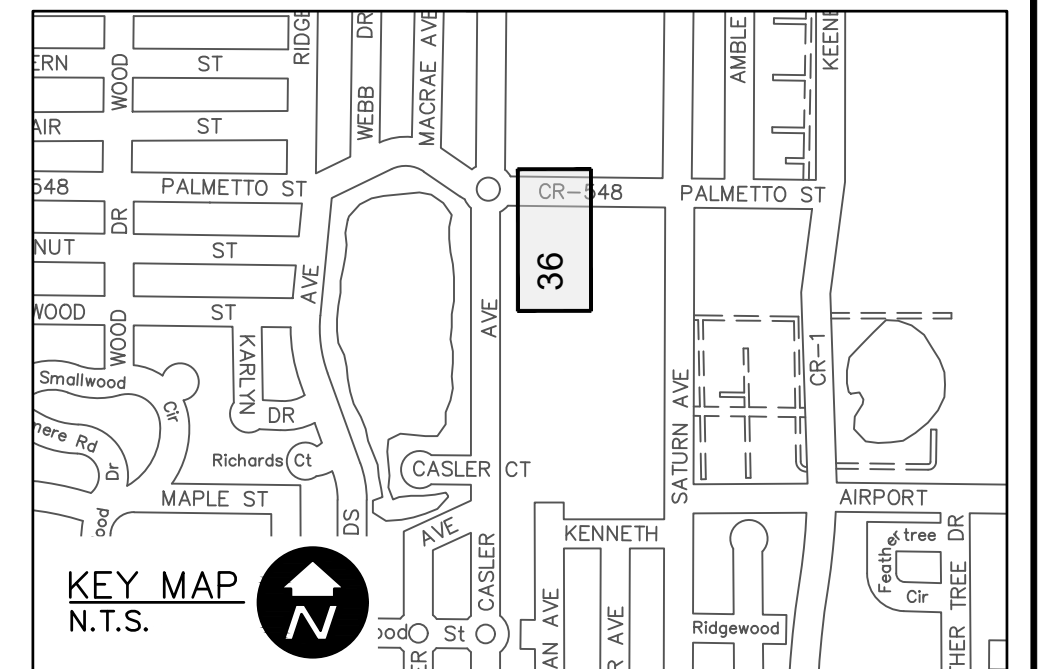
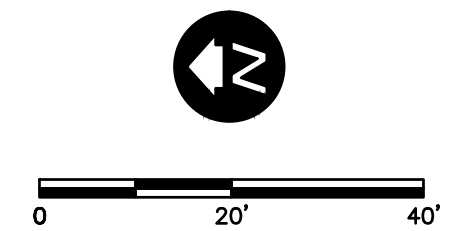
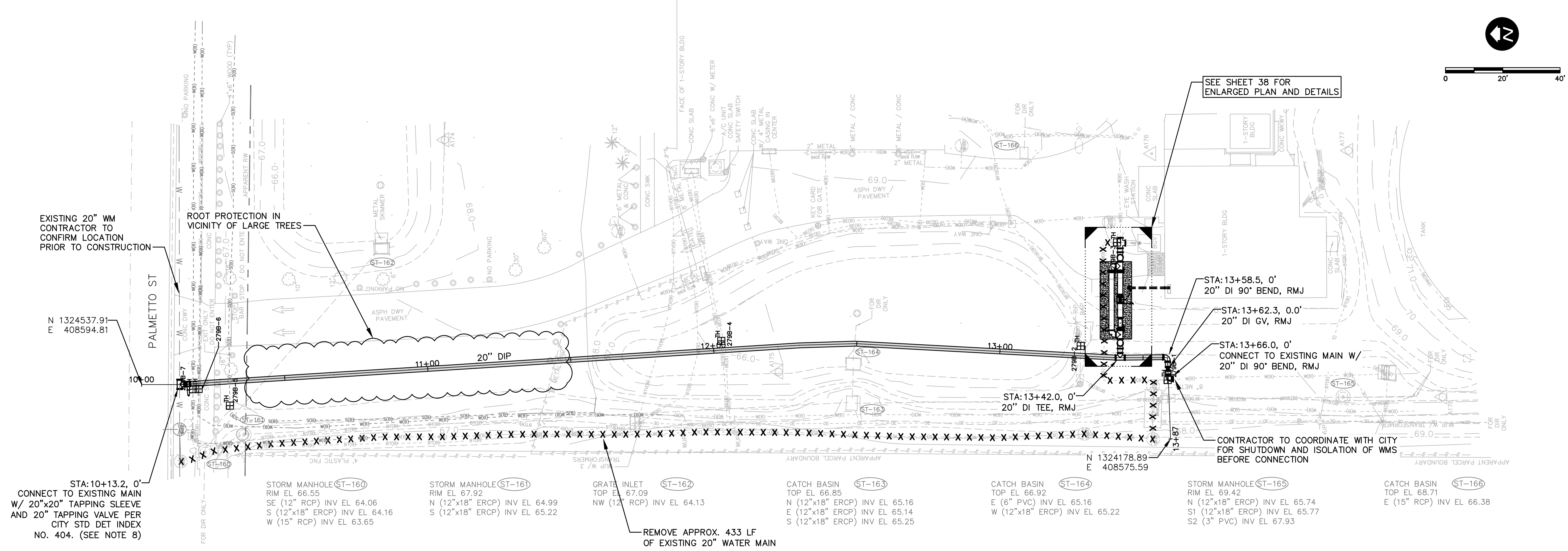
CITY OF CLEARWATER
POTABLE WATER PIPING IMPROVEMENTS - PHASE 2&4&5
 AREA 306B - JEFFORDS ST AND S LINCOLN AVE
 SERVICE LINE REPLACEMENTS

DWG NAME:	FIELD BOOK:	SURVEYED BY:	SCALE:
306B-C01	N/A	ECHO UES	VERT. AS NOTED
CONTRACT NO.: 18-0040-UT	DATE DRAWN: 06/2023	DRAWN BY: VVV/PH	HORIZ. AS NOTED
JOB NO.: 072875	DESIGNED BY: ESW/WTH	CHECKED BY: JRV	SHEET NO.: 35 OF 64

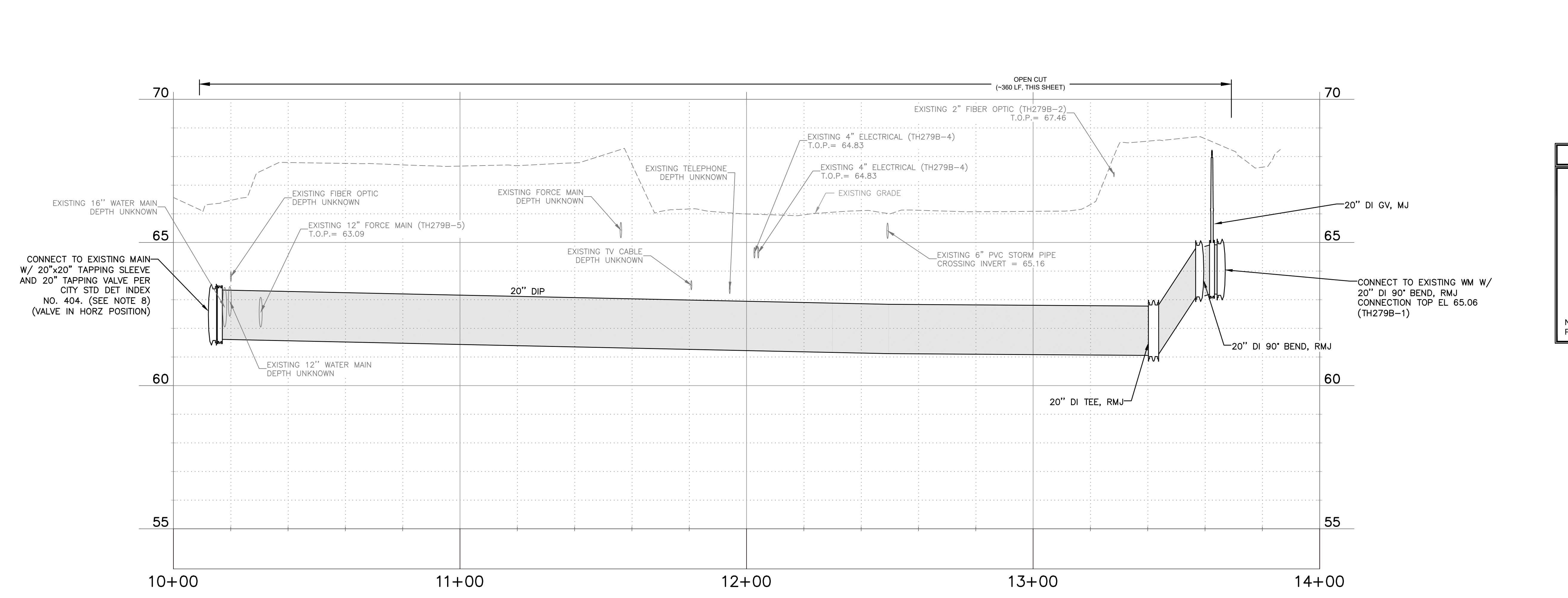
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LEGEND

- X X X X X X X X - REMOVE EXISTING PIPING
- GROUT AND ABANDON EXISTING PIPING
- REMOVE AND REPLACE CONCRETE CURB AND GUTTER
- REMOVE AND REPLACE ASPHALT PAVEMENT, INCLUDING PAVEMENT MARKINGS
- MILL AND OVERLAY ASPHALT PAVEMENT
- REMOVE AND REPLACE CONCRETE DRIVEWAY
- REMOVE AND REPLACE CONCRETE SIDEWALK

NOTE: PATTERN ROTATIONS MAY DIFFER FROM LEGEND IN PLAN VIEW. PLEASE SEE QUANTITY TAKEOFF TABLE IN GENERAL DRAWINGS.

RECORD DRAWINGS	
SURVEYED BY:	DRAWN BY:
REVIEWED BY:	DATE:
PROJECT ENGINEER:	DATE:
APPROVED BY:	DATE:

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PUBLIC WORKS DEPARTMENT -
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**CITY OF CLEARWATER
POTABLE WATER PIPING IMPROVEMENTS - PHASE 2&4&5
AREA 279B - PALMETTO ST
PLAN & PROFILE**

DWG NAME:	FIELD BOOK:	SURVEYED BY:	SCALE:
279B-C01	N/A	ECHO UES	VERT. AS NOTED
CONTRACT NO.:	DATE DRAWN:	DRAWN BY:	HORIZ. AS NOTED
18-0040-UT	06/2023	VVV/PPH	
JOB NO.:	DESIGNED BY:	CHECKED BY:	SHEET NO.:
072875	ESW/WTH	JRV	36 OF 64

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CHA CONSULTING, INC.
3507 EAST FRONTAGE ROAD SUITE 100
TAMPA, FL 33607
TEL: (813) 549-8919
CERTIFICATE OF AUTHORIZATION #28386

GENERAL STRUCTURAL NOTES

GENERAL CONDITIONS

- ALL STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE MECHANICAL, CIVIL, ARCHITECTURAL, ELECTRICAL, HVAC, PLUMBING AND SHOP DRAWINGS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL REVIEW AND VERIFY DIMENSIONS SHOWN IN ALL PLANS AND REVIEW ALL FIELD CONDITIONS THAT MAY AFFECT THE WORK DEPICTED ON THE DRAWINGS. SHOULD DISCREPANCIES APPEAR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING TO OBTAIN ENGINEER'S CLARIFICATION BEFORE COMMENCING WITH THE WORK.
- FOR ALL ITEMS EMBEDDED IN OR PASSING THROUGH CONCRETE, THE CONTRACTOR SHALL INITIALLY REFER TO MECHANICAL, HVAC, AND PLUMBING DRAWINGS FOR TYPE, SIZE, LOCATION, AND SPECIAL INSTALLATION REQUIREMENTS FOR THESE ITEMS.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PROTECT EXISTING STRUCTURES FROM DAMAGE WHEN WORKING IN AND AROUND EXISTING STRUCTURES WHILE PERFORMING WORK SUCH AS DEMOLITION, FOUNDATION EXCAVATIONS, AND OTHERS.
- SIZE AND LOCATION OF EQUIPMENT PADS AND ANCHOR BOLTS SHALL BE PER EQUIPMENT MANUFACTURER'S REQUIREMENTS.
- ANY EQUIPMENT THAT MAY INDUCE VIBRATION TO THE STRUCTURE SHALL BE ADEQUATELY ISOLATED FROM THE STRUCTURE.
- ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRUED TO APPLY TO ANY SIMILAR SITUATION ELSEWHERE ON THE PROJECT, EXCEPT WHERE A DIFFERENT DETAIL IS SHOWN.

DESIGN CRITERIA

BUILDING CODES AND REFERENCES:

- FLORIDA BUILDING CODE, SEVENTH EDITION (2020)
- REINFORCED CONCRETE:
 - ALL STRUCTURES: ACI 318-14 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"
- STRUCTURAL STEEL: AISC MANUAL OF STEEL CONSTRUCTION, 15TH EDITION
- ALUMINUM: ADM1-2015, ALUMINUM DESIGN MANUAL
- LIVE LOADS:

SLABS ON GRADE	300 PSF
----------------	---------
- WIND DESIGN CRITERIA:

RISK CATEGORY	III
ULTIMATE DESIGN WIND SPEED, V _{ULT}	145 MPH
NOMINAL DESIGN WIND SPEED, V _{ASD}	112 MPH
EXPOSURE CATEGORY	C

FOUNDATIONS

- ALLOWABLE SOIL BEARING PRESSURE USE FOR DESIGN IS LIMITED TO 2,000 PSF. CLASS 3 FOUNDATION MATERIAL PER FBC TABLE 1806.2 HAS ASSUMED FOR DESIGN.

CONCRETE (CAST-IN-PLACE)

- ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 318 REQUIREMENTS.
- ALL CONCRETE SHALL BE AIR-ENTRAINED WITH A MINIMUM OF 4,000 PSI COMPRESSIVE STRENGTH AT 28 DAYS UNLESS OTHERWISE NOTED.
- WATER REDUCING AGENT SHALL BE IN ACCORDANCE WITH ASTM C494.
- ALL CONCRETE SURFACES EXPOSED TO AIR, UNLESS OTHERWISE NOTED IN THE SPECIFICATIONS, SHALL BE TREATED WITH AN APPROPRIATE CURING METHOD AS SOON AS FINISHING IS COMPLETED OR FORMS ARE REMOVED.
- ALL EXPOSED CORNERS SHALL HAVE A MINIMUM CHAMFER OF 3/4" UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL OBTAIN ENGINEER'S APPROVAL FOR THE LOCATIONS OF CONSTRUCTION JOINTS THAT ARE NOT SHOWN ON THE DRAWINGS.

REINFORCING STEEL

- REINFORCEMENT SHALL CONFORM TO ASTM A615, GRADE 60 REQUIREMENTS. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A1064 REQUIREMENTS. ALL ACCESSORIES SHALL BE IN CONFORMANCE WITH ACI 315 REQUIREMENTS.
- REINFORCING STEEL SHALL HAVE THE FOLLOWING CLEAR COVER UNLESS OTHERWISE NOTED:

a. CONCRETE CAST AGAINST EARTH	3"
b. FORMED SURFACE IN CONTACT WITH SOIL, SEWAGE, WATER OR EXPOSED TO WEATHER	2"
- LAP SPLICES SHALL BE AS SHOWN ON THE DRAWINGS. FOR LAP SPLICES NOT SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL OBTAIN ENGINEERS APPROVAL.
- THE CONTRACTOR SHALL PREPARE PLACING DRAWINGS AND SCHEDULES IN CONFORMANCE WITH ACI 315 REQUIREMENTS.

STRUCTURAL STEEL

- DESIGN, FABRICATION, ERECTION MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE LATEST AISC SPECIFICATIONS AND THE DESIGN DRAWINGS.
- STEEL MATERIAL:
 - W-SHAPED SECTIONS : ASTM A992, GRADE 50
 - HOLLOW STRUCTURAL SECTIONS: ASTM A500, GRADE B
 - ALL OTHER STRUCTURAL STEEL: ASTM A36
 - ALL PIPE: ASTM A53, GRADE B
- WELDED CONNECTIONS SHALL BE IN ACCORDANCE WITH THE LATEST AWS STRUCTURAL WELDING CODE REQUIREMENTS. ELECTRODES SHALL BE E-70XX.
- BOLTED CONNECTIONS:
 - MAIN CONNECTIONS: 3/4" DIA, ASTM A325 BOLTS. HOLES: 13/16" DIA CONNECTION SHALL BE "BEARING" TYPE WITH THREADS EXCLUDED FROM THE SHEAR PLANE.
 - SECONDARY CONNECTION: 3/4" DIA, ASTM A307 GRADE A BOLTS.
 - ALL CONNECTION SHALL HAVE A MINIMUM OF TWO BOLTS. GUSSET PLATES SHALL BE A MINIMUM OF 3/8" THICK.
 - ALL COLUMNS AND POSTS SHALL HAVE MILLED ENDS FOR FULL BEARING AT BASE PLATES.

ALUMINUM

- ALUMINUM DESIGN, DETAILING, FABRICATION, AND ERECTION SHALL CONFORM TO THE LATEST EDITION OF THE ALUMINUM DESIGN MANUAL.
- ALUMINUM IN CONTACT WITH OR EMBEDDED IN CONCRETE OR MASONRY SURFACES SHALL BE COATED WITH A HEAVY COATING OF ALKALI RESISTANT BITUMINOUS PAINT.
- ALL BOLTS USED IN CONNECTIONS WITH ALUMINUM MEMBERS SHALL BE STAINLESS STEEL TYPE 316, UNLESS NOTED OTHERWISE.
- ALL WELDING OF ALUMINUM STRUCTURES SHALL CONFORM TO "STRUCTURAL WELDING CODE - ALUMINUM", AWS D1.2, LATEST EDITION.

STAINLESS STEEL

- STAINLESS STEEL MATERIALS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE:
 - EXTERIOR AND SUBMERGED USE: TYPE 316 TYPE 316L (WHERE WELDED)
 - INTERIOR AND ARCHITECTURAL USE : TYPE 304 TYPE 304L (WHERE WELDED)
- ALL WELDING OF STRUCTURAL STAINLESS STEEL SHALL CONFORM TO "STRUCTURAL WELDING CODE - STAINLESS STEEL", AWS D1.6, LATEST EDITION. ELECTRODES SHALL BE E-318 316L STAINLESS STEEL.
- STAINLESS STEEL PLATES, SHEETS AND WASHERS SHALL BE IN ACCORDANCE TO ASTM A240.
- STAINLESS STEEL W SHAPES, CHANNELS AND ANGLES SHALL BE IN ACCORDANCE TO ASTM A276.
- ALL BUILT-UP ASSEMBLIES SHALL BE FUSED BY LASER IN ACCORDANCE WITH ASTM A1069 FOR NON TUBULAR SHAPES OR WELDED IN ACCORDANCE WITH ASTM A554 FOR TUBULAR SHAPES.
- STAINLESS STEEL BOLTS AND THREADED RODS SHALL BE TYPE 316 IN ACCORDANCE TO ASTM F593 UNLESS NOTED OTHERWISE.
- STAINLESS STEEL NUTS SHALL BE TYPE 316 IN ACCORDANCE TO ASTM F594 UNLESS NOTED OTHERWISE.

STRUCTURAL ABBREVIATIONS

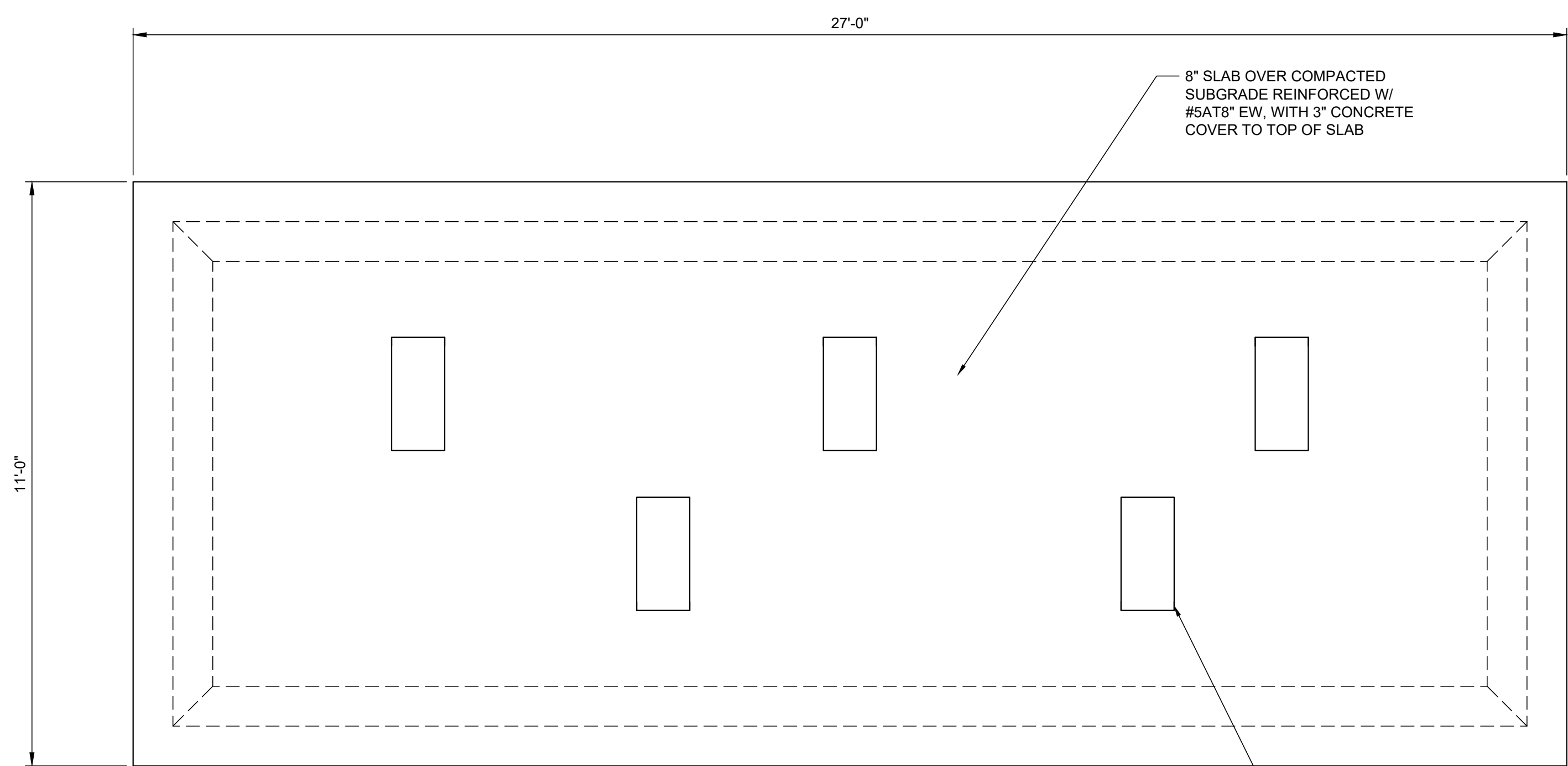
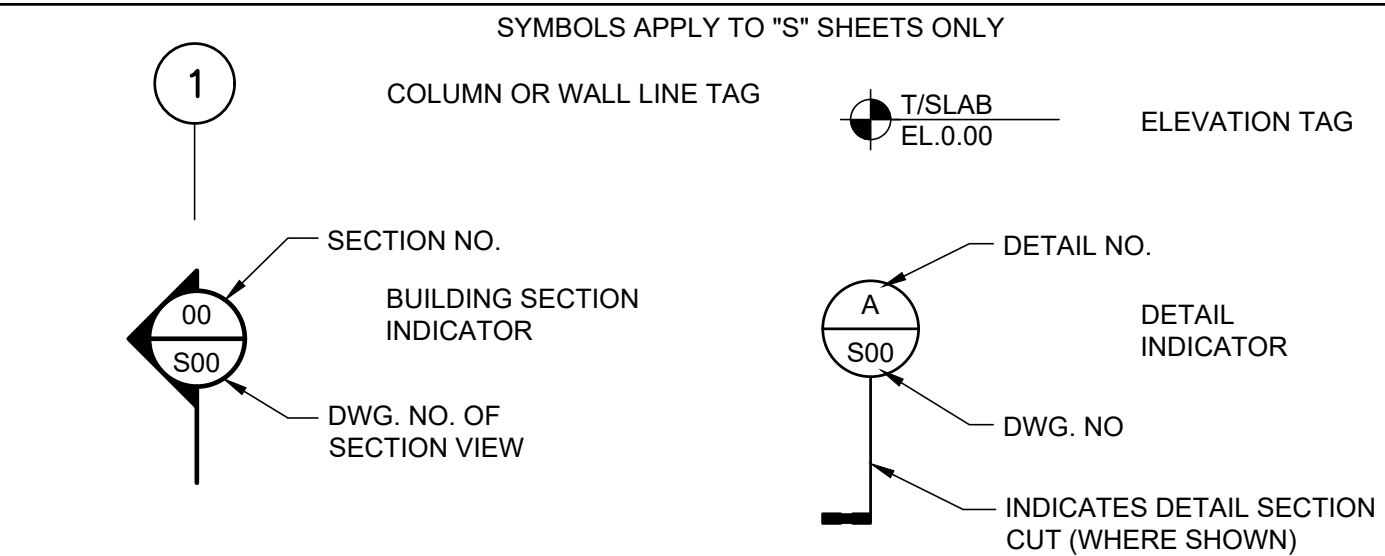
&	AND	EXIST	EXISTING	PERP	METAL BUILDING PERPENDICULAR
@	AT	EXP	EXPANSION	PL	PLATE
#	NUMBER	FE	FIRE EXTINGUISHER	PLF	POUND PER LINEAR FOOT
ADDTL	ADDITIONAL	FF	FAR FACE, FINISHED	PT	PRESSURE TREATED
AFF	ABOVE FINISHED	FG	FLOOR	PROJ	PROJECTION
ALUM	ALUMINUM	FRP	FIBER REINFORCED PLASTIC	PSF	POUNDS PER SQUARE FOOT
AEWIS	AUTOMATIC END WELDED STUD(S)	FT	FOOT	PSI	POUNDS PER SQUARE INCH
ALT	ALTERNATE	FTG	FOOTING	PVC	POLYVINYL CHLORIDE
APPROX	APPROXIMATE(LY)	FV	FIELD VERIFY	R	RADIUS
BLD	BUILDING	GA	GAGE	REINF	REINFORCING
BM	BEAM	GALV	GALVANIZED	REQD	REQUIRED
BOT	BOTTOM	HK	HOOK	RO	ROUGH OPENING
CJ	CONTROL JOINT	HORIZ	HORIZONTAL	SCHED	SCHEDULE(D)
CL	CENTER LINE	HSS	HOLLOW STRUCTURAL SECTION	SIM	SIMILAR
CLR	CLEAR	HP	HIGH POINT	SJ	SAWCUT JOINT
CMU	CONCRETE MASONRY UNIT	ID	INSIDE DIAMETER	SMS	SHEET METAL SCREW
COL	COLUMN	JT	JOINT	SPECS	SPECIFICATIONS
CONC	CONCRETE	LB(S)	POUND(S)	SQ	SQUARE
CONN	CONNECTION	LONG	LONGITUDINAL	SS	STAINLESS STEEL
CONST JT	CONSTRUCTION JOINT	LP	LOW POINT	STD	STANDARD
CONT	CONTINUOUS	MANUF	MANUFACTURER	STL	STEEL
CTR	CENTER	MATL	MATERIAL	T/	TOP OF
DIA	DIAMETER	MAX	MAXIMUM	TB	TIE BEAM
DIM	DIMENSION	MECH	MECHANICAL	T&B	TOP AND BOTTOM
DEG	DEGREE(S)	MFR	MANUFACTURER	THK	THICK
DO	DITTO	MIN	MINIMUM	THRU	THROUGH
DWG	DRAWING	MISC	MISCELLANEOUS	TCC	TOP OF CONCRETE
DWL	DOWEL(S)	MO	MASONRY OPENING	TOS	TOP OF STEEL
(E)	EXISTING	MTL	METAL	TYP	TYPICAL
EA	EACH	NO	NUMBER	UNO	UNLESS NOTED OTHERWISE
EF	EACH FACE	NTS	NOT TO SCALE	VERT	VERTICAL
EJ	EXPANSION JOINT	OC	ON CENTER	WT	WEIGHT
EL	ELEVATION	OD	OUTSIDE DIAMETER	WWF	WELDED WIRE FABRIC
ELEC	ELECTRICAL	OH	OPPOSITE HAND		
EMBED	EMBEDMENT	OPNG	OPENING		
EQ	EQUAL	PCS	PIECES		
EW	EACH WAY	PEMB	PRE-ENGINEERED		

LEGEND

STRUCTURAL LEGEND APPLIES TO "S" SHEETS ONLY

	EARTH FILL		CONCRETE
	UNDISTURBED EARTH		EXISTING CONCRETE
	COMPACTED GRANULAR FILL		DEMOLITION
	GROUT OR SAND (AS NOTED)		STEEL
	GRATING		PRECAST CONCRETE

SYMBOLS



FLOW METER
PLAN
1/2"=1'-0"

- NOTES:**
- REFER TO "M" DRAWINGS FOR LOCATION, ELEVATION AND ORIENTATION OF SLABS. ALL SLABS SHALL BE SLOPED TO PREVENT PONDING OF WATER.
 - REFER TO "M" DRAWINGS FOR ALL PIPE AND EQUIPMENT LOCATIONS.
 - ALL CONCRETE SLABS SHALL BE CAST OVER COMPACTED SUBGRADE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.

711 N ORANGE AVE, SUITE A
WINTER PARK, FL 32789
P: 321.972.4989 COA Lic. No: 31920
WEKIVA PROJECT #22-184

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APPROVED BY:	DATE		

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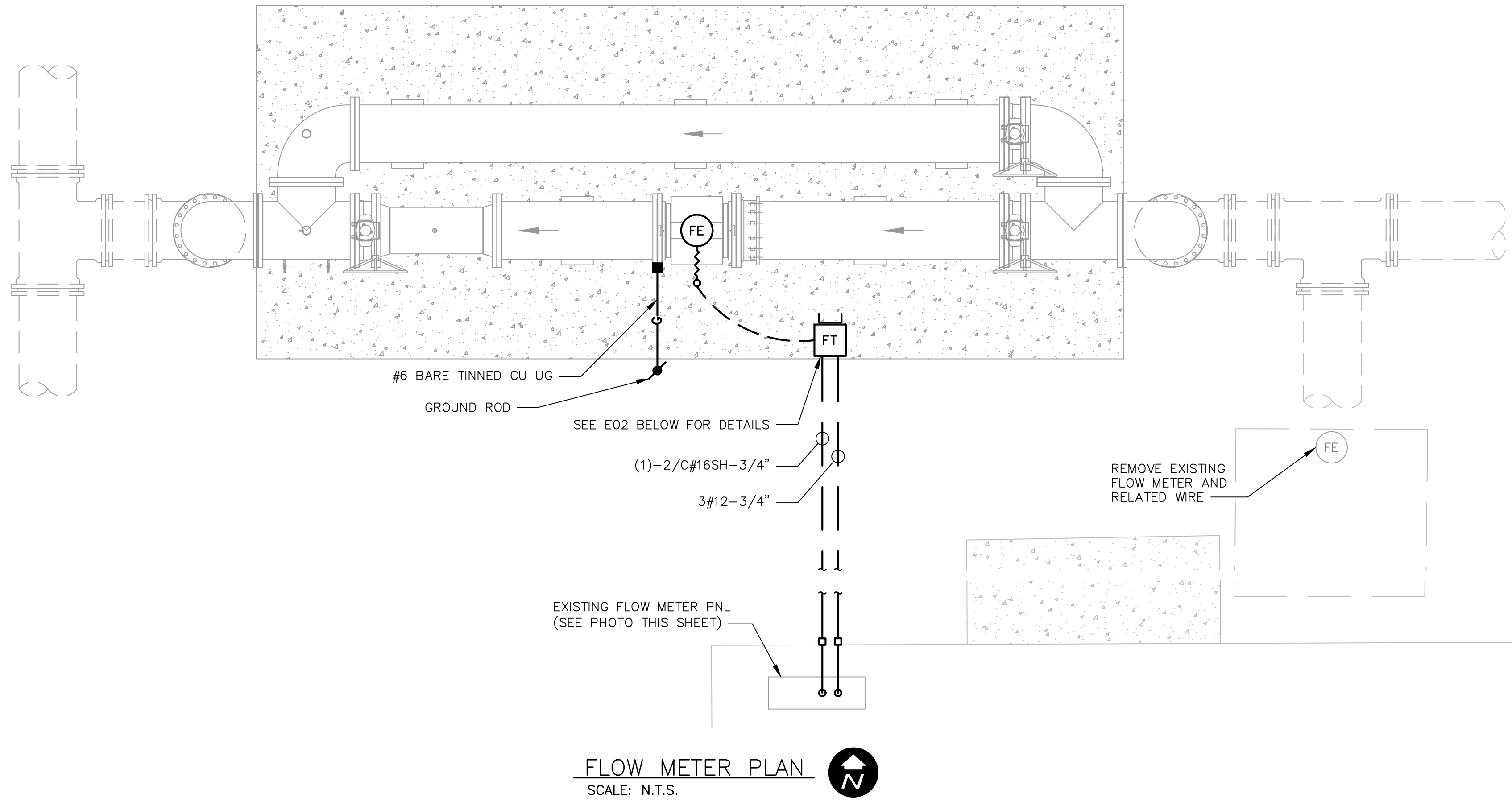
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CITY OF CLEARWATER
POTABLE WATER PIPING IMPROVEMENTS - PHASE 2&4&5
AREA 279B - PALMETTO ST
FLOW METER PAD STRUCTURAL PLANS, SECTIONS AND DETAILS

DWG NAME: 279B-S01	FIELD BOOK: N/A	SURVEYED BY: N/A	SCALE: VERT. AS NOTED
CONTRACT NO.: 18-0040-UT	DATE DRAWN: 06/2023	DRAWN BY: JVS	HORIZ. AS NOTED
JOB NO.: 072875	DESIGNED BY: JVS	CHECKED BY: WTH	SHEET NO.: 37 OF 64

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FLOW METER PLAN
SCALE: N.T.S.

GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH N.E.C. AND LOCAL CODES.
2. REFER TO EQUIPMENT SHOP DRAWINGS FOR EXACT LOCATION OF CONDUITS.
3. INSTALL BOND WIRE IN ALL RACEWAYS PER N.E.C.
4. DO NOT SCALE THE ELECTRICAL DRAWINGS. REFER TO THE MECHANICAL, CIVIL, AND STRUCTURAL DRAWINGS FOR DETAILED LOCATIONS OF ALL PIPING AND EQUIPMENT.

SYMBOLS

- HOME RUN TO PANELBOARD. NUMBER OF ARROWS INDICATE NUMBER OF CIRCUITS. HASH MARKS INDICATE NUMBER OF #12 AWG CONDUCTORS. NO HASH MARKS INDICATE 2 #12 CONDUCTORS.
- CONDUIT CONCEALED IN WALL OR ABOVE CEILING.
- CONDUIT CONCEALED IN OR BELOW FLOOR OR UNDERGROUND.
- CONDUIT RUN EXPOSED. RUN PARALLEL OR PERPENDICULAR TO STRUCTURE OR WALL.
- FLEXIBLE CONDUIT WITH EQUIPMENT CONNECTION.

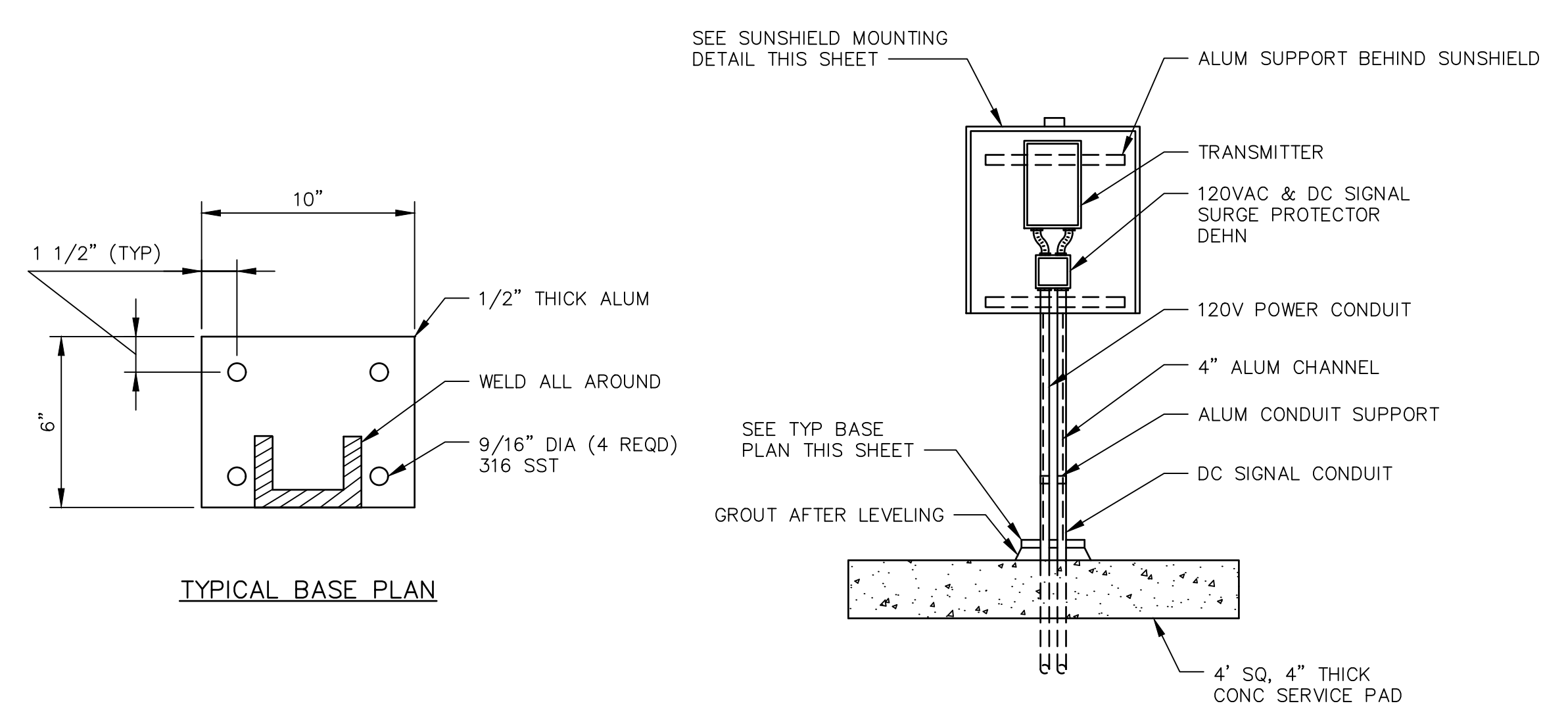
ABBREVIATIONS

- A AMPERES
- AIC ASYMMETRICAL INTERRUPTING CURRENT
- BKR BREAKER
- BLDG BUILDING
- CAB CABINET
- CIR CIRCUIT
- CONT CONTROL
- CP CONTROL PANEL
- CPT CONTROL POWER TRANSFORMER
- CT CURRENT TRANSFORMER
- EC EMPTY CONDUIT
- ELEC ELECTRICAL
- EM EMERGENCY
- ENCL ENCLOSURE
- ETM ELAPSE TIME METER
- EXIST EXISTING
- GEN GENERATOR
- GND GROUND
- HOA HAND-OFF-AUTOMATIC
- HP HORSEPOWER
- HPS HIGH PRESSURE SODIUM
- KCMIL THOUSAND CIRCULAR MILS
- KVA KILOVOLT-AMPERES
- LS LIMIT SWITCH
- LSCP LIFT STATION CONTROL PANEL
- LTG LIGHTING
- MAX MAXIMUM
- MB MAIN BREAKER
- MCC MOTOR CONTROL CENTER
- MCP MOTOR CIRCUIT PROTECTOR
- MFR MANUFACTURER
- MIN MINIMUM
- MTD MOUNTED
- NEC NATIONAL ELECTRIC CODE
- NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
- P POLE
- PNL PANEL
- RGS RIGID GALVANIZED STEEL
- SW SWITCH
- S STAINLESS STEEL
- TYP TYPICAL
- UG UNDERGROUND
- V VOLT
- VAC VOLTS ALTERNATING CURRENT
- W WIRE
- WP WEATHER PROOF
- XMFR TRANSFORMER

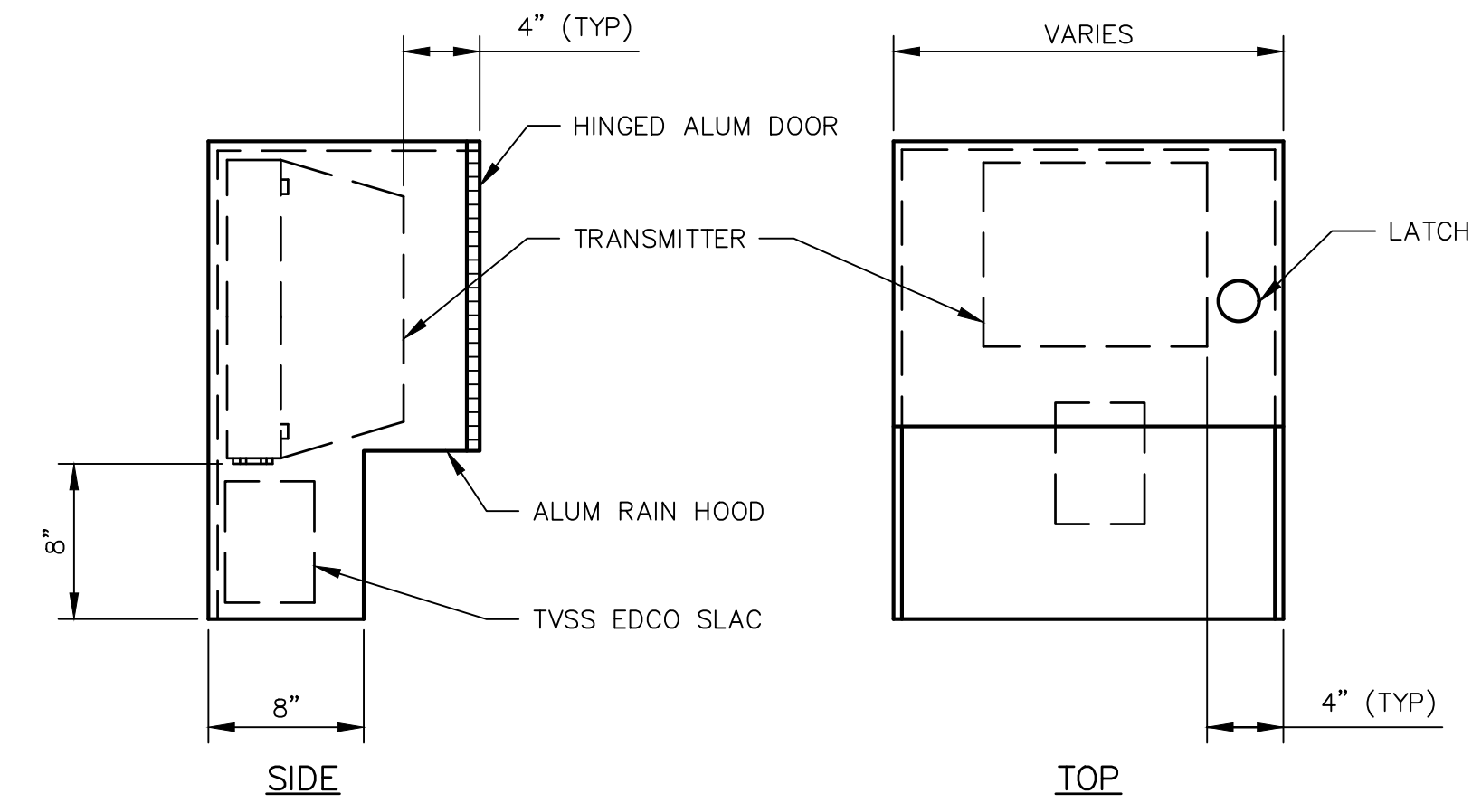


PHOTO: EXISTING FLOW TRANSMITTER
SCALE: N.T.S.

REMOVE THE EXISTING FLOW TRANSMITTER AND ADD A TERMINAL STRIP FOR THE 120VAC & DC WIRING. COORDINATED WITH THE OWNER.

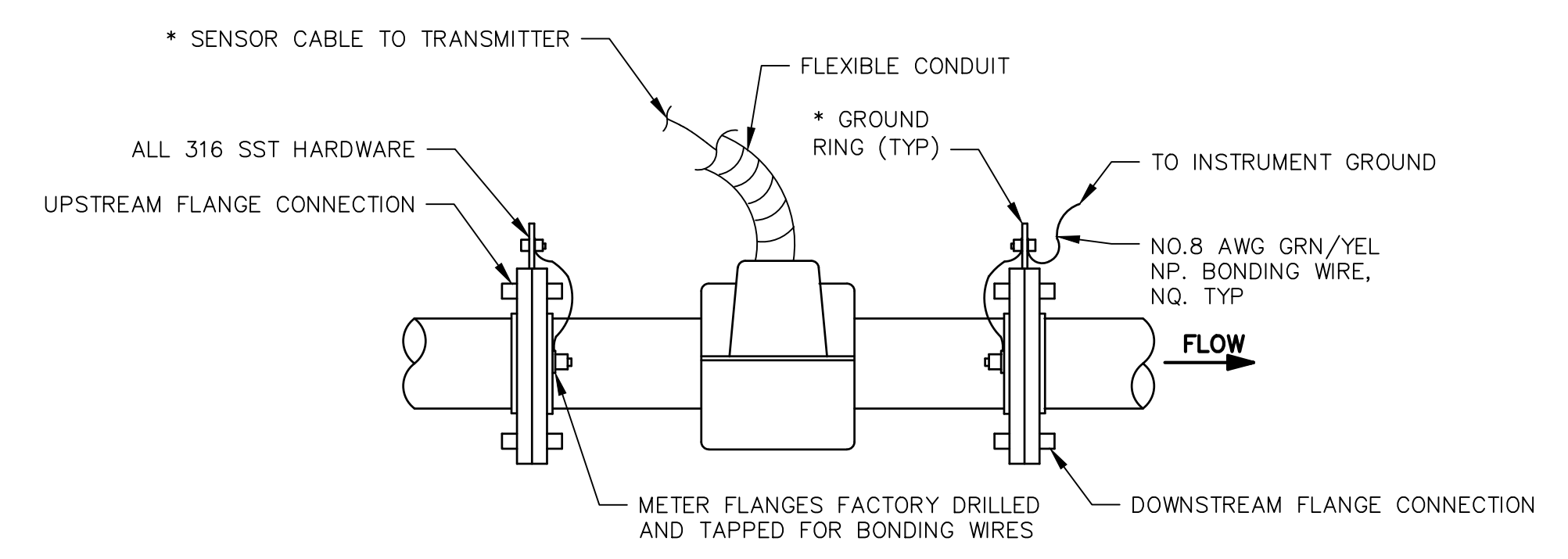


MOUNTING DETAIL
SCALE: N.T.S.



TYPICAL SUNSHIELD MOUNTING DETAIL
SCALE: N.T.S.

- NOTES:
1. SUN SHIELD SHALL BE 10 GA. ALUMINUM CONTINUOUS WELD, GROUND SMOOTH AND BURR FREE. DRILL HOLES AS PER MOUNTING HOLES FOR INSTRUMENT.



- NOTES:
1. COMPONENTS DESIGNATED BY * ARE SUPPLIED BY INSTRUMENT MANUFACTURER.

MAGNETIC FLOW METER INSTALLATION DETAIL
SCALE: N.T.S.

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5742 River Bed Road
Groveland, FL 34736
(352) 460-4035

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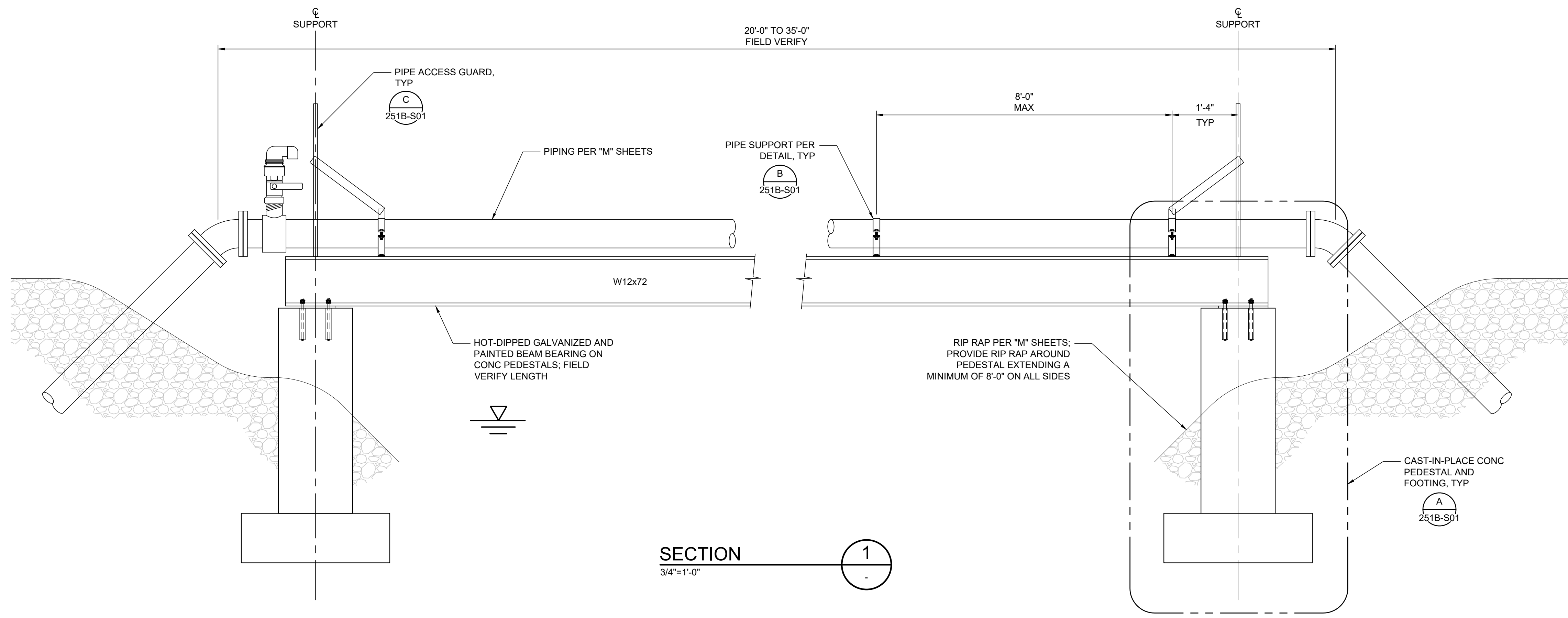
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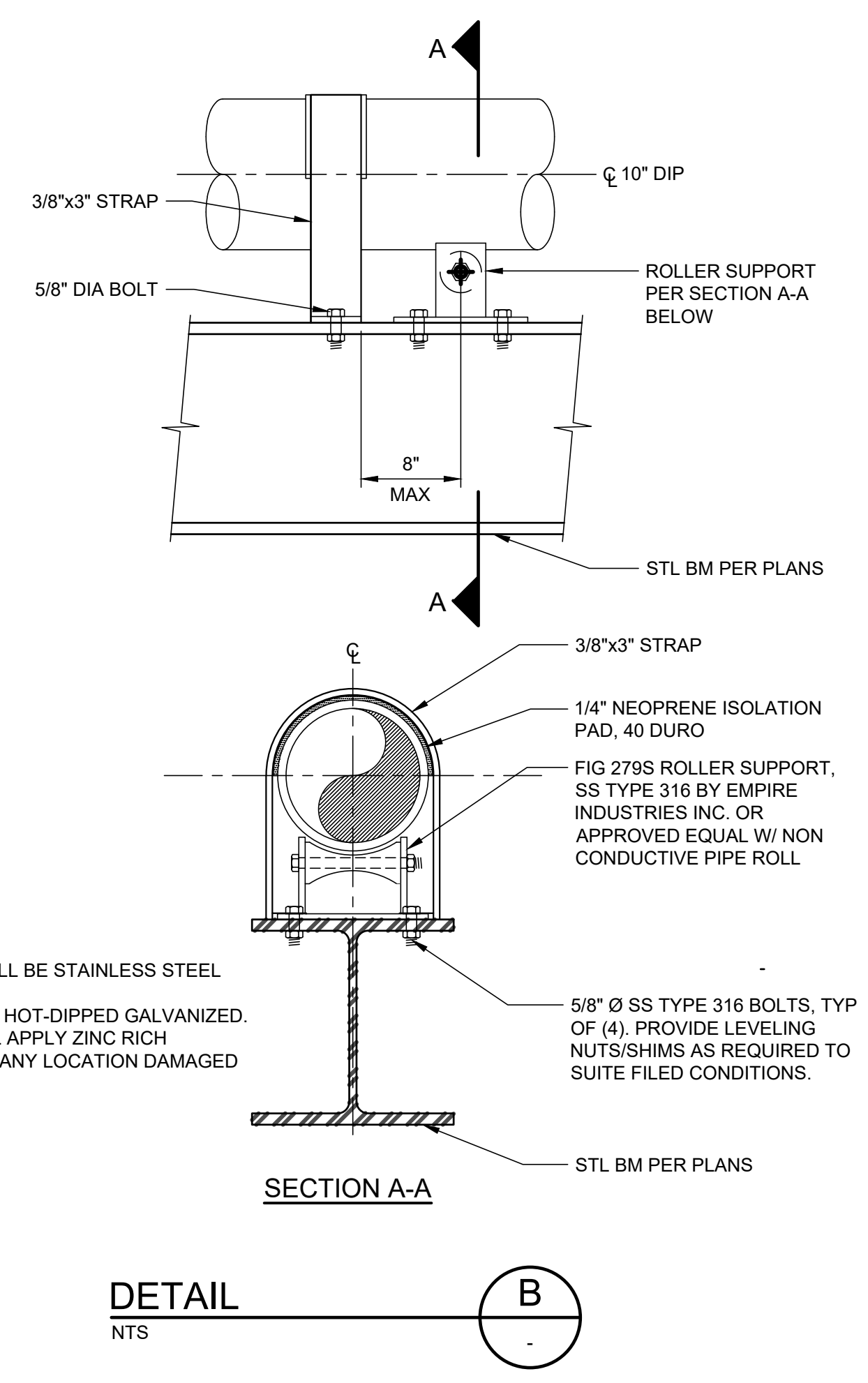
CITY OF CLEARWATER
POTABLE WATER PIPING IMPROVEMENTS - PHASE 2&4&5
AREA 279B - PALMETTO ST
FLOW METER ELECTRICAL PLANS, SECTIONS AND DETAILS

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CONTRACT NO.:	DATE DRAWN:	DRAWN BY:	HORIZ. AS NOTED
18-0040-UT	06/2023	WCH	
JOB NO.:	DESIGNED BY:	CHECKED BY:	SHEET NO.:
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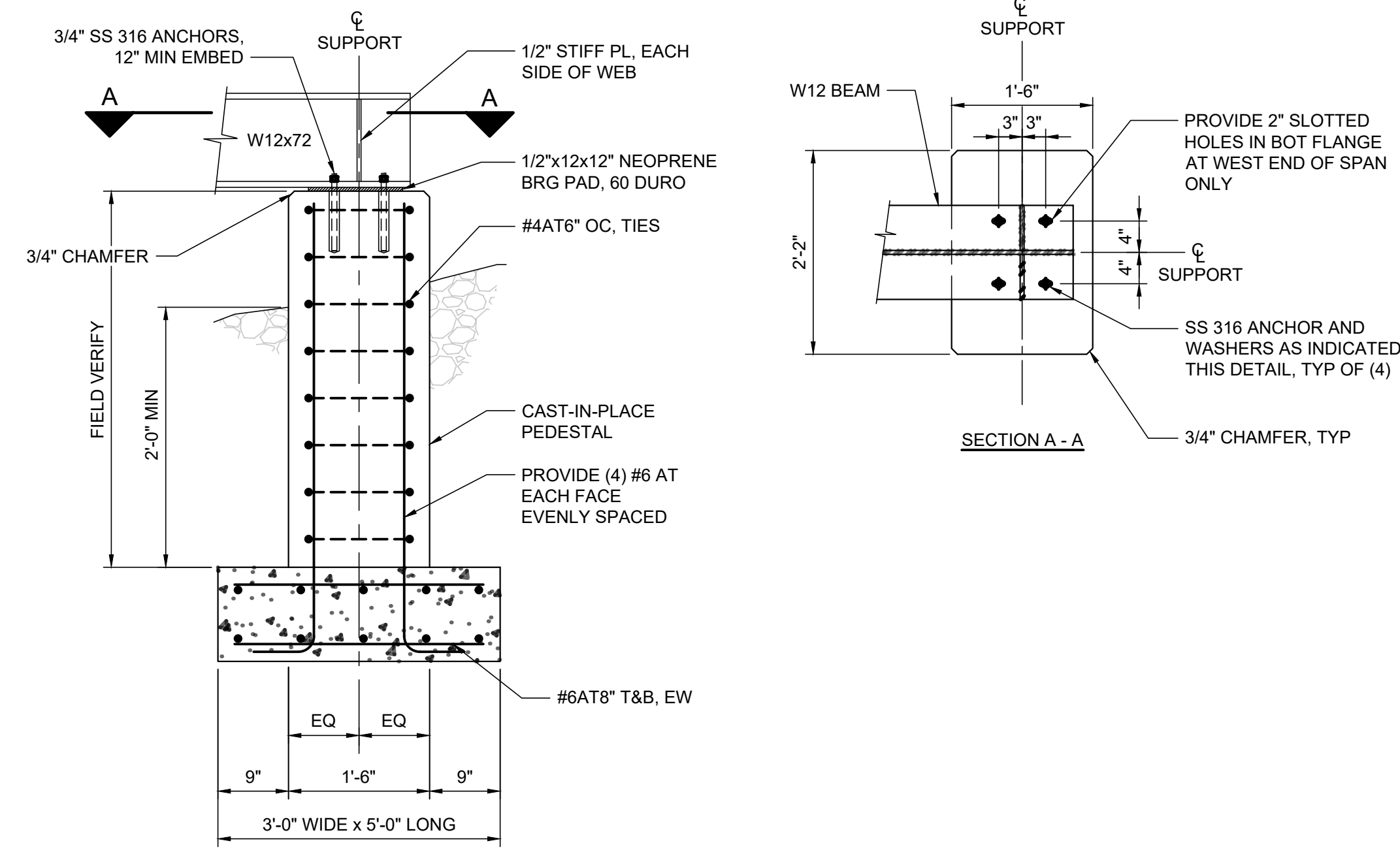
SECTION 1
3/4"=1'-0"



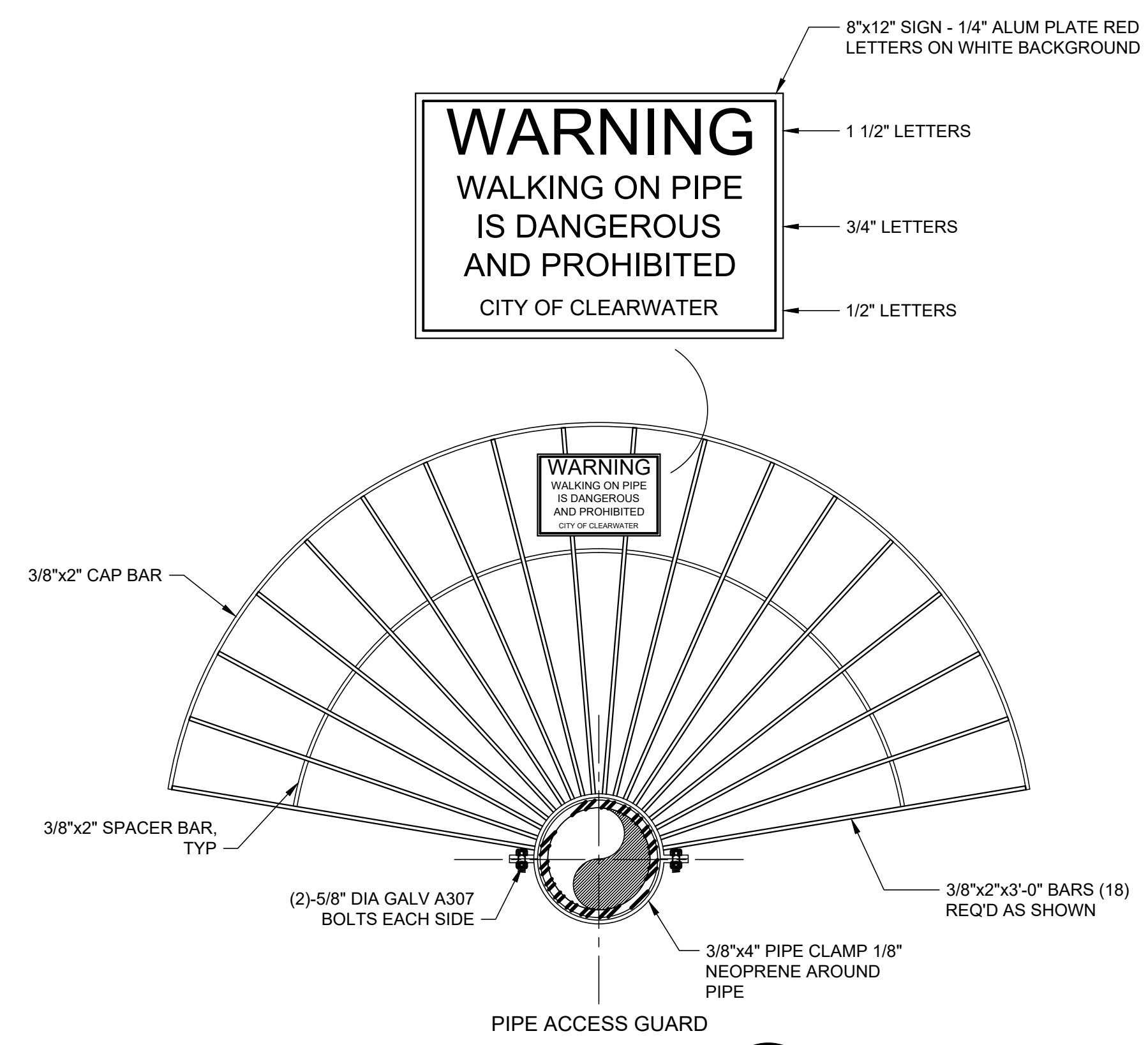
NOTES:

1. ALL HARDWARE SHALL BE STAINLESS STEEL TYPE 316.
2. ALL STEEL SHALL BE HOT-DIPPED GALVANIZED. CONTRACTOR SHALL APPLY ZINC RICH TOUCH-UP PAINT AT ANY LOCATION DAMAGED IN THE FIELD, UNO.

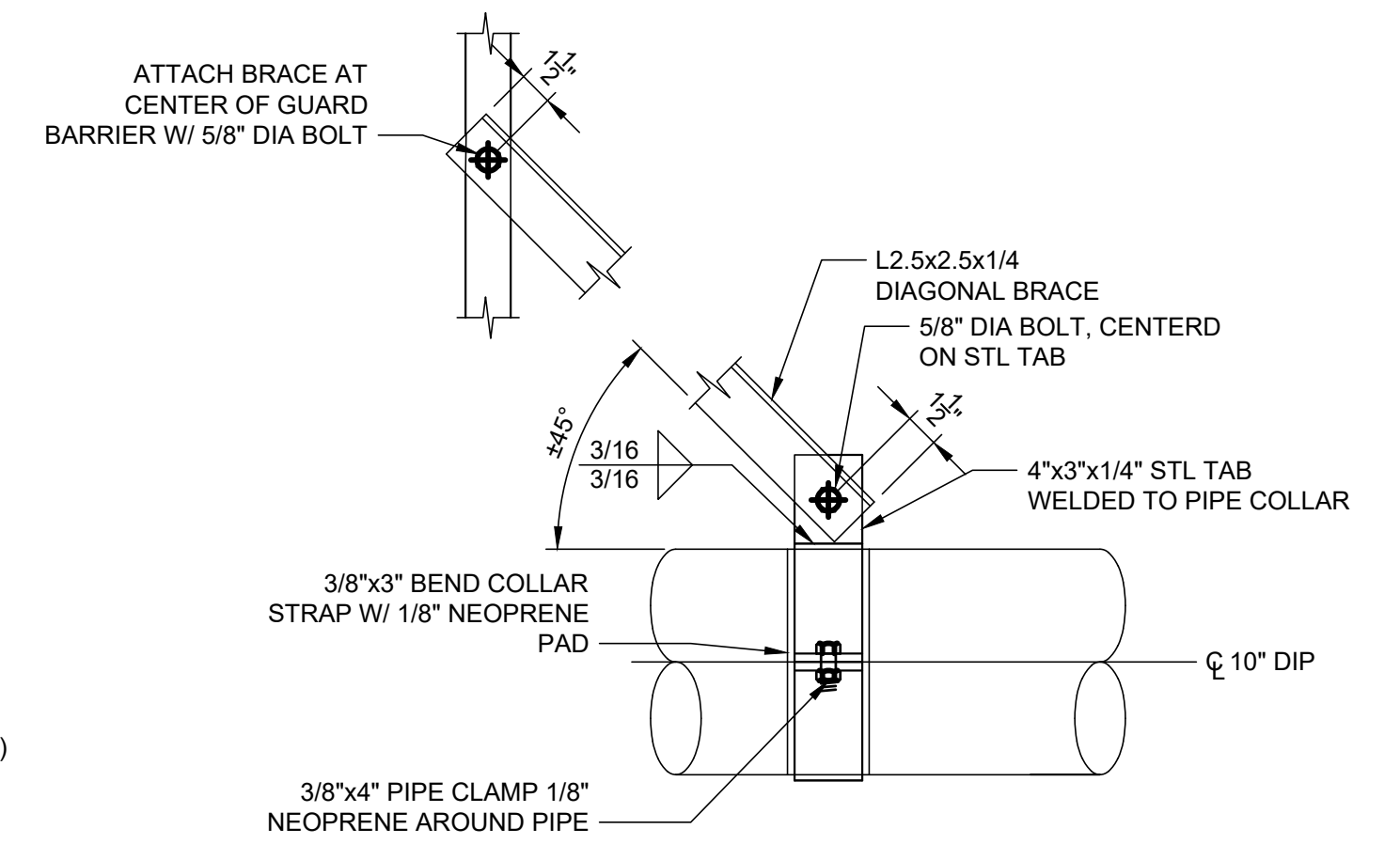
DETAIL B
NTS



DETAIL A
3/4"=1'-0"



DETAIL C
NTS



Parent Sheet Set: 072875-CirWtr_TaskR2a/Fig2a-4&5/PAUL_HELLER Rev on: 6/19/2023 11:49 AM Individual File Path: Ph4_251B-S01.dwg

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CLEARWATER, FL 33756

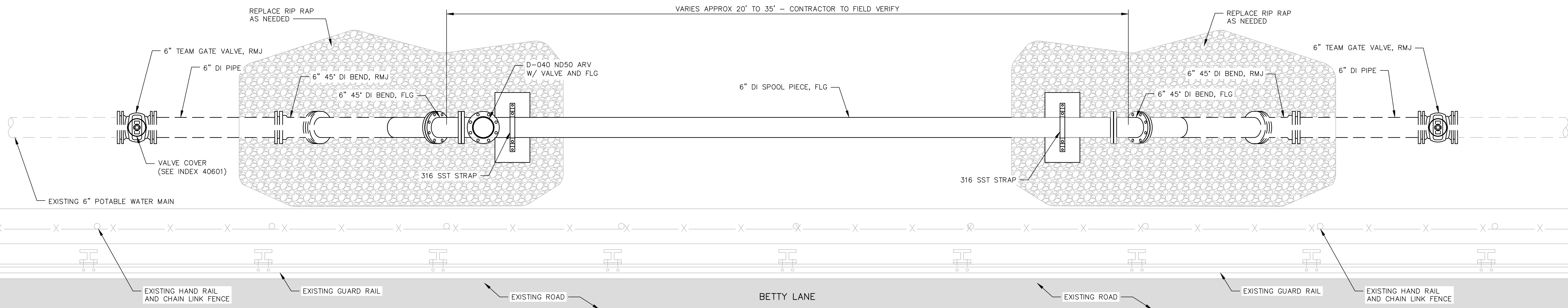
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CITY OF CLEARWATER
POTABLE WATER PIPING IMPROVEMENTS - PHASE 2&4&5
AREA 251B - BETTY LN
AERIAL CROSSING STRUCTURAL PLANS, SECTIONS AND DETAILS

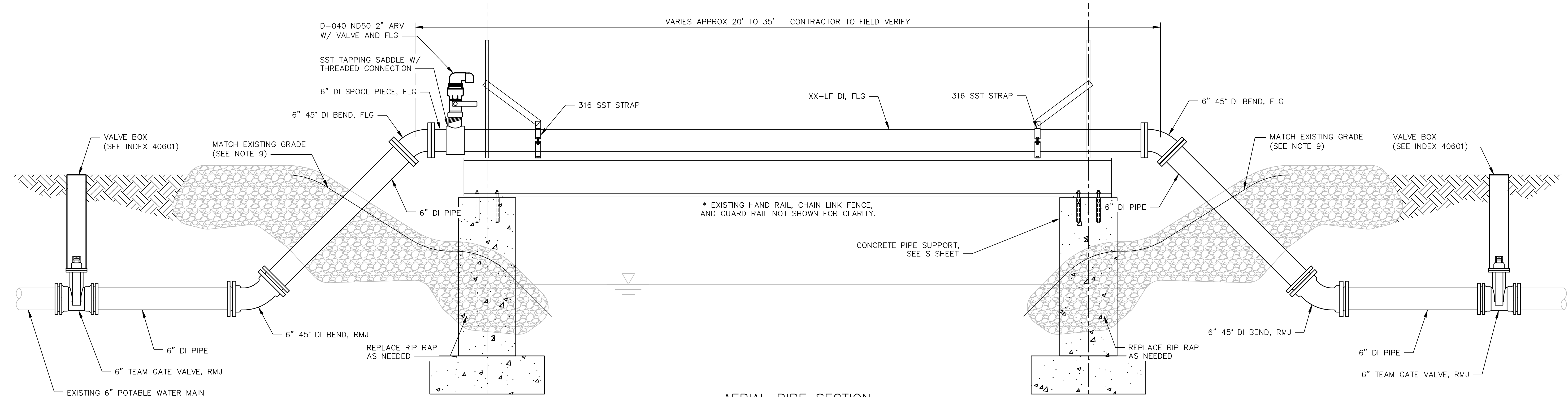
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CONTRACT NO.:	DATE DRAWN:	DRAWN BY:	HORIZ. AS NOTED
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WE WEKIVA ENGINEERING
711 N ORANGE AVE, SUITE A
WINTER PARK, FL 32789
P: 321.972.4989 COA Lic. No: 31920
WEKIVA PROJECT #22-184



AERIAL PIPE PLAN
SCALE: N.T.S.



AERIAL PIPE SECTION
SCALE: N.T.S.

NOTES

- ALL PIPING SHALL BE DUCTILE IRON WITH 316 STAINLESS STEEL HARDWARE.
- PIPE CLAMPS SHALL BE 316 STAINLESS STEEL WITH 316 STAINLESS STEEL HARDWARE.
- ALL EXPOSED PIPING SHALL BE PREPARED BY UNIFORMLY ABRASIVE BLASTING USING ANGULAR ABRASIVE TO A NAP500-03-04 OR IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS.
- CONTRACTOR SHALL PROPERLY CONTAIN, COLLECT, AND DISPOSE OF THE FLUIDS AND DEBRIS GENERATED IN THE SURFACE PREPARATION PROCESS IN COMPLIANCE WITH EXISTING REGULATIONS.
- SURFACE COATING SHALL BE A BASE ZINC COAT, EPOXY SECOND COAT, AND FLUOROPOLYMER COATING SYSTEM WITH RESISTANCE TO ULTRA-VIOLET LIGHT DEGRADATION, ABRASION, AND CHALKING. CONTRACTOR SHALL SUBMIT THE COATING SYSTEM AND THICKNESS FOR APPROVAL PRIOR TO APPLICATION.
- CONTRACTOR SHALL NOT COAT STAINLESS STEEL OR CONCRETE.
- WASH PIPING BETWEEN COATS TO REMOVE CHLORIDE CONTAMINATION.
- BURIED PIPING THAT IS EXPOSED DURING THE COURSE OF THE WORK SHALL BE INSPECTED FOR THE PRESENCE OF POLY-WRAP. IF ABSENT, CONTRACTOR SHALL INSTALL POLY-WRAP WITHIN LIMITS OF EXCAVATION.
- RESTORE GRADE TO MATCH EXISTING GRADE AND SOD ALL DISTURBED AREAS TO MATCH EXISTING SOD.
- CONTRACTOR SHALL RESTRAIN BELL JOINTS PRIOR TO INSTALLATION OF TEAMS VALVE.

Parent Sheet Set: 072875-CirWtr Task: Riprap/Flg/Valve/485/FAUL HELLER Rev on: 2/22/2023 5:10 PM Individual File Path: Ph4_251B-M01.dwg

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CLEARWATER, FL 33756

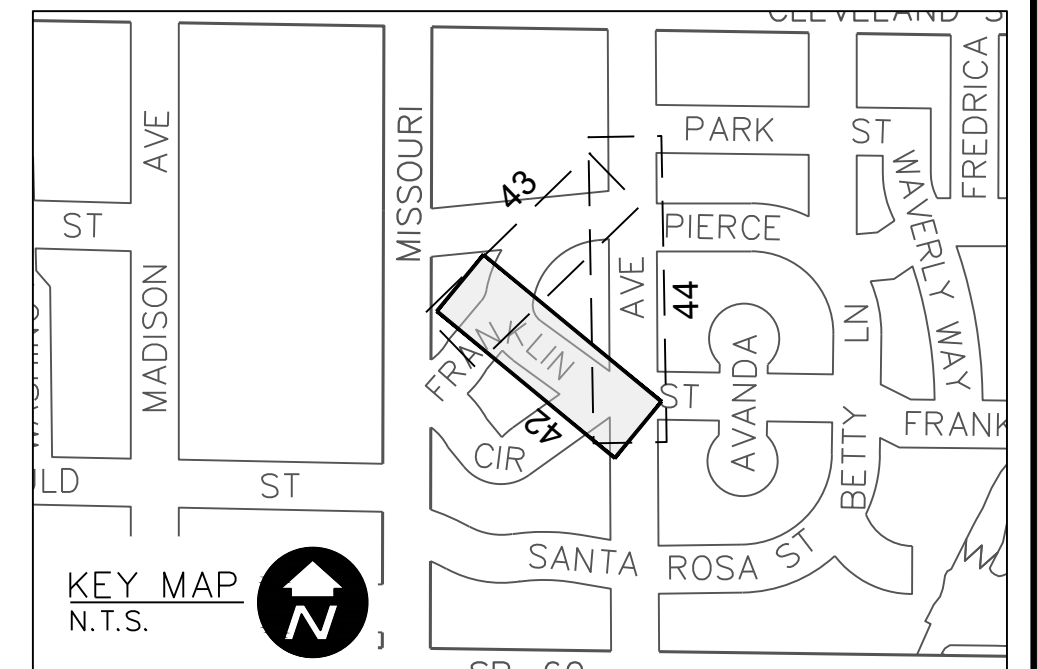
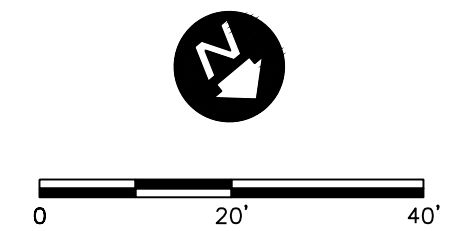
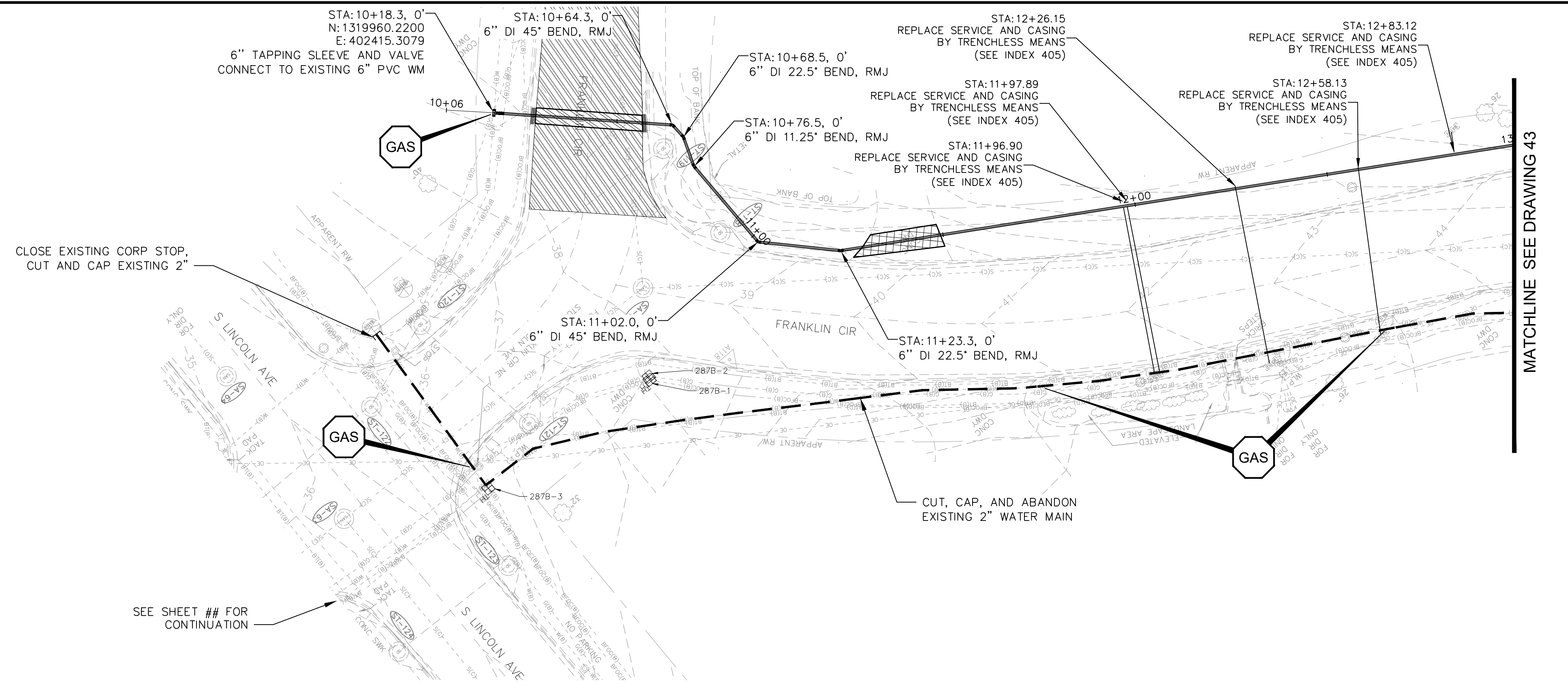


CITY OF CLEARWATER
POTABLE WATER PIPING IMPROVEMENTS - PHASE 2&4&5
AREA 251B - BETTY LN
AERIAL CROSSING MECHANICAL PLANS, SECTIONS AND DETAILS

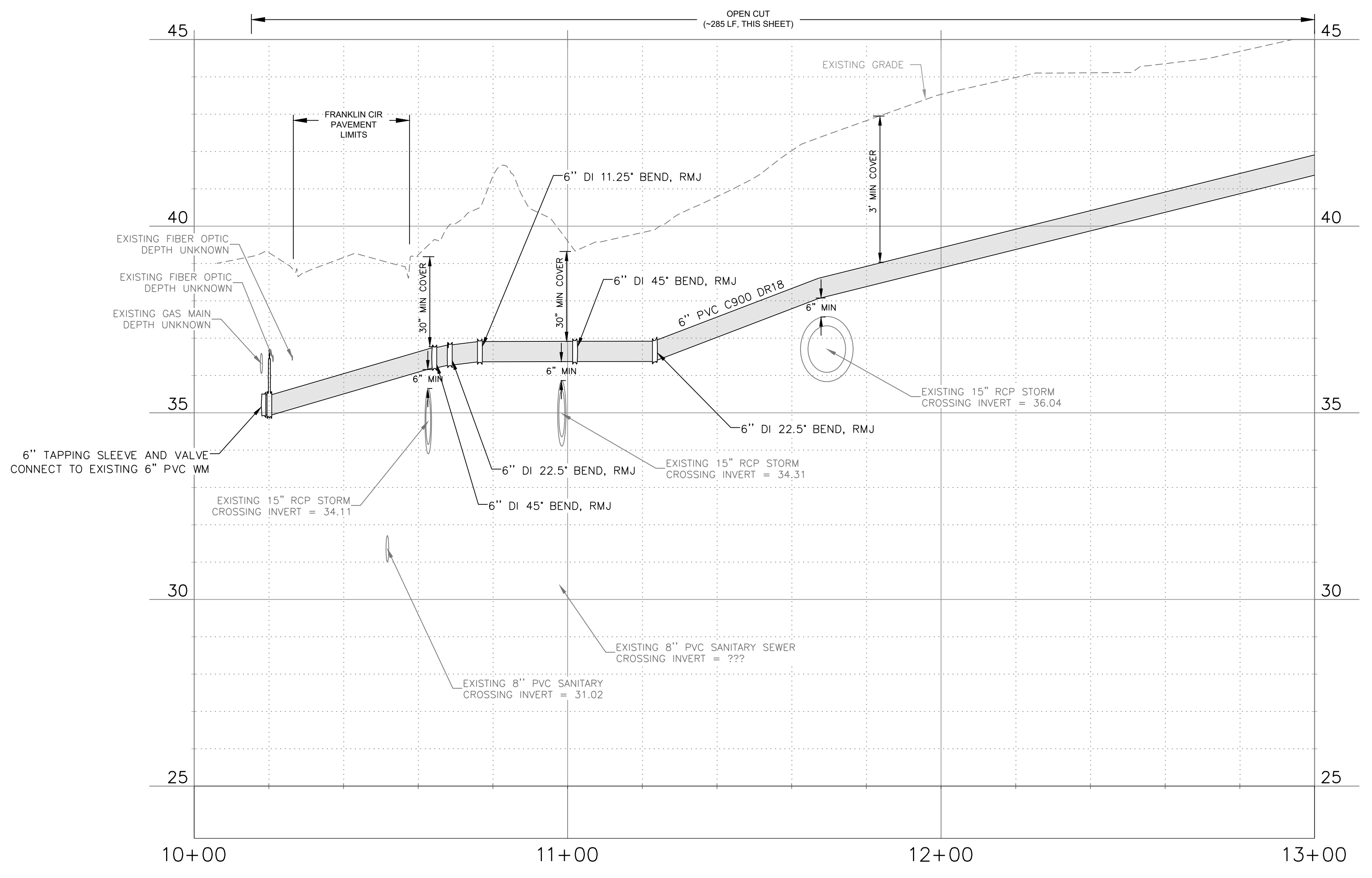
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CONTRACT NO.: 18-0040-UT	DATE DRAWN: 06/2023	DRAWN BY: VVV/PFH	HORIZ. AS NOTED
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- GENERAL NOTES**
- MINIMUM SEPARATION BETWEEN PROPOSED WATER MAIN AND EXISTING GAS MAIN SHALL BE 3'.
 - DEFLECT PIPE AT JOINTS MAXIMUM 75% OF MANUFACTURERS ALLOWABLE DEFLECTION.
 - CONTRACTOR SHALL TEMPORARILY INSTALL AND MAINTAIN A TEMPORARY DRIVING SURFACE ASPHALT MILLINGS, ETC.) WHEN REMOVING ANY DRIVEWAYS UNTIL THE DRIVEWAYS ARE PERMANENTLY RESTORED.
 - CONTRACTOR SHALL MAINTAIN ROADWAY ACCESS AT ALL TIMES.
 - INSTALL 1" RESIDENTIAL OR 2" COMMERCIAL SERVICE LINE AND PW METER BOX ADJACENT TO EACH EXISTING WATER METER/PARCEL (5' MIN SEPARATION), ON BOTH SIDES OF ROW WITH SHORT SERVICES AND LONG SERVICES WITH CASINGS, IN ACCORDANCE WITH CITY INDEX DETAILS. FOR NEW SERVICES, CONTRACTOR TO CONFIRM LOCATION AND PLACEMENT OF SERVICE METER BOXES WITH CITY INSPECTOR AND/OR CITY'S REPRESENTATIVE.
 - CONTRACTOR SHALL VERIFY LOCATION, MATERIAL, AND DEPTH OF EXISTING INFRASTRUCTURE PRIOR TO CONSTRUCTION.
 - CONTRACTOR SHALL MAINTAIN WATER SERVICE AT ALL TIMES TO CUSTOMERS. ANY INTERRUPTIONS SHALL BE COORDINATED WITH THE CITY WITH MINIMUM 10 DAY NOTICE.
 - ONLY THE CITY MAY TURN EXISTING VALVES. IF POTABLE WATER MAIN ISOLATION IS REQUIRED, THE CONTRACTOR SHALL NOTIFY THE CITY AND RPR INSPECTOR.
 - CONTRACTOR TO INSTALL TREE PROTECTION AS NECESSARY IN ACCORDANCE WITH CITY STANDARD DETAIL 909. CONTRACTOR SHALL COORDINATE WITH ARBORIST FOR PROPER COMPLETION OF TREE PROTECTION AND ROOT PRUNING IN ACCORDANCE WITH CITY SPECIFICATIONS.
 - CONTRACTOR TO COORDINATE WITH GAS UTILITY OWNER FOR ANY NECESSARY REQUIREMENTS DURING CONSTRUCTION.
 - CONTRACTOR SHALL VERIFY ALL CUSTOMERS/BUILDINGS HAVE WATER SERVICE PRIOR TO CUTTING AND CAPPING EXISTING WATER MAINS.
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 - CONTRACTOR SHALL ADJUST ALL WATER METER(S) TO CURRENT GRADE.
 - CONTRACTOR SHALL RESTRAIN EXISTING MAINS AS NECESSARY IN ACCORDANCE WITH CITY STANDARD DETAIL 407. WHERE INSTALLATION OF RESTRAINTS MAY REQUIRE EXCAVATION OF ROADWAY, CONTRACTOR SHALL COORDINATE WITH CITY AND CITY'S REPRESENTATIVE TO CONFIRM RESTRAINING PRIOR TO INSTALLATION.
 - CONTRACTOR SHALL HAVE FIELD MEETING WITH THE CITY AND/OR RPR INSPECTOR PRIOR TO INSTALLATION OF ANY TEAM'S INSERT VALVE, TO CONFIRM IF EXISTING VALVES MAY ISOLATE THE MAIN IN LIEU OF A TEAM'S INSERT VALVE.
 - CONTRACTOR SHALL HAVE OR USE A CERTIFIED PLUMBING CONTRACTOR TO INSTALL THE CUSTOMER SIDE SERVICES AND SHALL OBTAIN CITY PLUMBING PERMITS.



LEGEND	
- X X X X X X X X -	REMOVE EXISTING PIPING
— — — — —	GROUT AND ABANDON EXISTING PIPING
— — — — —	REMOVE AND REPLACE CONCRETE CURB AND GUTTER, INCLUDING PAVEMENT MARKINGS
▨ ▨ ▨ ▨ ▨ ▨ ▨ ▨	REMOVE AND REPLACE ASPHALT PAVEMENT, INCLUDING PAVEMENT MARKINGS
▨ ▨ ▨ ▨ ▨ ▨ ▨ ▨	MILL AND OVERLAY ASPHALT PAVEMENT
▨ ▨ ▨ ▨ ▨ ▨ ▨ ▨	REMOVE AND REPLACE CONCRETE DRIVEWAY
▨ ▨ ▨ ▨ ▨ ▨ ▨ ▨	REMOVE AND REPLACE CONCRETE SIDEWALK

NOTE: PATTERN ROTATIONS MAY DIFFER FROM LEGEND IN PLAN VIEW. PLEASE SEE QUANTITY TAKEOFF TABLE IN GENERAL DRAWINGS.

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BY	DATE

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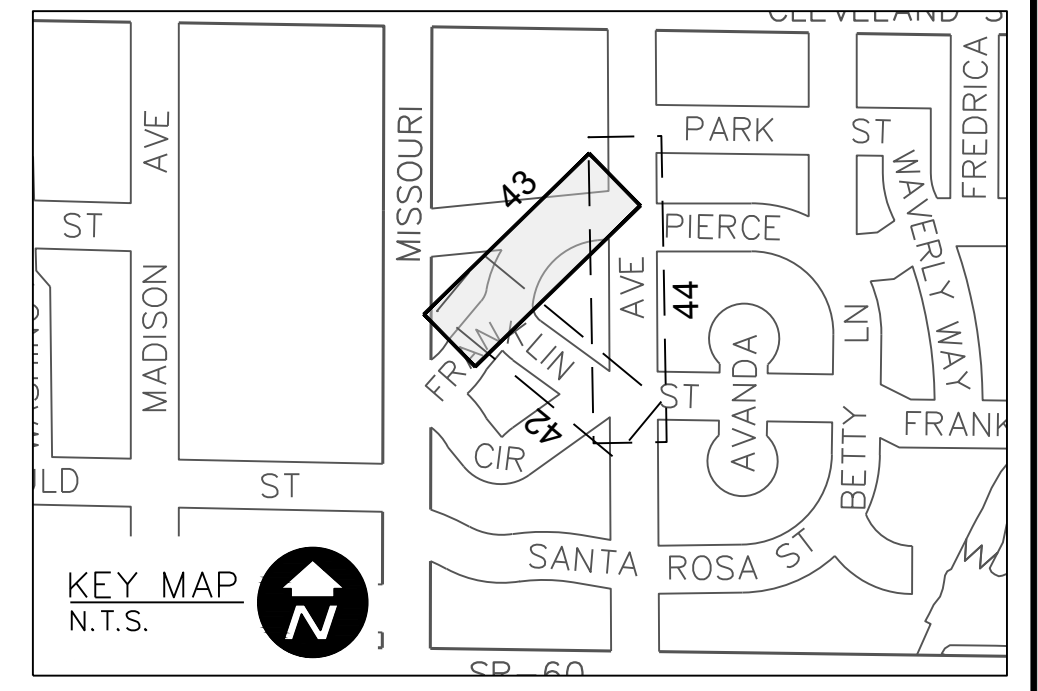
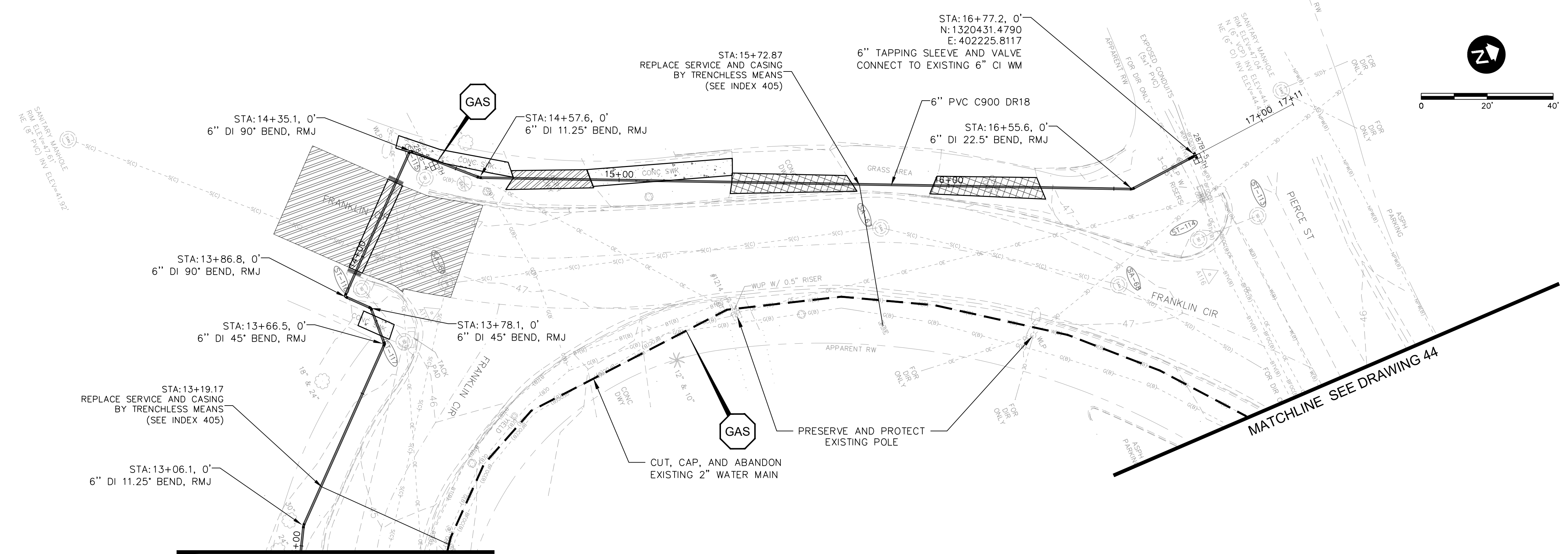
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POTABLE WATER PIPING IMPROVEMENTS - PHASE 2&4&5
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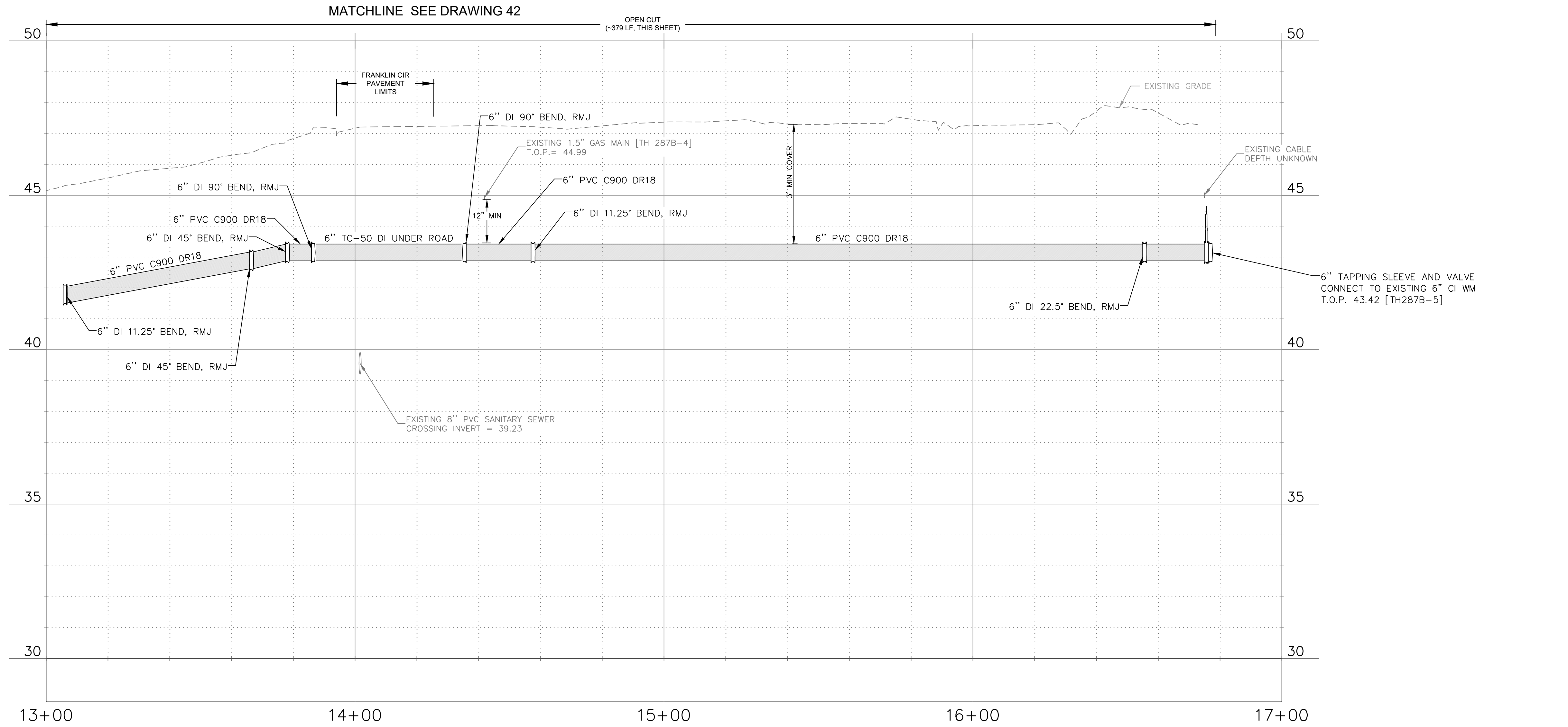
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LEGEND	
- X X X X X X X X -	REMOVE EXISTING PIPING
---	GROUT AND ABANDON EXISTING PIPING
---	REMOVE AND REPLACE CONCRETE CURB AND GUTTER
▨	REMOVE AND REPLACE ASPHALT PAVEMENT, INCLUDING PAVEMENT MARKINGS
▨	MILL AND OVERLAY ASPHALT PAVEMENT
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▨	REMOVE AND REPLACE CONCRETE SIDEWALK

NOTE: PATTERN ROTATIONS MAY DIFFER FROM LEGEND IN PLAN VIEW. PLEASE SEE QUANTITY TAKEOFF TABLE IN GENERAL DRAWINGS.

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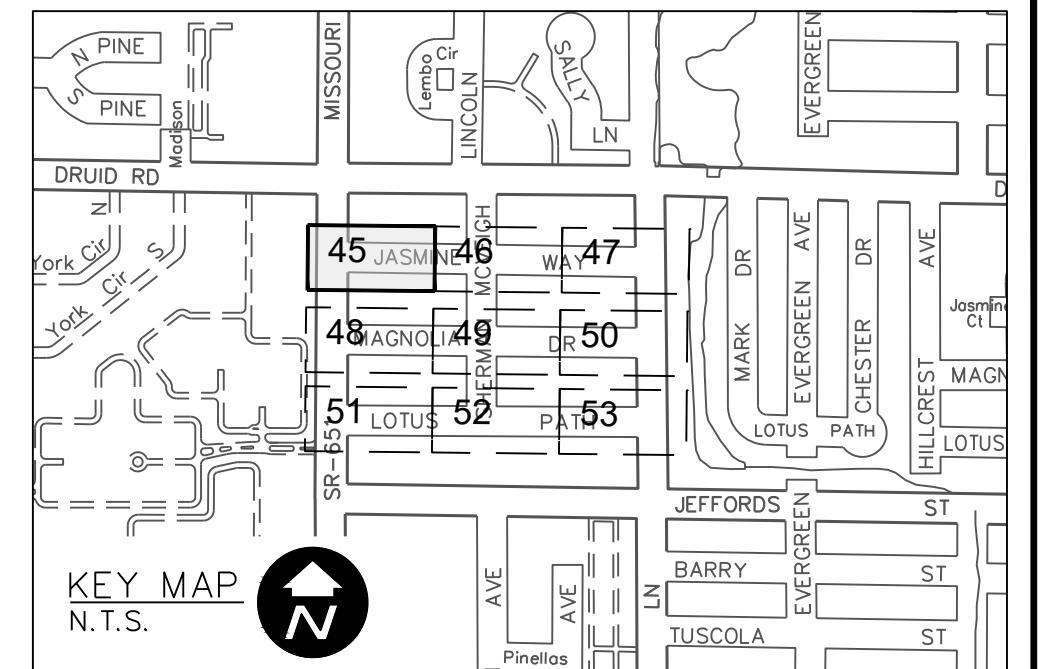
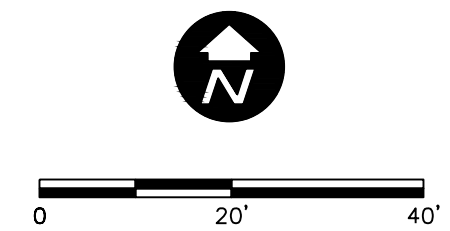
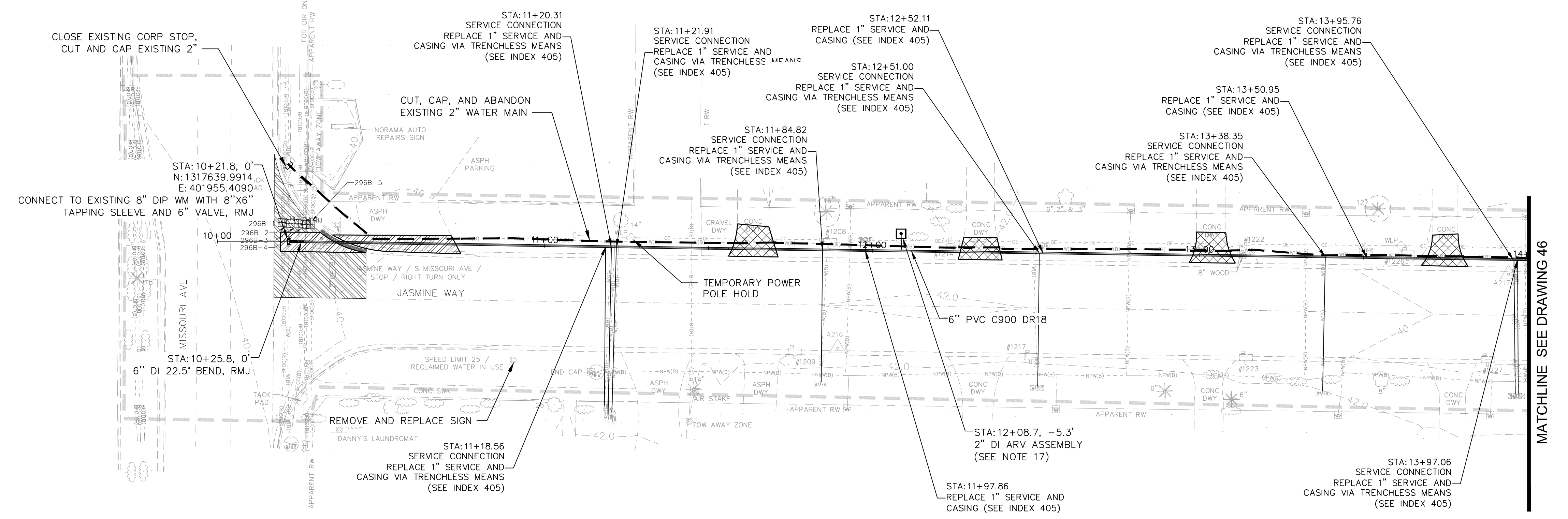


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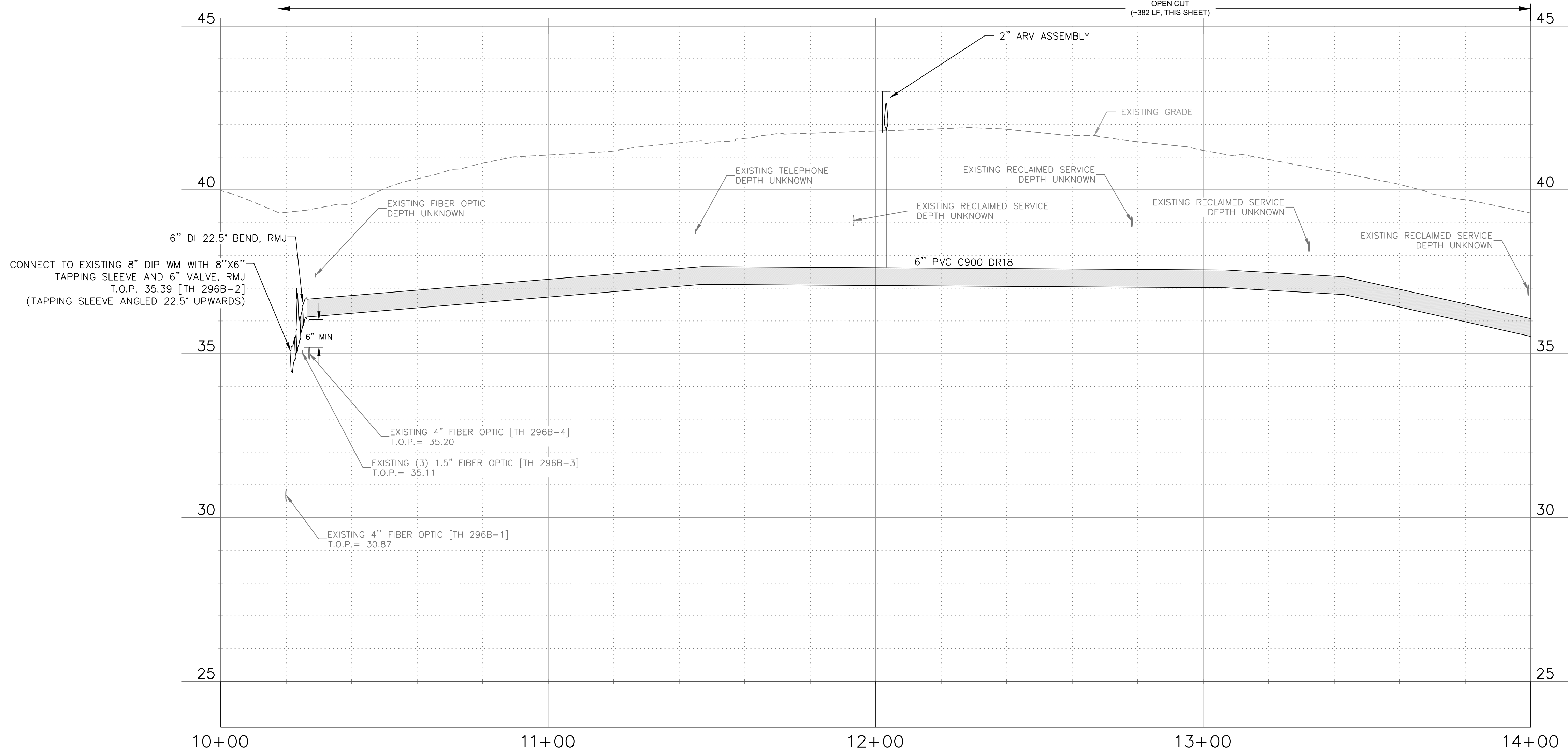
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LEGEND

- X X X X X X X -	REMOVE EXISTING PIPING
---	GROUT AND ABANDON EXISTING PIPING
—	REMOVE AND REPLACE CONCRETE CURB AND GUTTER, INCLUDING PAVEMENT MARKINGS
▨	REMOVE AND REPLACE ASPHALT PAVEMENT, INCLUDING PAVEMENT MARKINGS
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NOTE: PATTERN ROTATIONS MAY DIFFER FROM LEGEND IN PLAN VIEW. PLEASE SEE QUANTITY TAKEOFF TABLE IN GENERAL DRAWINGS.

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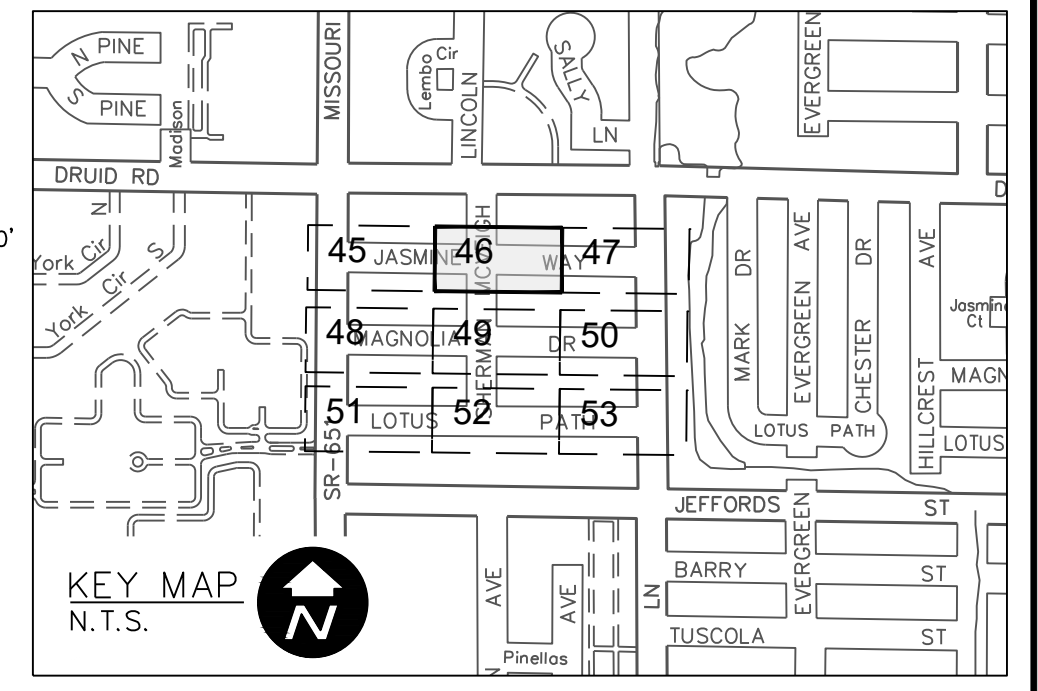
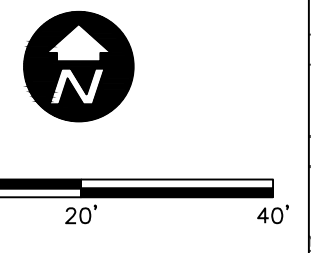
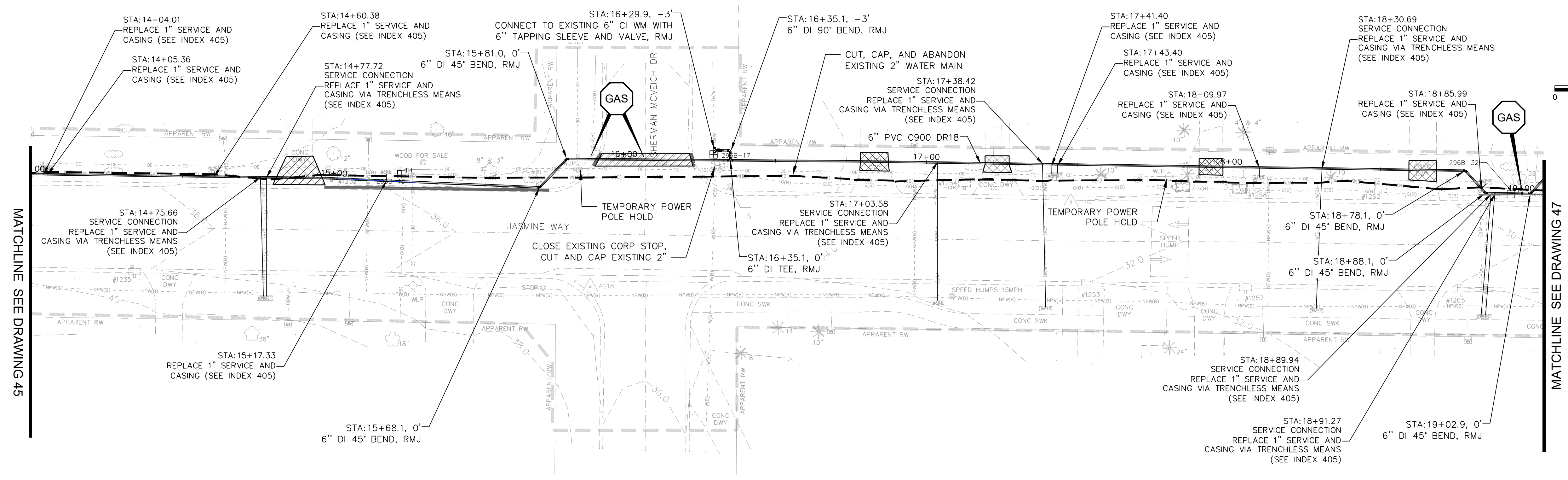
CITY OF CLEARWATER
POTABLE WATER PIPING IMPROVEMENTS - PHASE 2&4&5
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DWG NO: 296B-C01	FIELD BOOK: N/A	SURVEYED BY: ECHO UES	SCALE: VERT. AS NOTED
CONTRACT NO.: 18-0040-UT	DATE DRAWN: 06/2023	DRAWN BY: VVV/PPH	HORIZ. AS NOTED
JOB NO.: 072875	DESIGNED BY: ESW/WTH	CHECKED BY: JRV	SHEET NO.: 45 OF 64

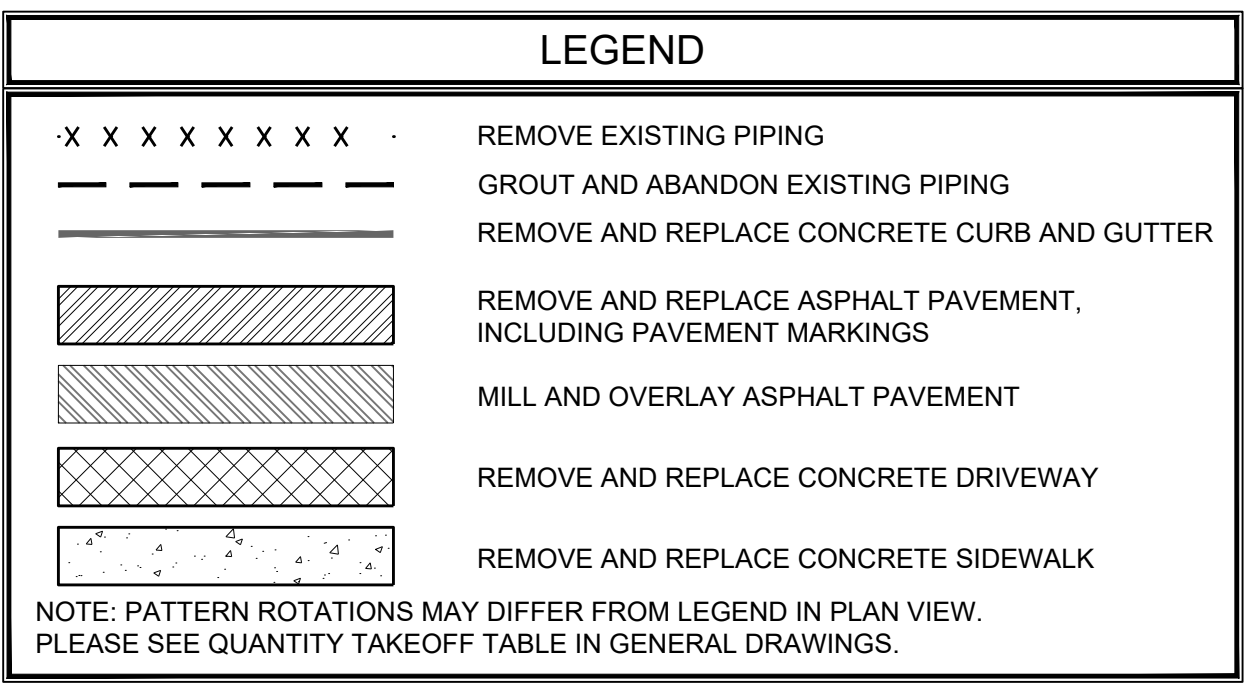
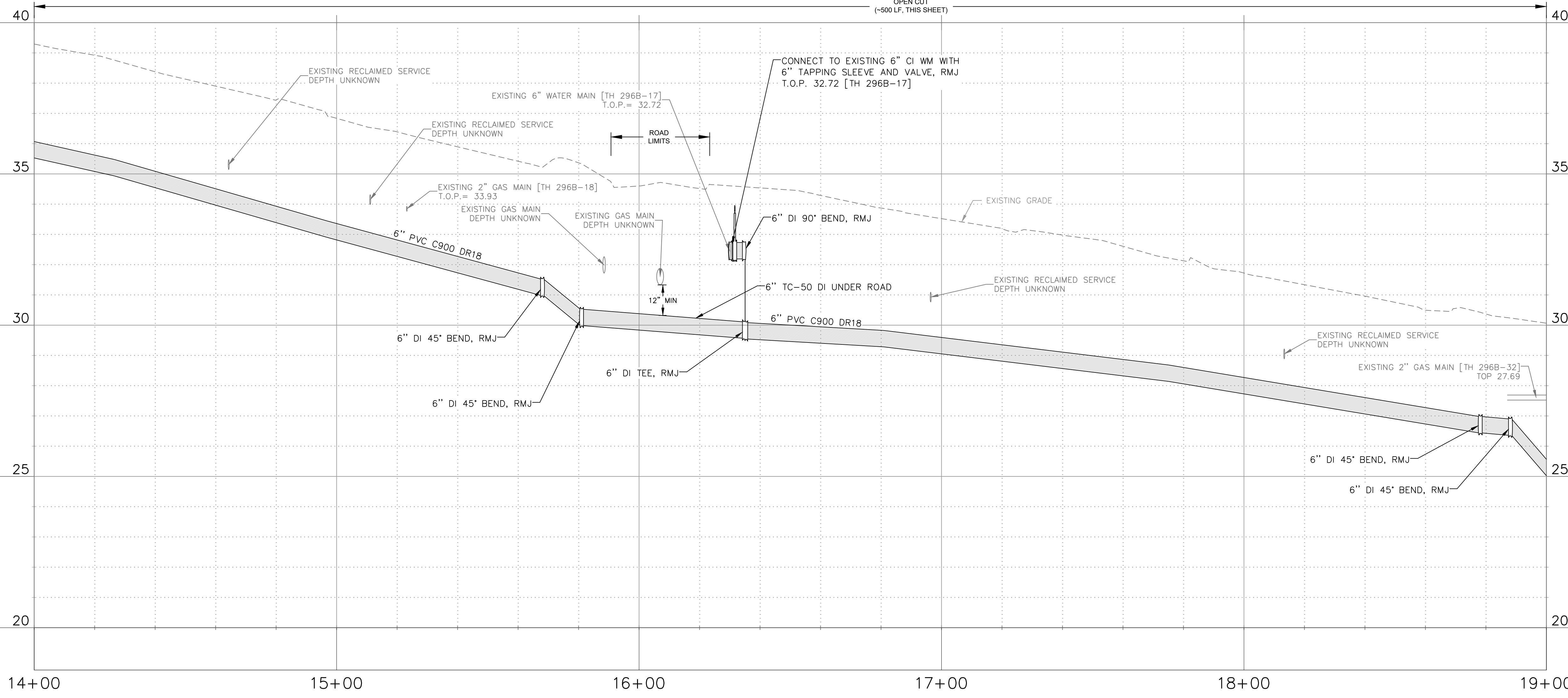
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- GENERAL NOTES**
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 - CONTRACTOR SHALL TEMPORARILY INSTALL AND MAINTAIN A TEMPORARY DRIVING SURFACE (ASPHALT MILLING, ETC.) WHEN REMOVING ANY DRIVEWAYS UNTIL THE DRIVEWAYS ARE PERMANENTLY RESTORED.
 - CONTRACTOR SHALL MAINTAIN ROADWAY ACCESS AT ALL TIMES.
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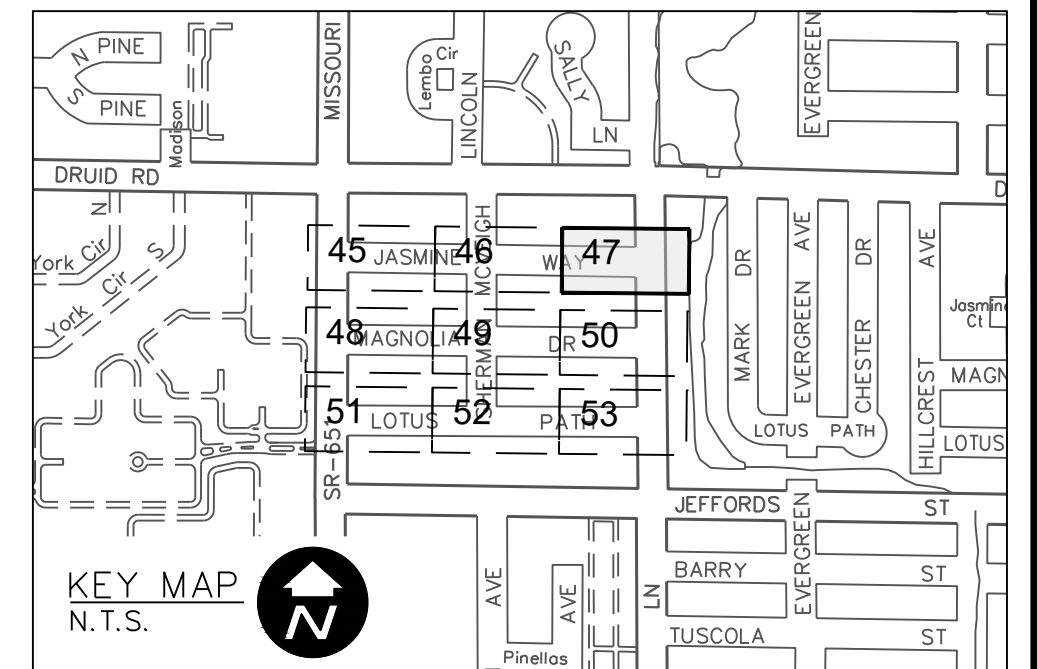
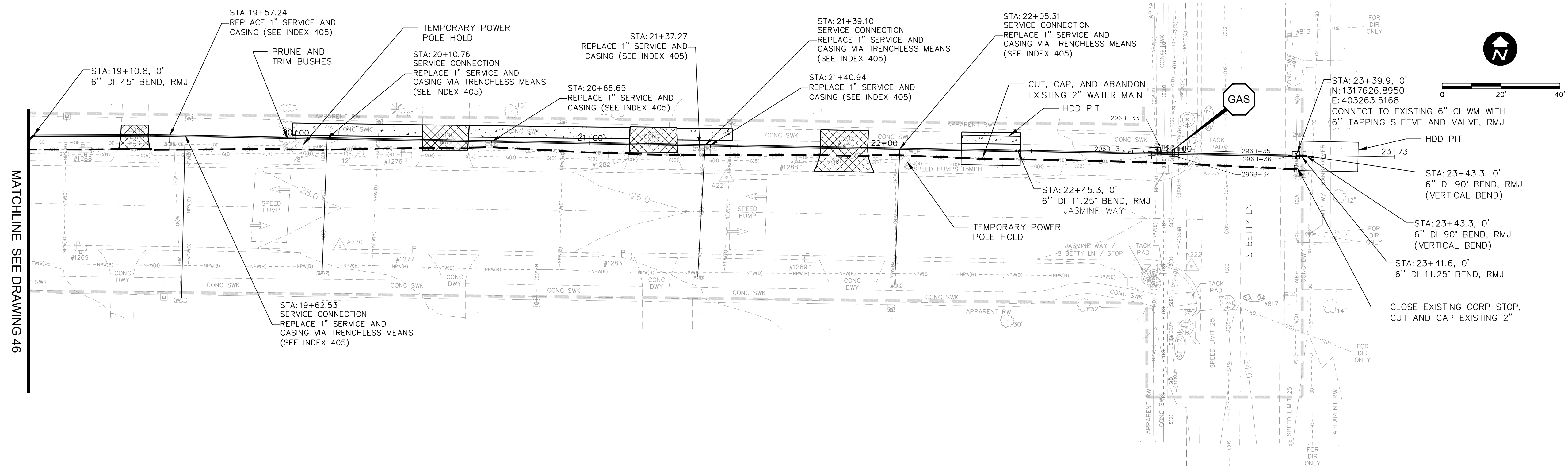
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 JASMINE WAY
 PLAN & PROFILE

DWG NO: 296B-C02	FIELD BOOK: N/A	SURVEYED BY: ECHO UES	SCALE: VERT. AS NOTED
CONTRACT NO.: 18-0040-UT	DATE DRAWN: 06/2023	DRAWN BY: VVV/PPH	HORIZ. AS NOTED
JOB NO.: 072875	DESIGNED BY: BSW/WTH	CHECKED BY: JRV	SHEET NO.: 46 OF 64

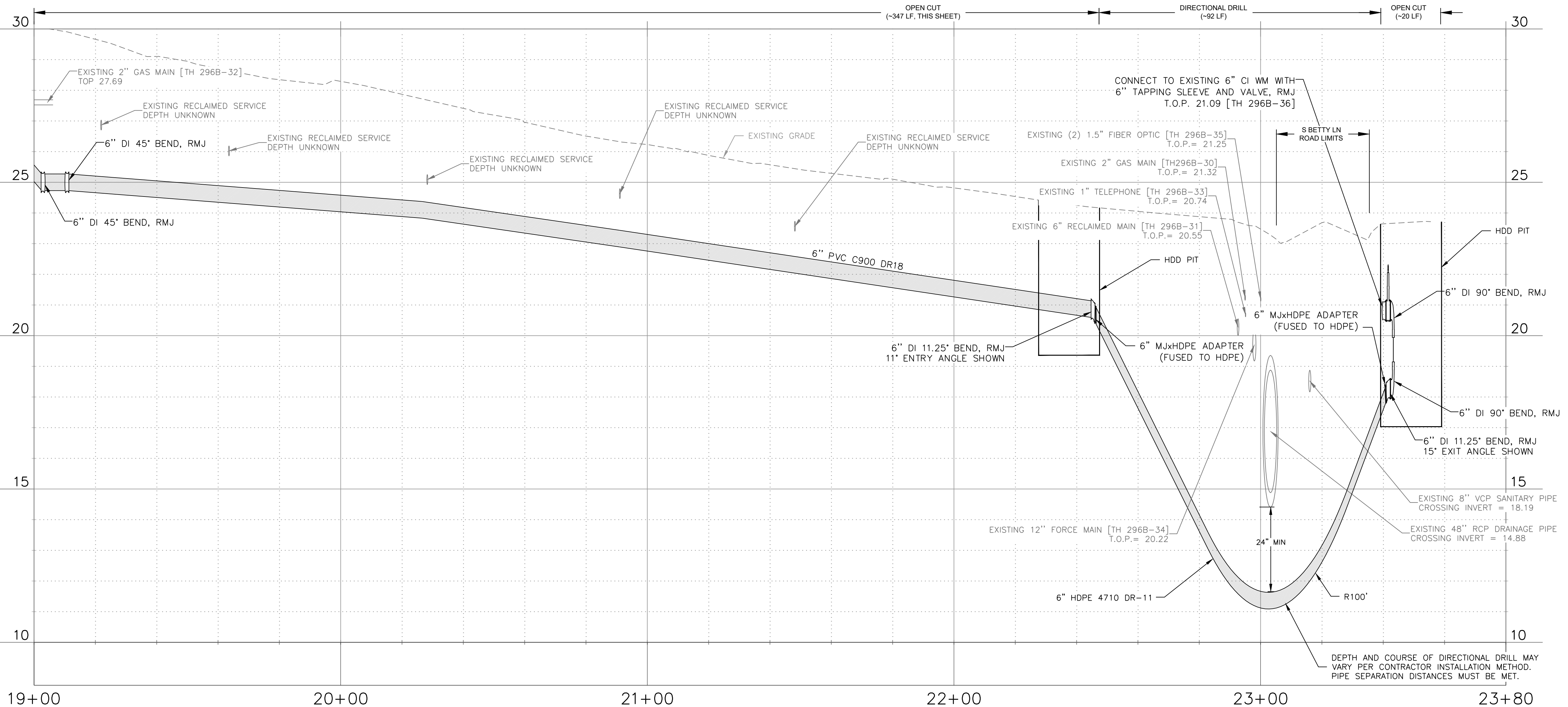
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LEGEND	
X X X X X X X X	REMOVE EXISTING PIPING
---	GROUT AND ABANDON EXISTING PIPING
---	REMOVE AND REPLACE CONCRETE CURB AND GUTTER
▨	REMOVE AND REPLACE ASPHALT PAVEMENT, INCLUDING PAVEMENT MARKINGS
▨	MILL AND OVERLAY ASPHALT PAVEMENT
▨	REMOVE AND REPLACE CONCRETE DRIVEWAY
▨	REMOVE AND REPLACE CONCRETE SIDEWALK

NOTE: PATTERN ROTATIONS MAY DIFFER FROM LEGEND IN PLAN VIEW. PLEASE SEE QUANTITY TAKEOFF TABLE IN GENERAL DRAWINGS.

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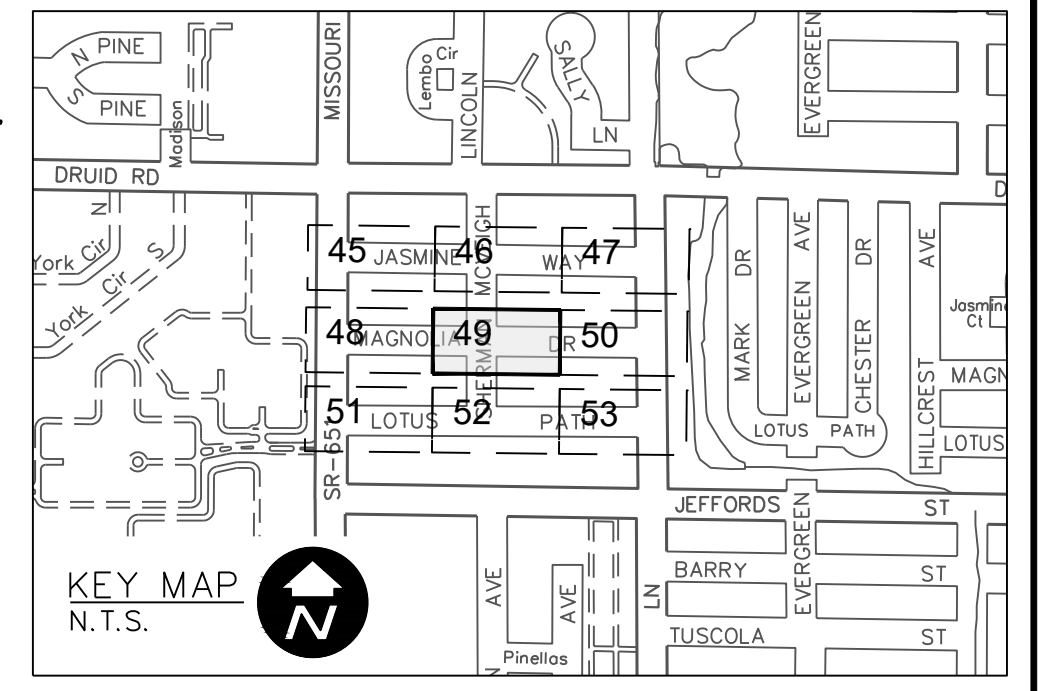
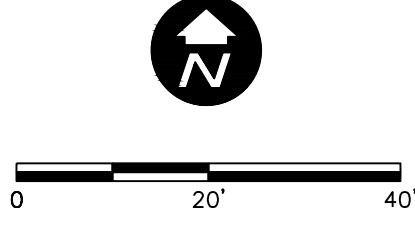
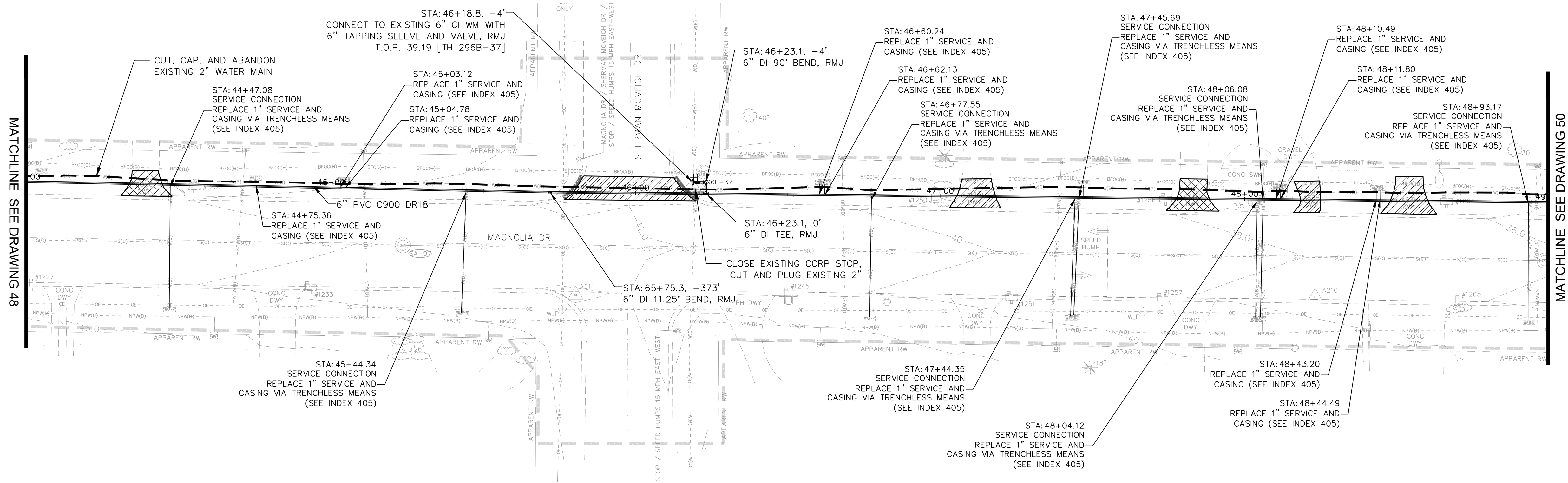
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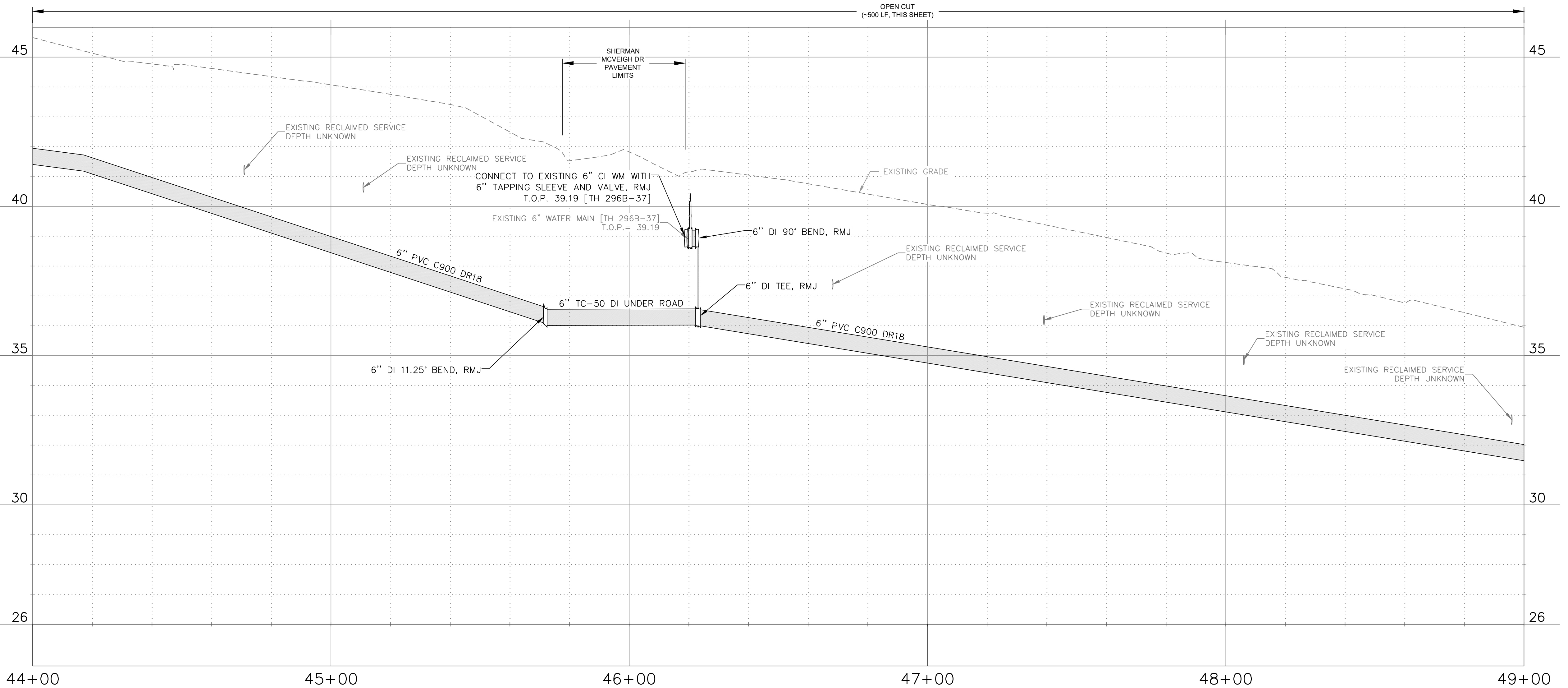
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LEGEND	
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▨ ▨ ▨ ▨ ▨ ▨ ▨ ▨	REMOVE AND REPLACE ASPHALT PAVEMENT, INCLUDING PAVEMENT MARKINGS
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NOTE: PATTERN ROTATIONS MAY DIFFER FROM LEGEND IN PLAN VIEW. PLEASE SEE QUANTITY TAKEOFF TABLE IN GENERAL DRAWINGS.

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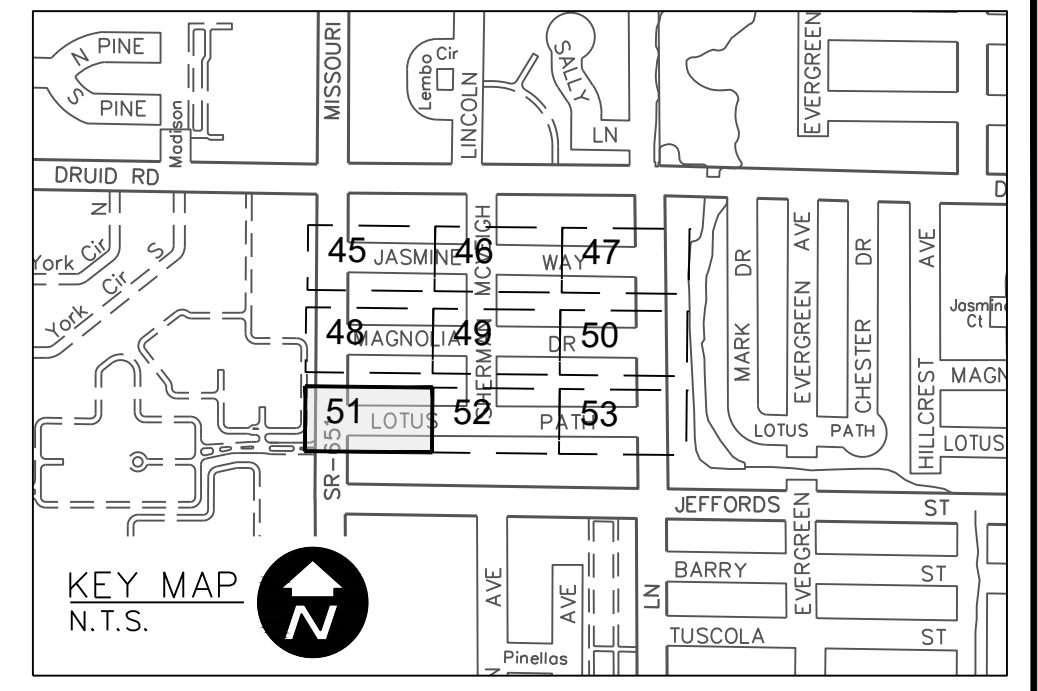
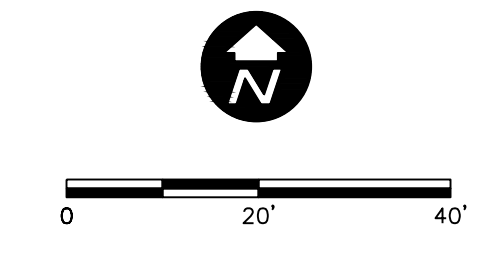
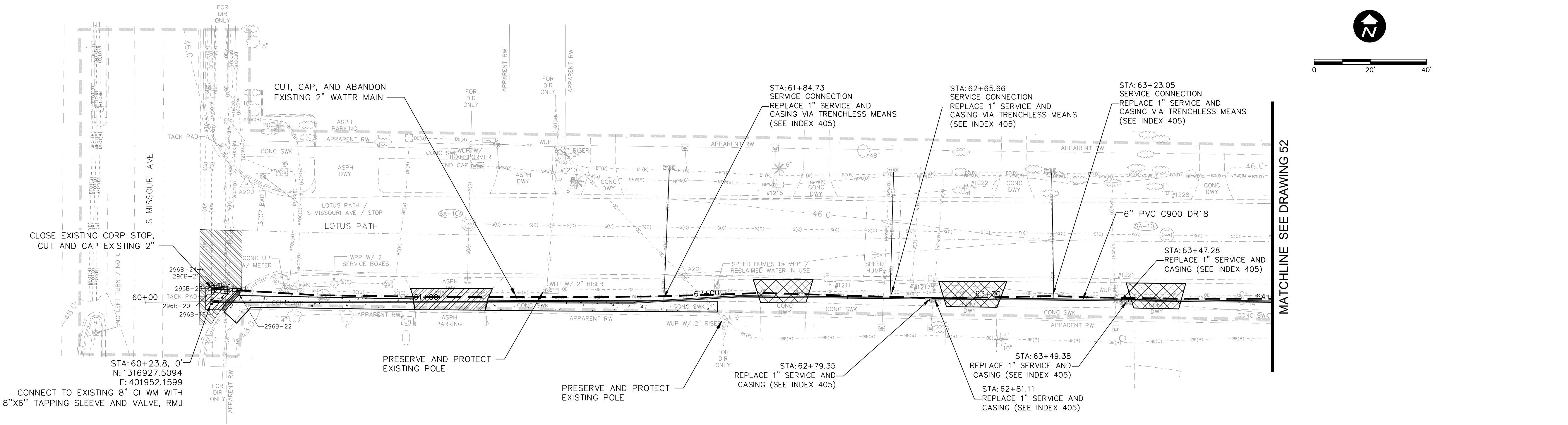


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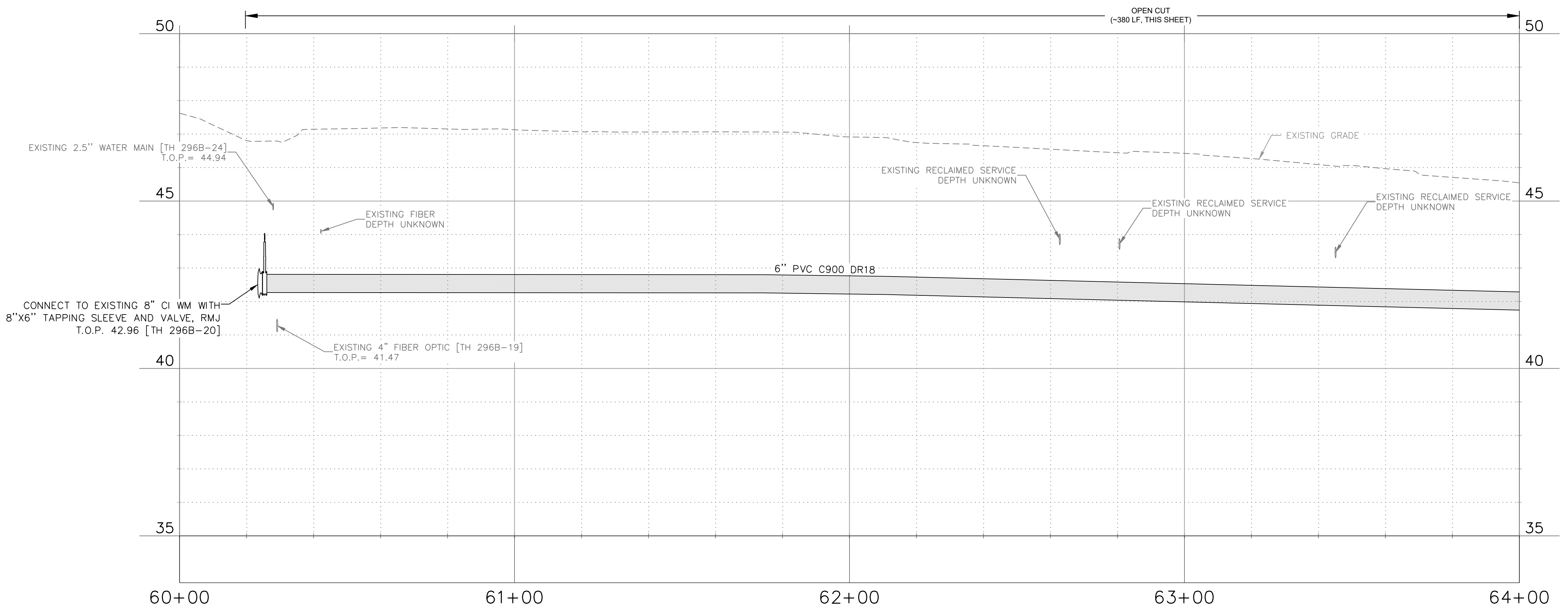
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CONTRACT NO.: 18-0040-UT	DATE DRAWN: 06/2023	DRAWN BY: VVV/PPH	HORIZ. AS NOTED
JOB NO.: 072875	DESIGNED BY: BSW/WTH	CHECKED BY: JRV	SHEET NO.: 49 OF 64

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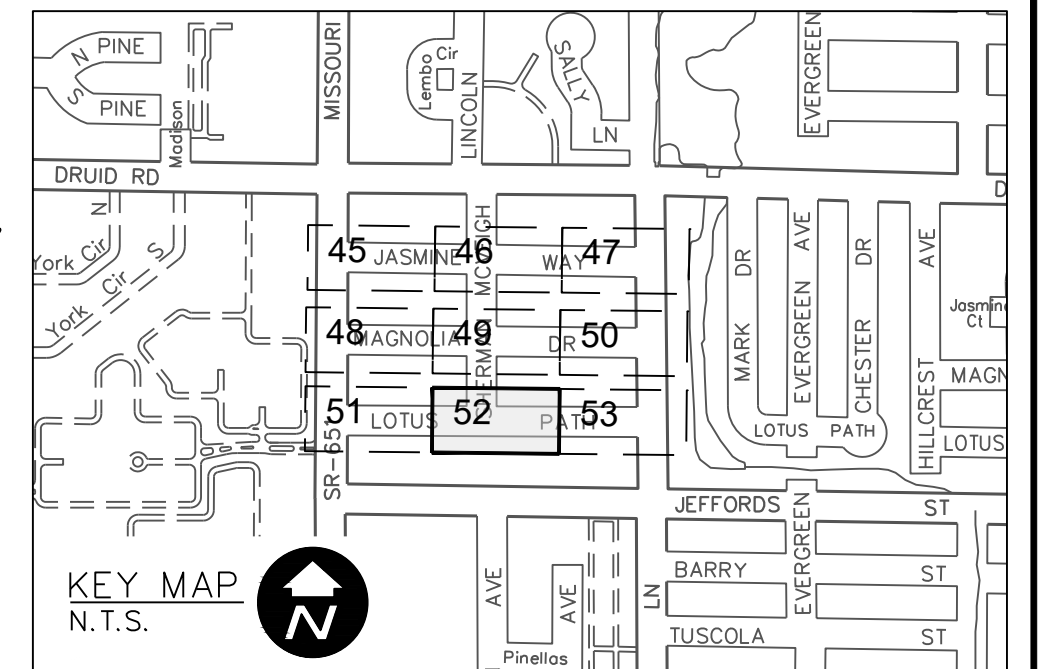
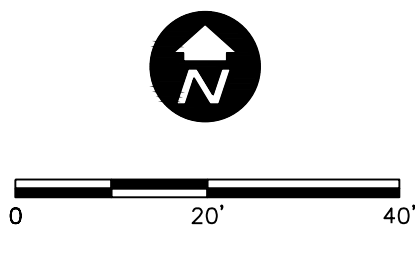
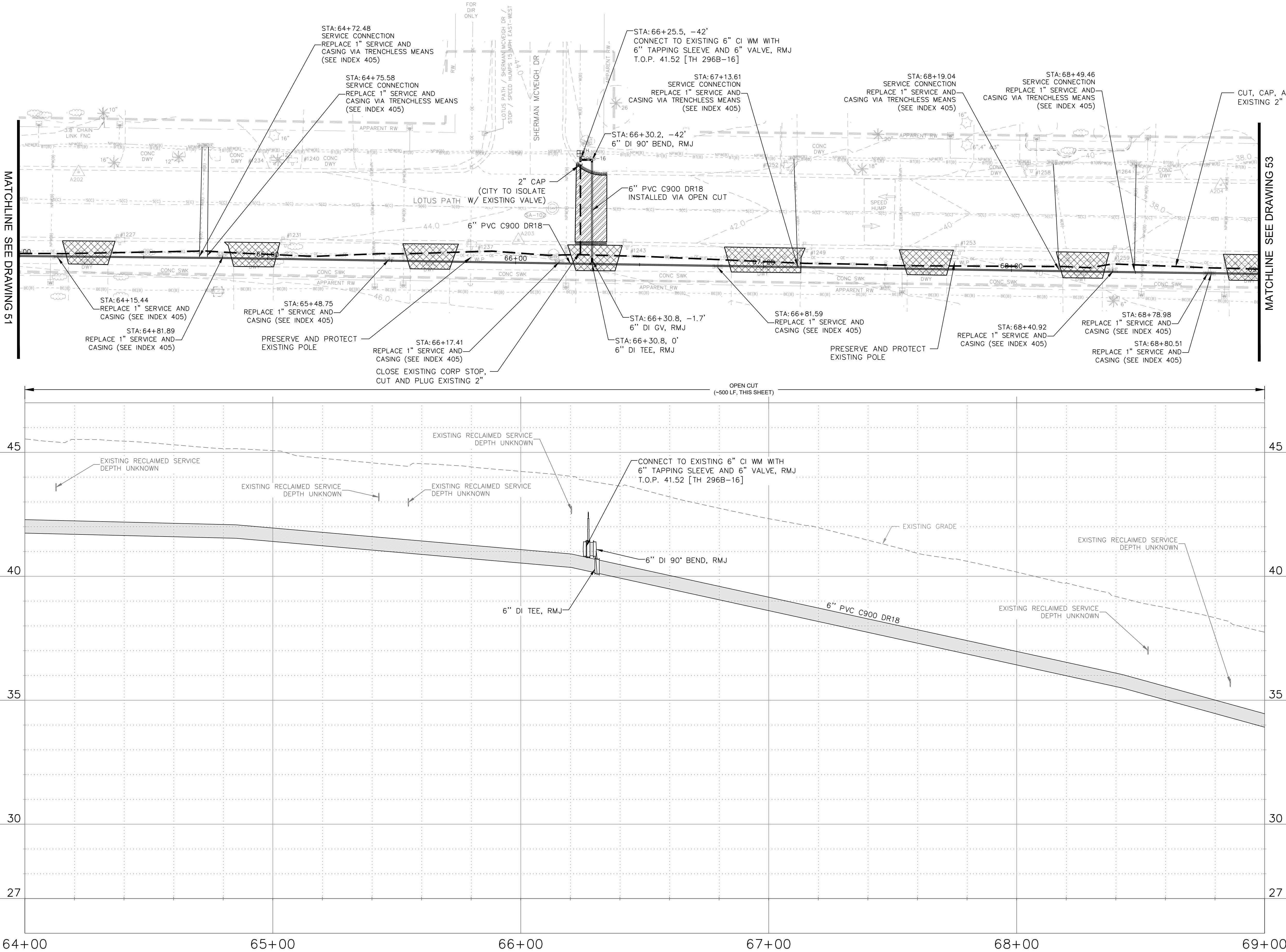
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 TAMPA, FL 33607
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 CERTIFICATE OF AUTHORIZATION #28386

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LEGEND	
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---	GROUT AND ABANDON EXISTING PIPING
---	REMOVE AND REPLACE CONCRETE CURB AND GUTTER
▨	REMOVE AND REPLACE ASPHALT PAVEMENT, INCLUDING PAVEMENT MARKINGS
▨	MILL AND OVERLAY ASPHALT PAVEMENT
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▨	REMOVE AND REPLACE CONCRETE SIDEWALK

NOTE: PATTERN ROTATIONS MAY DIFFER FROM LEGEND IN PLAN VIEW. PLEASE SEE QUANTITY TAKEOFF TABLE IN GENERAL DRAWINGS.

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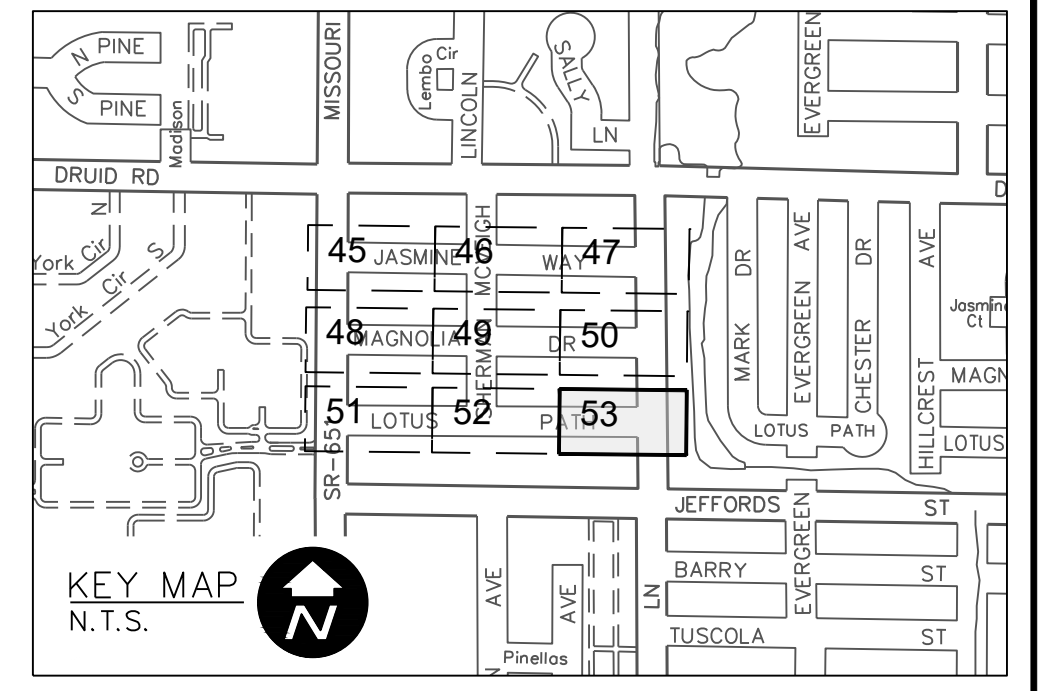
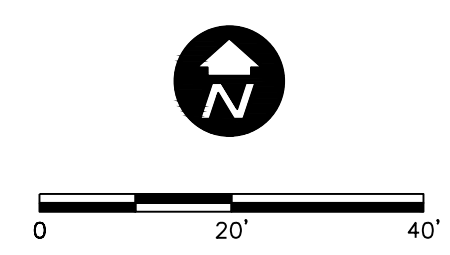
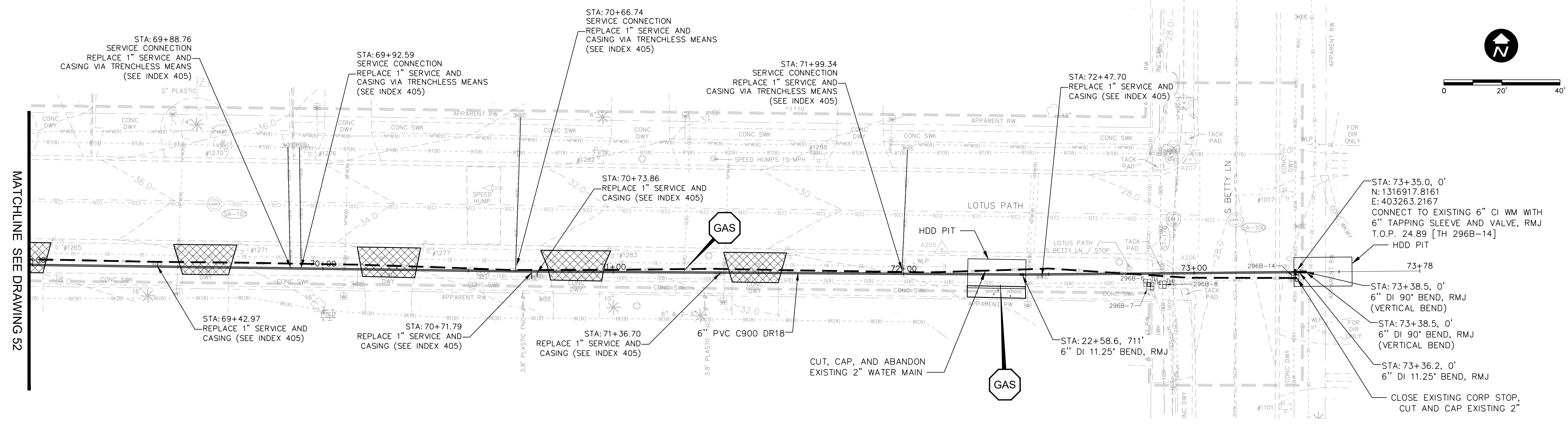
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JOB NO.: 072875	DESIGNED BY: BSW/WTH	CHECKED BY: JRV	SHEET NO.: 52 OF 64

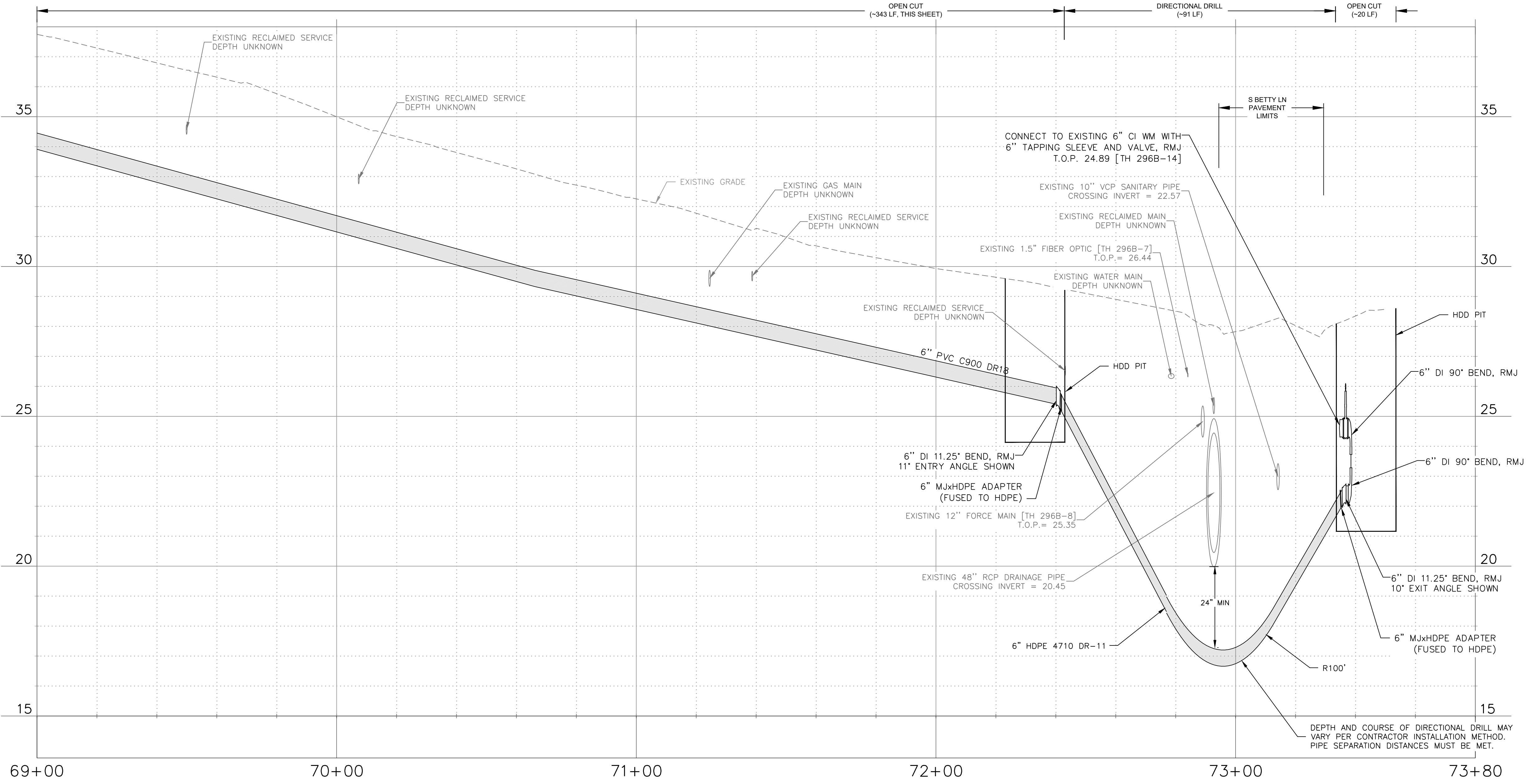
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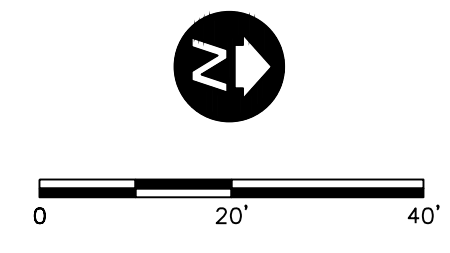
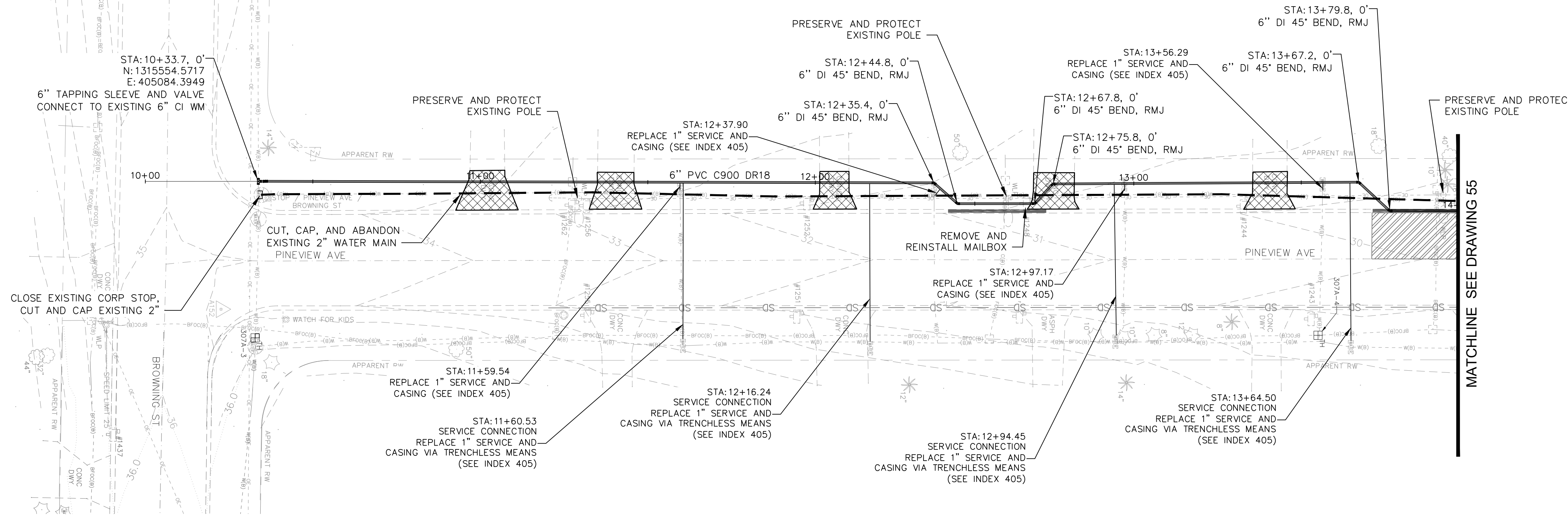
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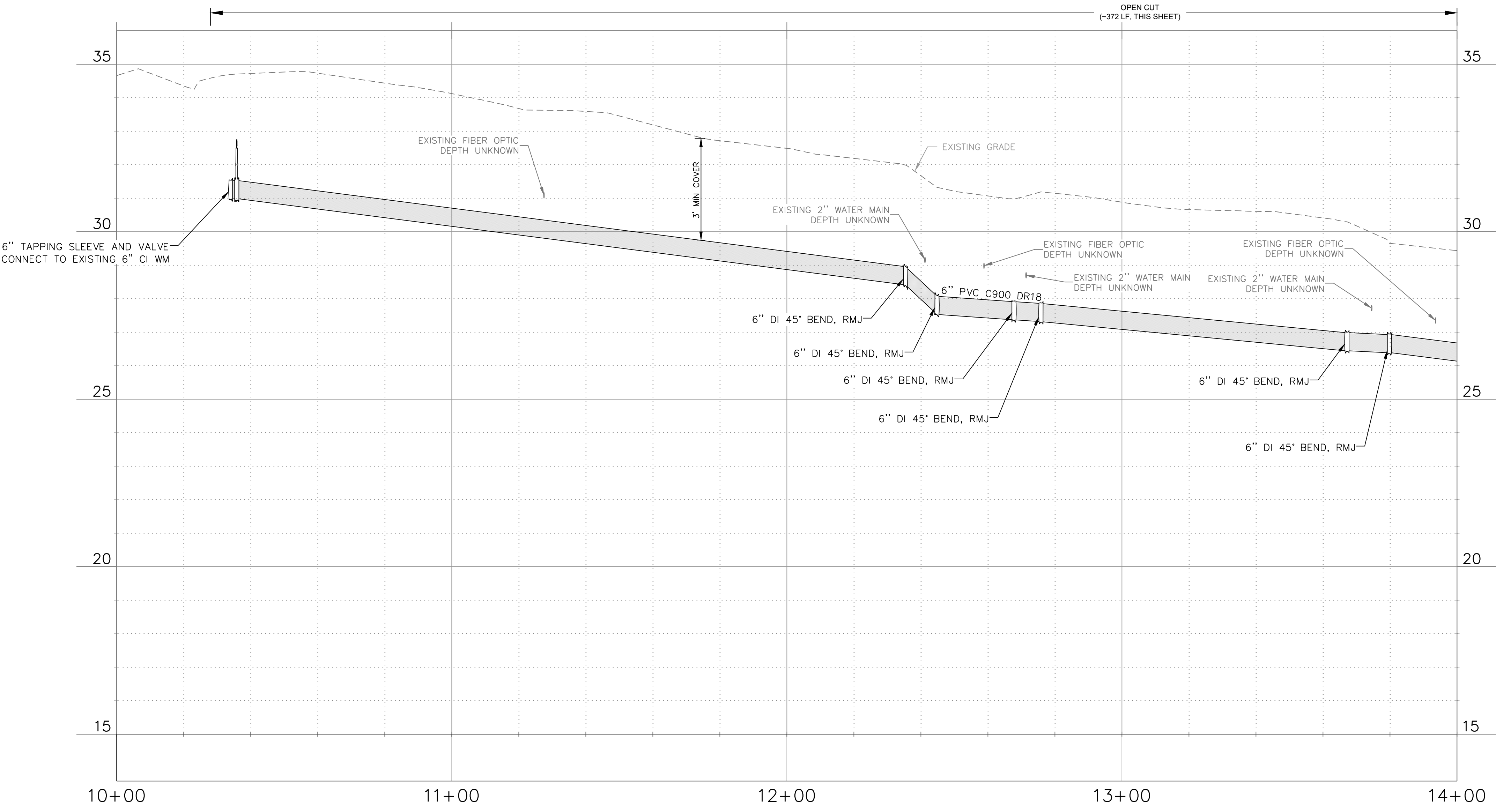
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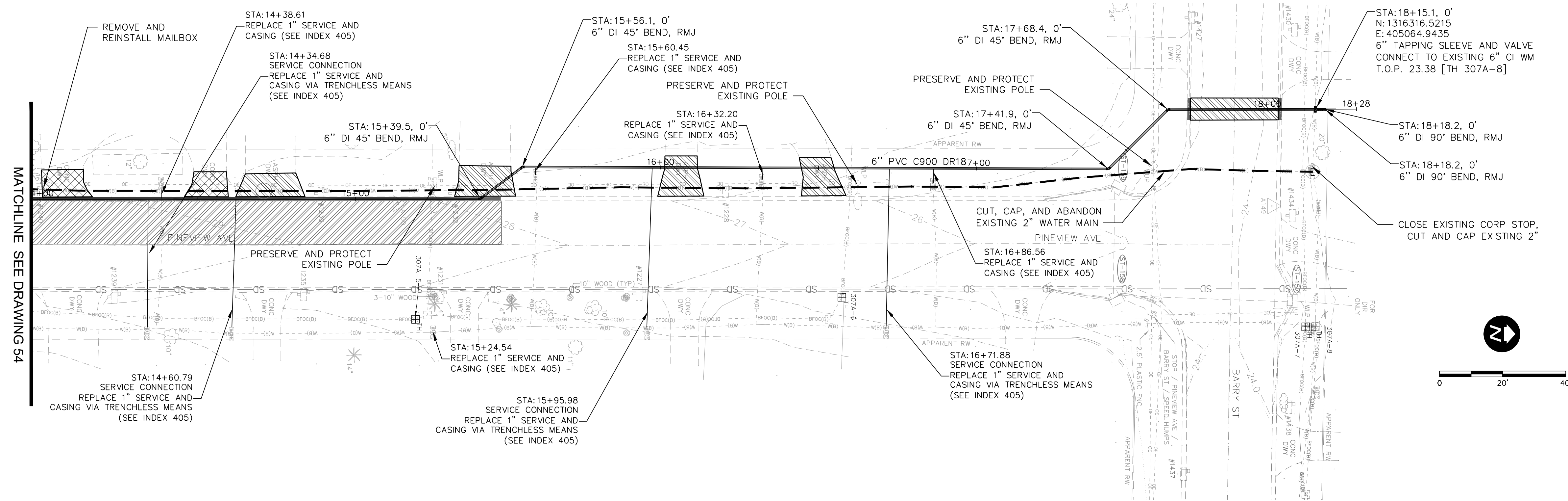
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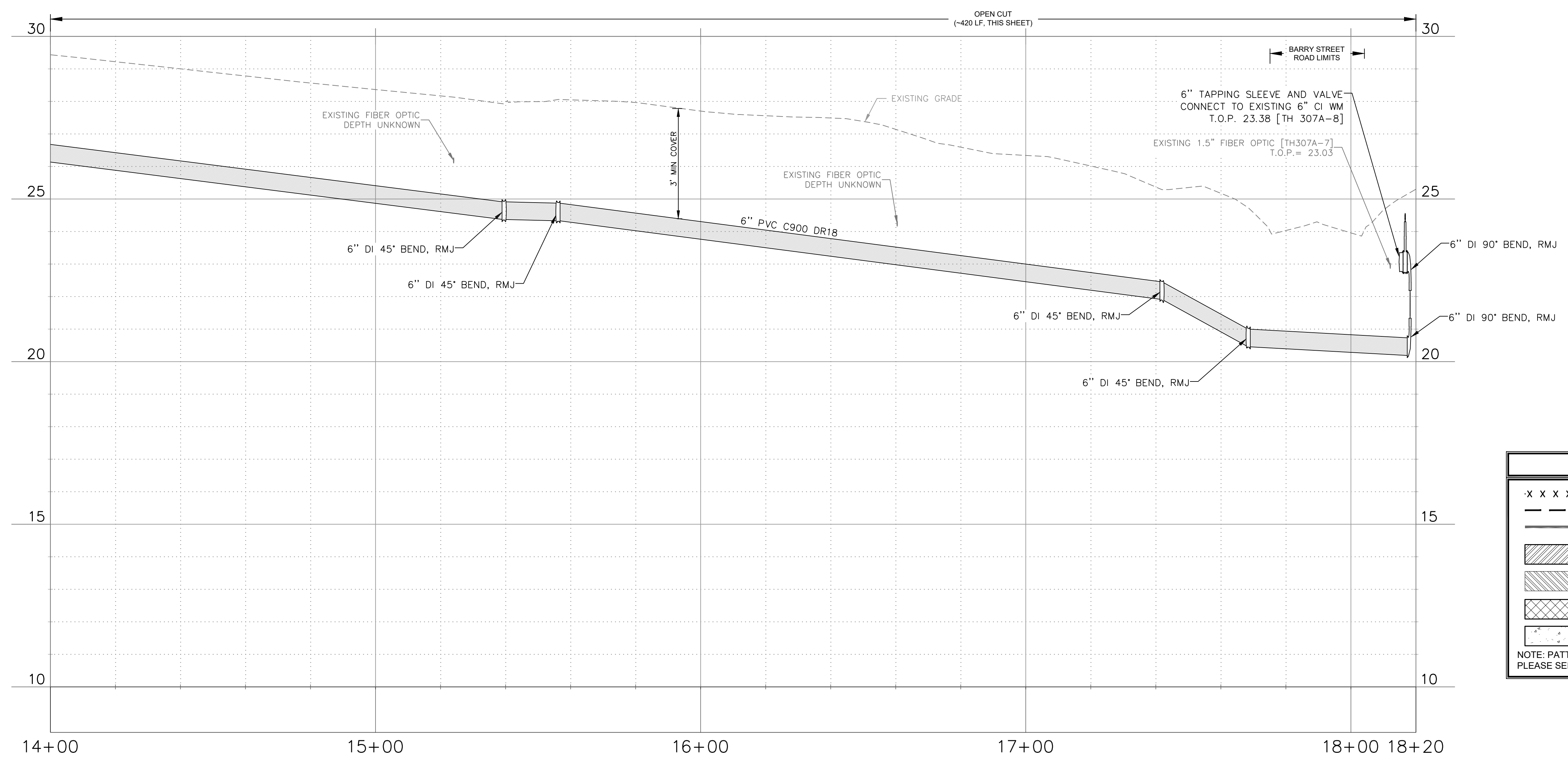
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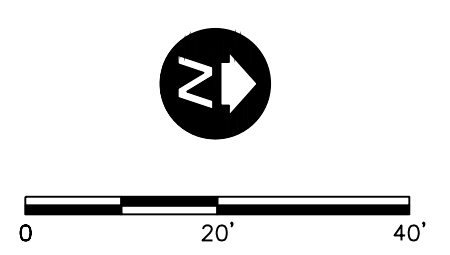
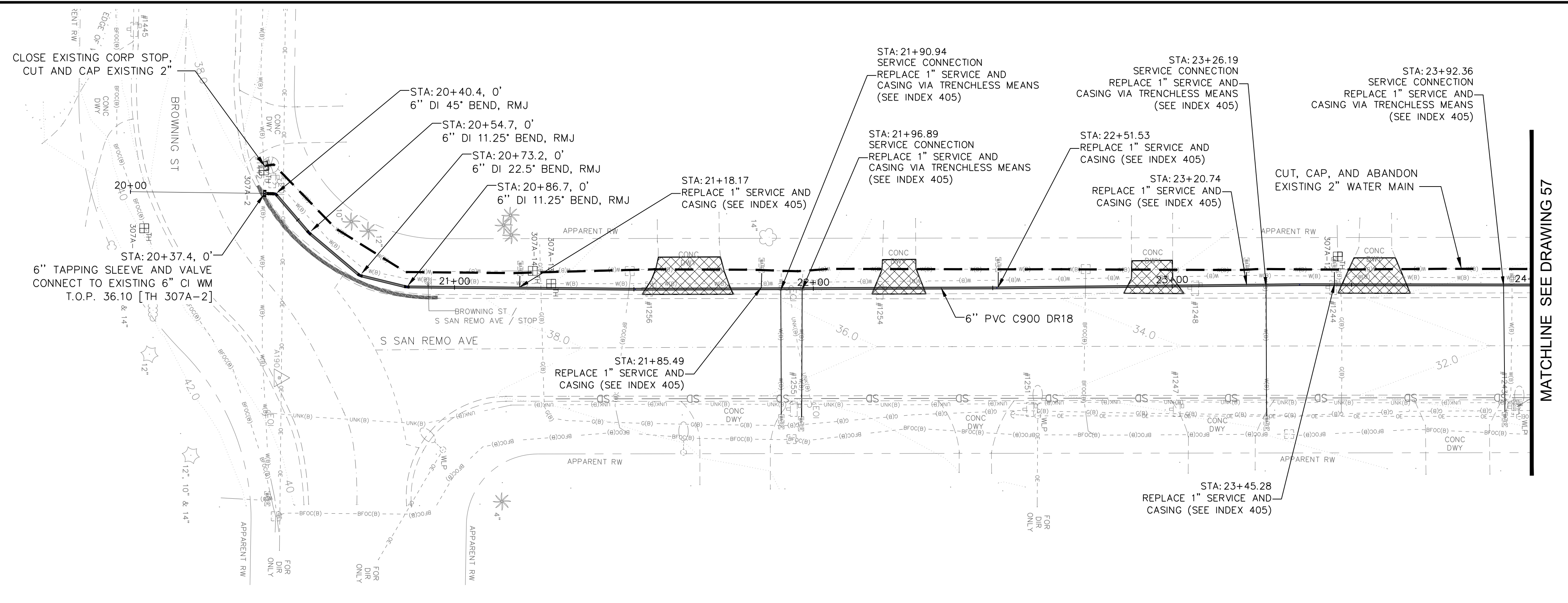
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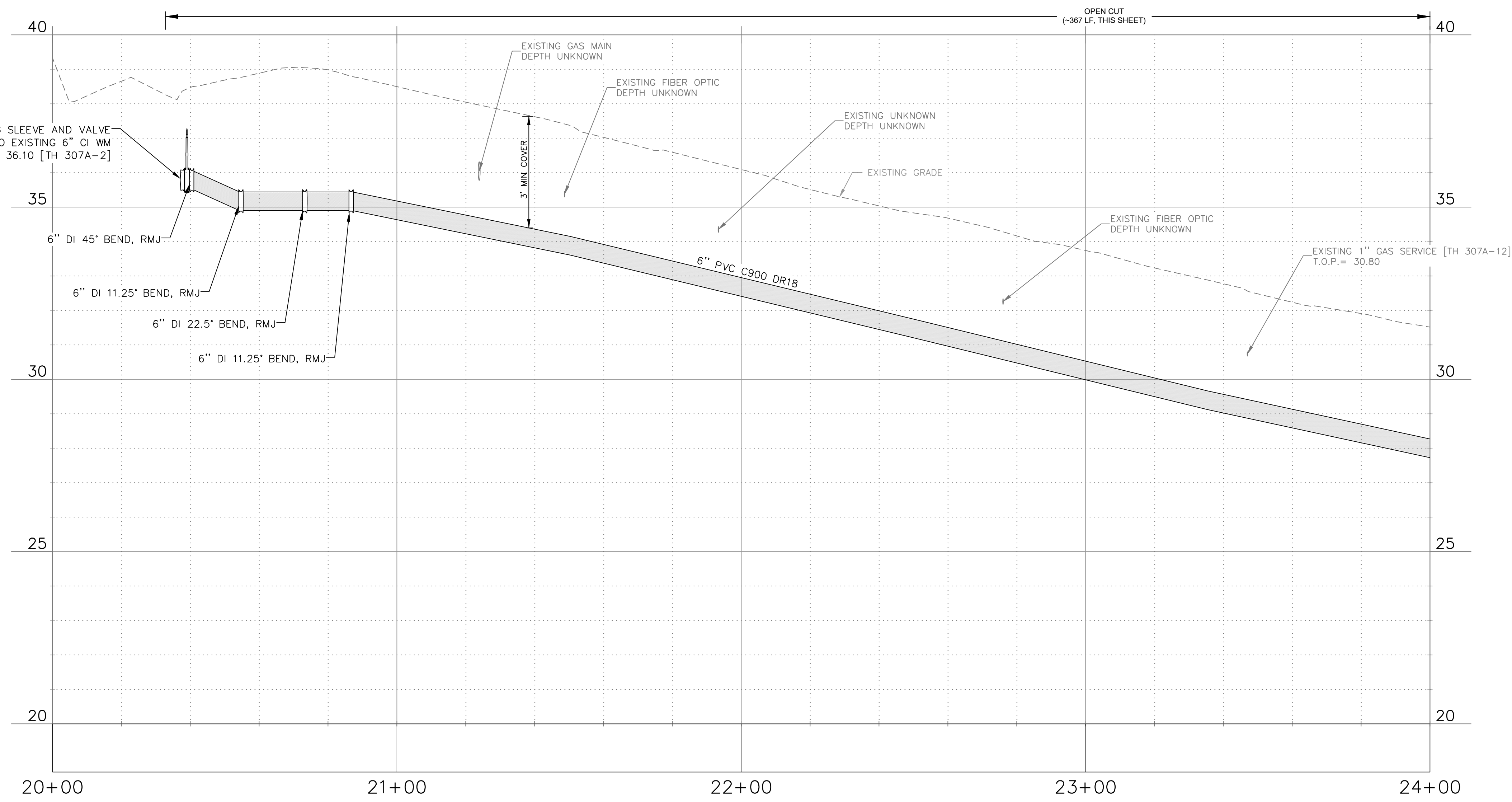
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[Dotted Box]	REMOVE AND REPLACE CONCRETE SIDEWALK

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Parent Sheet Set: 072875-CirWtr_TaskR&P/P&Bt by PAUL HELLER Rev on: 6/19/2023 11:49 AM Individual File Path: C:\Dropbox\Work\FL\Jobs\cha_engineering\072875_clearwater\phase 2 & 4 & 5\cad files\Ph5_307A_072875_C3D_Civil\Sheets

RECORD DRAWINGS	
SURVEYED BY:	DRAWN BY:
REVIEWED BY:	DATE:
PROJECT ENGINEER:	DATE:
APPROVED BY:	DATE:

REVISION	
0: ISSUED FOR BID	VVV 06/2023
BY	DATE

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

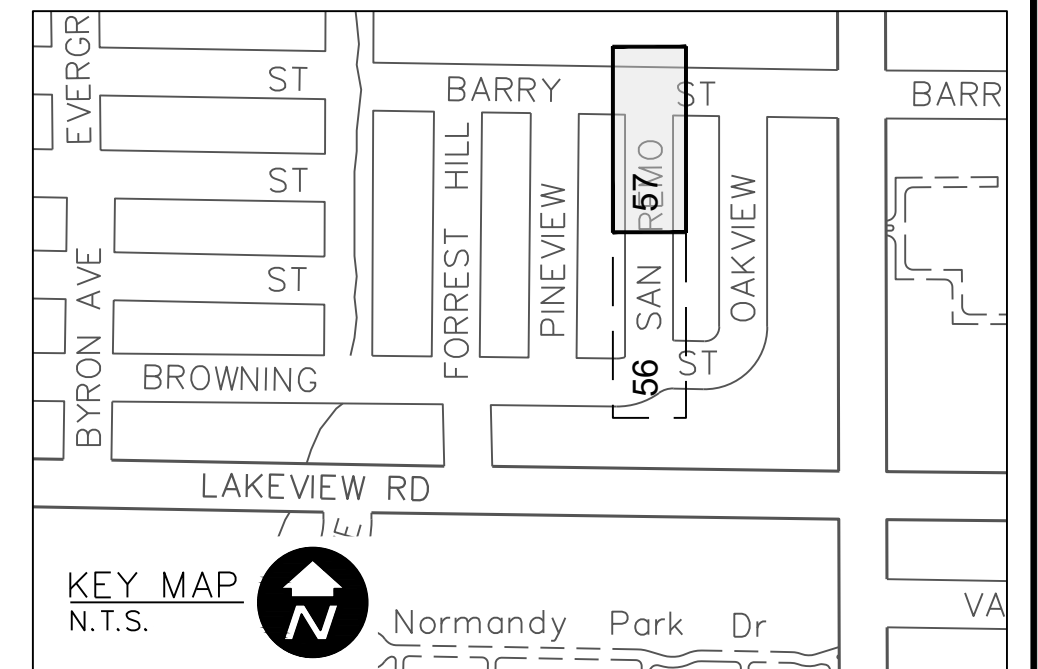
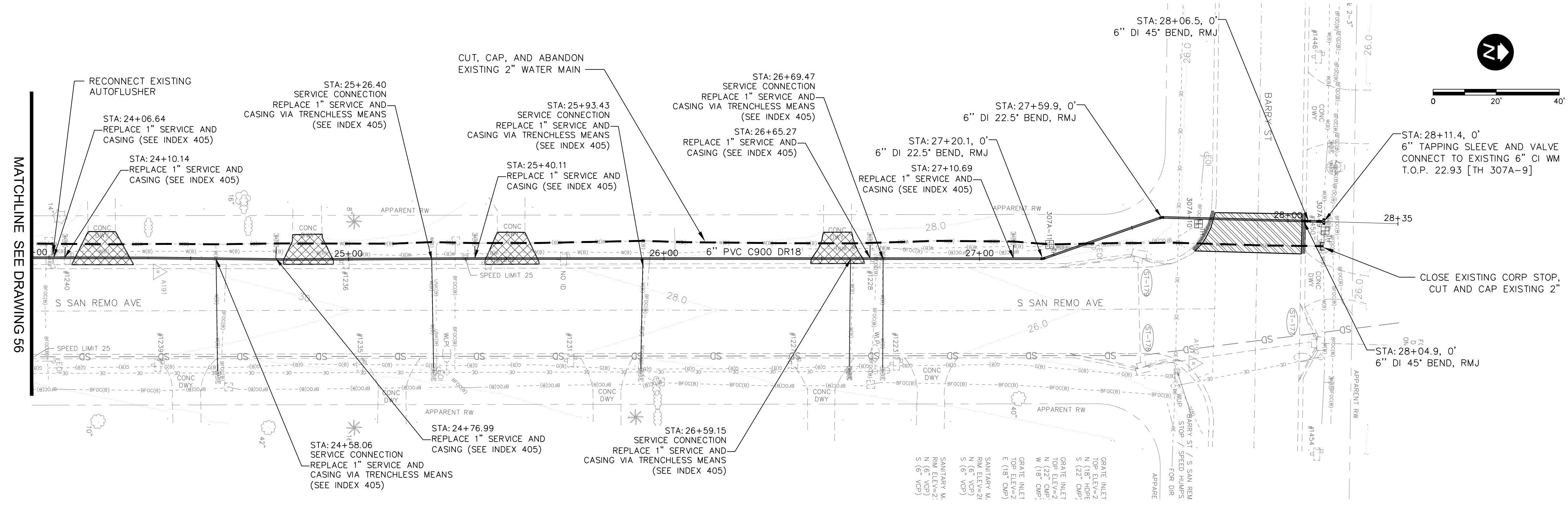


CITY OF CLEARWATER
POTABLE WATER PIPING IMPROVEMENTS - PHASE 2&4&5
 VALUE
 PLAN & PROFILE

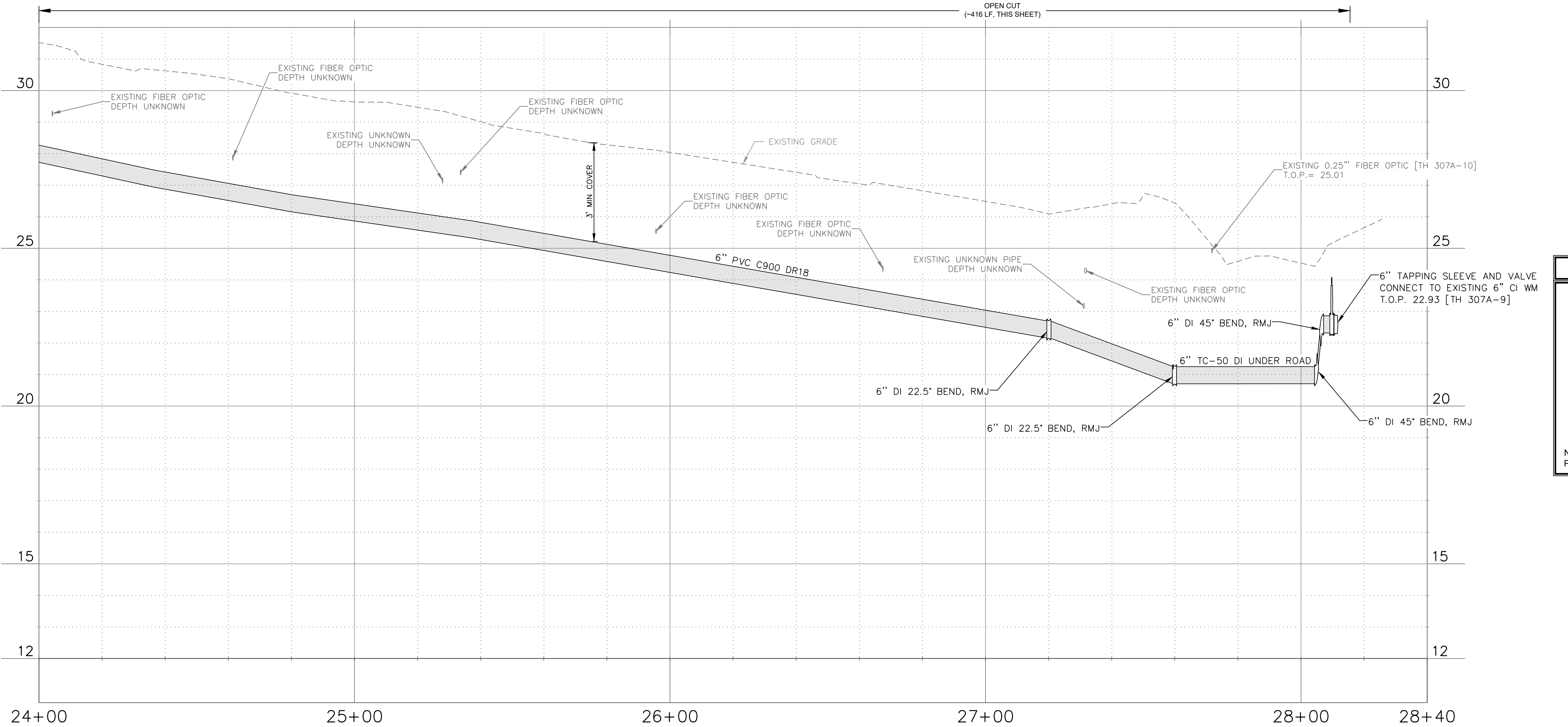
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CONTRACT NO.:	18-0040-UT	DATE DRAWN:	06/2023	DRAWN BY:	VVV/PPH	HORIZ. AS NOTED	
JOB NO.:	072875	DESIGNED BY:	ESW/WTH	CHECKED BY:	JRV	SHEET NO.:	56 OF 64

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CHA CONSULTING, INC.
 3507 EAST FRONTAGE ROAD SUITE 100
 TAMPA, FL 33607
 TEL: (813) 549-8919
 CERTIFICATE OF AUTHORIZATION #28386



- GENERAL NOTES**
- MINIMUM SEPARATION BETWEEN PROPOSED WATER MAIN AND EXISTING GAS MAIN SHALL BE 3'.
 - DEFLECT PIPE AT JOINTS MAXIMUM 75% OF MANUFACTURERS ALLOWABLE DEFLECTION.
 - CONTRACTOR SHALL TEMPORARILY INSTALL AND MAINTAIN A TEMPORARY DRIVING SURFACE (ASPHALT MILLINGS, ETC.) WHEN REMOVING ANY DRIVEWAYS UNTIL THE DRIVEWAYS ARE PERMANENTLY RESTORED.
 - CONTRACTOR SHALL MAINTAIN ROADWAY ACCESS AT ALL TIMES.
 - INSTALL 1" RESIDENTIAL OR 2" COMMERCIAL SERVICE LINE AND PW METER BOX ADJACENT TO EACH EXISTING WATER METER/PARCEL (5' MIN SEPARATION), ON BOTH SIDES OF ROW WITH SHORT SERVICES AND LONG SERVICES WITH CASINGS, IN ACCORDANCE WITH CITY INDEX DETAILS. FOR NEW SERVICES, CONTRACTOR TO CONFIRM LOCATION AND PLACEMENT OF SERVICE METER BOXES WITH CITY INSPECTOR AND/OR CITY'S REPRESENTATIVE.
 - CONTRACTOR SHALL VERIFY LOCATION, MATERIAL, AND DEPTH OF EXISTING INFRASTRUCTURE PRIOR TO CONSTRUCTION.
 - CONTRACTOR SHALL MAINTAIN WATER SERVICE AT ALL TIMES TO CUSTOMERS. ANY INTERRUPTIONS SHALL BE COORDINATED WITH THE CITY WITH MINIMUM 10 DAY NOTICE.
 - ONLY THE CITY MAY TURN EXISTING VALVES. IF POTABLE WATER MAIN ISOLATION IS REQUIRED, THE CONTRACTOR SHALL NOTIFY THE CITY AND RPR INSPECTOR.
 - CONTRACTOR TO INSTALL TREE PROTECTION AS NECESSARY IN ACCORDANCE WITH CITY STANDARD DETAIL 909. CONTRACTOR SHALL COORDINATE WITH ARBORIST FOR PROPER COMPLETION OF TREE PROTECTION AND ROOT PRUNING IN ACCORDANCE WITH CITY SPECIFICATIONS.
 - CONTRACTOR TO COORDINATE WITH GAS UTILITY OWNER FOR ANY NECESSARY REQUIREMENTS DURING CONSTRUCTION.
 - CONTRACTOR SHALL VERIFY ALL CUSTOMERS/BUILDINGS HAVE WATER SERVICE PRIOR TO CUTTING AND CAPPING EXISTING WATER MAINS.
 - CONTRACTOR SHALL RECONNECT NEW WATER SERVICE LINES TO THE EXISTING METER LOCATION UNDER SUPERVISION OF THE CITY'S REPRESENTATIVE CONSTRUCTION INSPECTOR.
 - CONTRACTOR SHALL ADJUST ALL WATER METER(S) TO CURRENT GRADE.
 - CONTRACTOR SHALL RESTRAIN EXISTING MAINS AS NECESSARY IN ACCORDANCE WITH CITY STANDARD DETAIL 407. WHERE INSTALLATION OF RESTRAINTS MAY REQUIRE EXCAVATION OF ROADWAY, CONTRACTOR SHALL COORDINATE WITH CITY AND CITY'S REPRESENTATIVE TO CONFIRM RESTRAINING PRIOR TO INSTALLATION.
 - CONTRACTOR SHALL HAVE FIELD MEETING WITH THE CITY AND/OR RPR INSPECTOR PRIOR TO INSTALLATION OF ANY TEAM'S INSERT VALVE, TO CONFIRM IF EXISTING VALVES MAY ISOLATE THE MAIN IN LIEU OF A TEAM'S INSERT VALVE.
 - CONTRACTOR SHALL HAVE OR USE A CERTIFIED PLUMBING CONTRACTOR TO INSTALL THE CUSTOMER SIDE SERVICES AND SHALL OBTAIN CITY PLUMBING PERMITS.



LEGEND

- X X X X X X X -	REMOVE EXISTING PIPING
---	GROUT AND ABANDON EXISTING PIPING
---	REMOVE AND REPLACE CONCRETE CURB AND GUTTER
▨	REMOVE AND REPLACE ASPHALT PAVEMENT, INCLUDING PAVEMENT MARKINGS
▨	MILL AND OVERLAY ASPHALT PAVEMENT
▨	REMOVE AND REPLACE CONCRETE DRIVEWAY
▨	REMOVE AND REPLACE CONCRETE SIDEWALK

NOTE: PATTERN ROTATIONS MAY DIFFER FROM LEGEND IN PLAN VIEW. PLEASE SEE QUANTITY TAKEOFF TABLE IN GENERAL DRAWINGS.

Parent Sheet Set: 072875-CirWtr_TaskR&P/P&Bt by PAUL HELLER Rev on: 6/19/2023 11:49 AM Individual File Path: C:\Dropbox\Work\FL\Jobs\cha_engineering\072875_clearwater\phase 2 & 4 & 5\cad files\Ph5_307A_072875_C3D_Civil\Sheets

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SURVEYED BY:	DRAWN BY:
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PROJECT ENGINEER:	DATE:
APPROVED BY:	DATE:

REVISION	BY	DATE
0: ISSUED FOR BID	VVV	06/2023

CITY OF CLEARWATER, FLORIDA
PUBLIC WORKS DEPARTMENT - ENGINEERING
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 CLEARWATER, FL 33756



CITY OF CLEARWATER
POTABLE WATER PIPING IMPROVEMENTS - PHASE 2&4&5
 VALUE
 PLAN & PROFILE

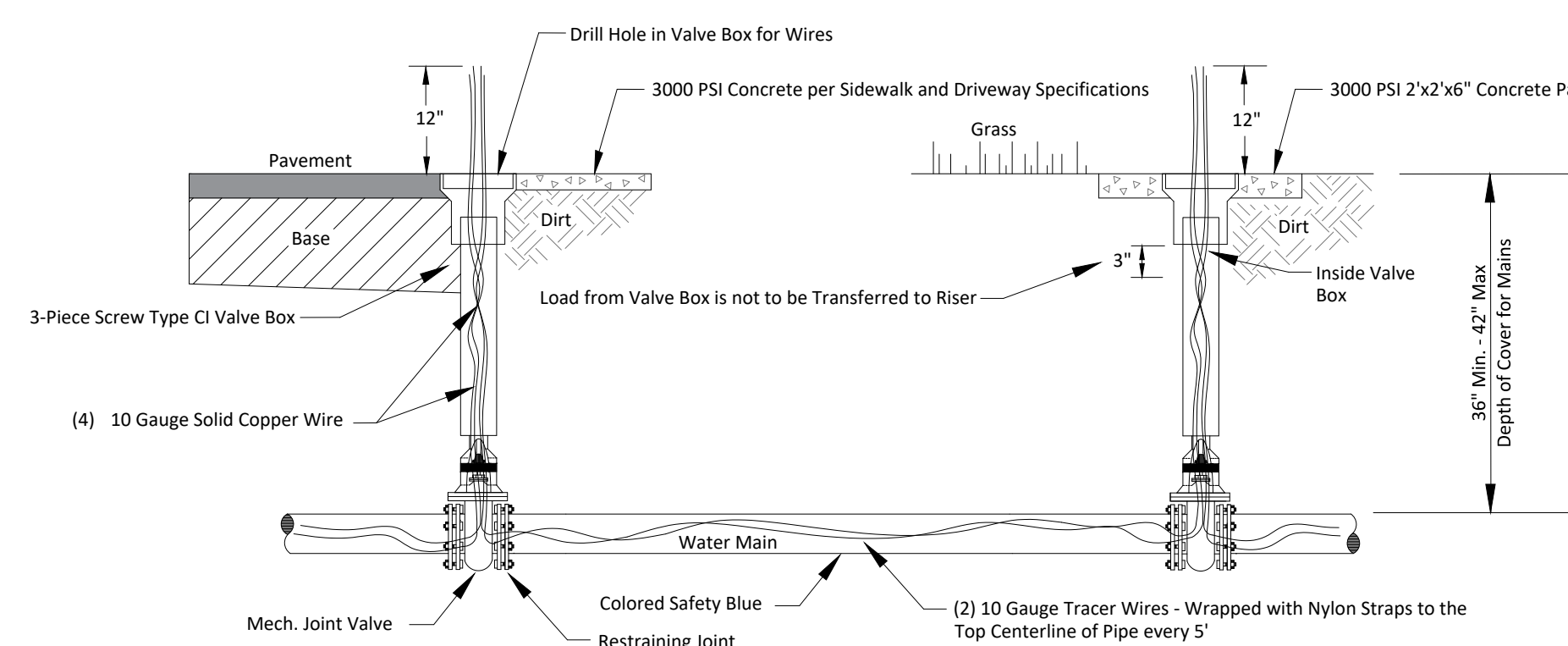
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JOB NO.:	072875	DESIGNED BY:	ESW/WTH	CHECKED BY:	JRV	SHEET NO.:	57 OF 64

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ROADWAY/SIDEWALK INSTALLATION

GREEN SPACE INSTALLATION



- NOTES: 1. Must Center Operation Nut in Box. 2. Gate Valves Shall be Open Left Turn Only. 3. Valve Key Extensions Required on Valves with Operator Nut over 3' Deep. 4. Tracer Wire Required in all Applications including on Ductile Iron Pipe and Colored "Safety Blue". 5. See also City of Clearwater's Technical Specification Section IV and Preferred Product List.

CITY OF CLEARWATER PUBLIC WORKS - ENGINEERING 2022 DESIGN STANDARDS

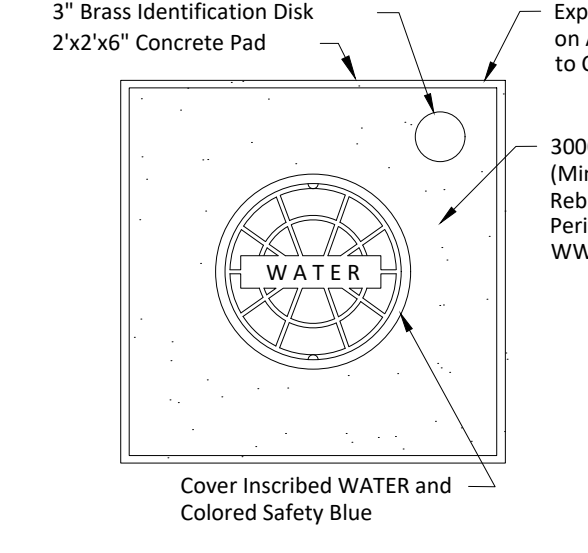
400 SERIES: POTABLE WATER DETAILS

TYPICAL VALVE AND BOX SETTING

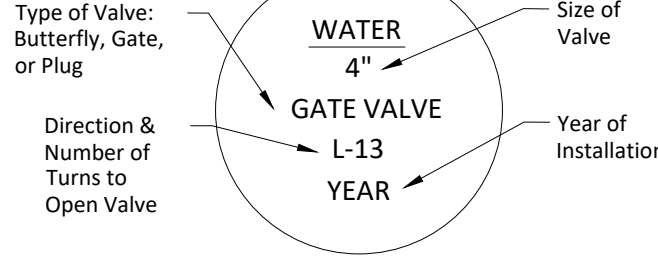
INDEX NO. 402 PAGE NO. 1 OF 2 LATEST REVISION 3/2022

NOTES:

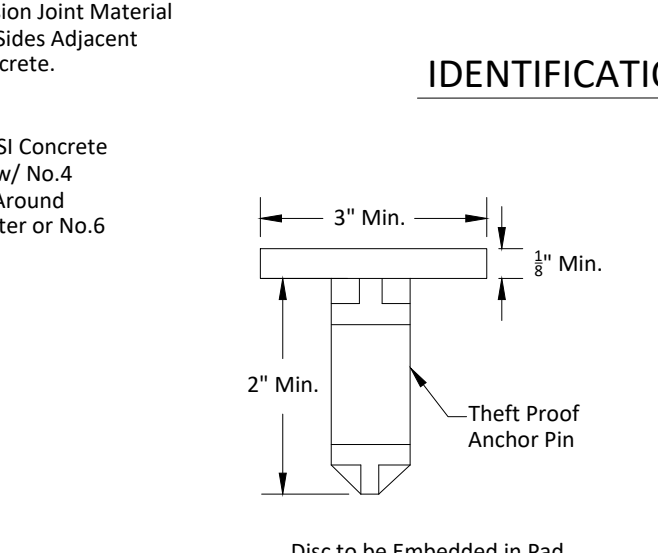
- 1. Extension on Valve Box Shall be set so as to Reserve 1/2 of the Adjustment Length for Future use. 2. Valve Key Extension Required on Valves with Operator Nut over 3' Deep. 3. Terminate Insulated, Solid 12 Gauge Copper Tracer Wire at 12" Above Box Cover. 4. Valve Box to be Centered in Concrete Slab Green Space only. 5. A Concrete Slab Shall not be Installed Where the Valve Box is Located Inside Pavement. 6. See also City of Clearwater's Technical Specification Section IV and Preferred Product List.



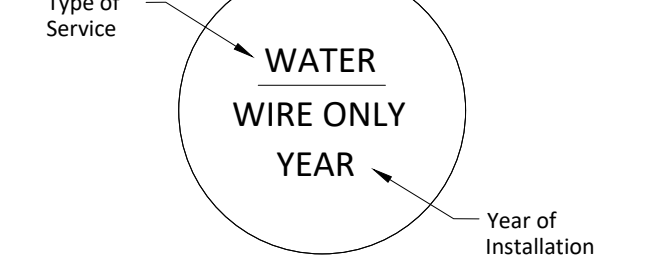
WATER VALVE BOX CONCRETE PAD PLAN VIEW



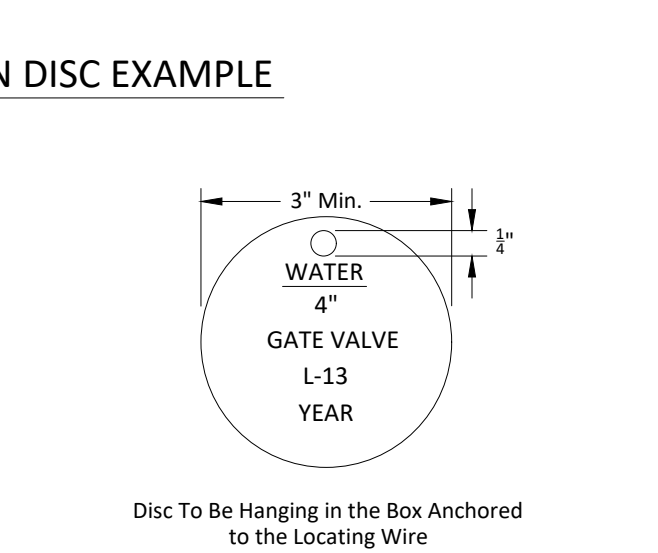
3" BRASS IDENTIFICATION DISK-TRACER WIRE STATION



IDENTIFICATION DISK EXAMPLE



3" BRASS IDENTIFICATION DISK-TRACER WIRE STATION



IDENTIFICATION DISK EXAMPLE

CITY OF CLEARWATER PUBLIC WORKS - ENGINEERING 2022 DESIGN STANDARDS

400 SERIES: POTABLE WATER DETAILS

POTABLE WATER VALVE BOX CONCRETE PAD PLAN VIEW

INDEX NO. 402 PAGE NO. 2 OF 2 LATEST REVISION 3/2022

Table with columns for PVC PIPE, FEET and PIPE SIZE (4", 6", 8", 10", 12", 16", 20", 24"). Rows include H-B, VU-B, and VD-B for various pipe diameters.

MINIMUM DESIGN CRITERIA Bedding Type: 3 Design Pressure: 150 PSI Safety Factor: 1.5 Depth of Cover: 3.0 FT Soil Designation: SM (Sand-Silt) MINIMUM FOOTAGE OF PIPE RESTRAINT H-B: Horizontal Bend VU-B: Vertical-Up Bend VD-B: Vertical-Down Bend

Table with columns for DUCTILE IRON PIPE, FEET and PIPE SIZE (4", 6", 8", 10", 12", 16", 20", 24"). Rows include H-B, VU-B, and VD-B for various pipe diameters.

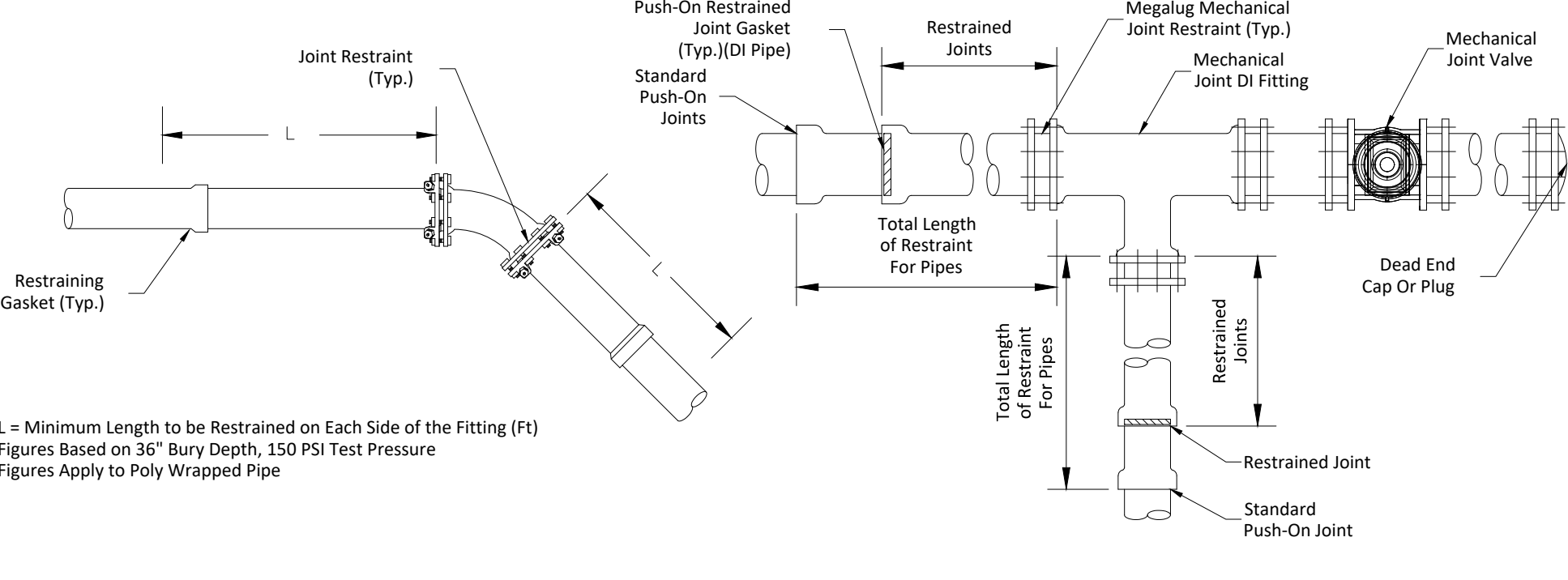
The Restrained Joint Pipeline Lengths Shown in these Tables are Calculated for a Single Fitting only. Restrained Joint Pipeline Lengths Required for Combinations of Fittings Shall be Determined on a Case by Case Basis by the Engineer of Record. Combinations of Fittings Would Include Vertical Offsets, Combined Vertical Offsets, Horizontal Offsets and Combined Horizontal Offsets as Defined in the DIPRA Design Guideline, "Thrust Restraints Design for Ductile Iron Pipe"

CITY OF CLEARWATER PUBLIC WORKS - ENGINEERING 2022 DESIGN STANDARDS

400 SERIES: POTABLE WATER DETAILS

RESTRAINED JOINT DETAIL PVC AND DUCTILE IRON MAINS

INDEX NO. 403 PAGE NO. 1 OF 2 LATEST REVISION 3/2022



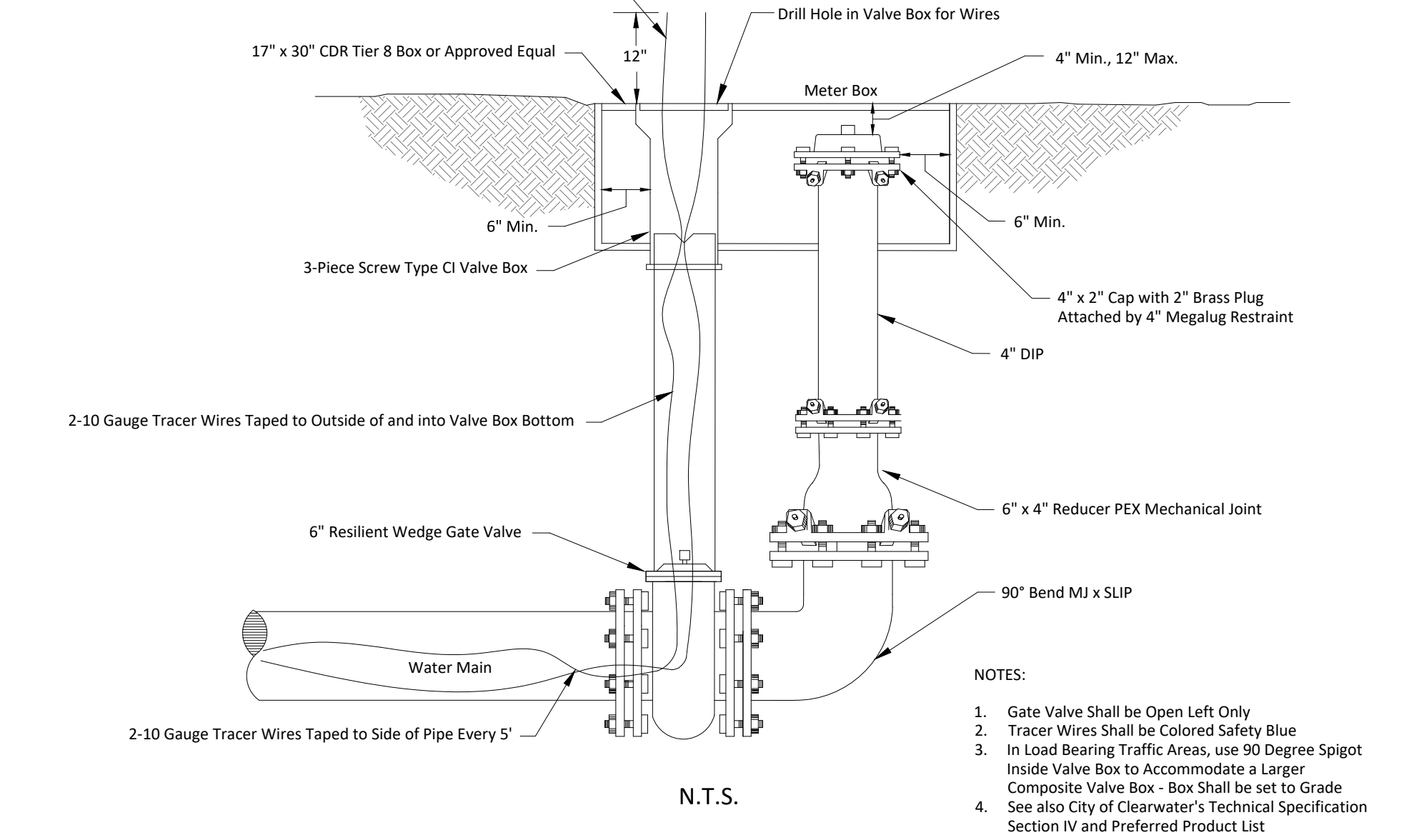
- NOTES: 1. Water Mains Larger than 12" will be Ductile Iron Pipe Only. 2. For Lengths of Pipe and Number of Joints to be Restrained - see Table on Index No. 403, Sheet 1 of 2. 3. Only Ductile Iron Pipe Fittings Shall be used at Joints to be Restrained Unless Otherwise Specified by the Engineer of Record. 4. Restrained Joint Lengths Shown were Calculated using the On-Line DIPRA Thrust Restraint Calculator Program Based on the DIPRA "Thrust Restraint for Ductile Iron Pipe" Design Guideline. 5. All Restraints Shall meet the Specifications Defined in the City of Clearwater Technical Specifications. 6. See also City of Clearwater Technical Specifications Section IV and Preferred Product List.

CITY OF CLEARWATER PUBLIC WORKS - ENGINEERING 2022 DESIGN STANDARDS

400 SERIES: POTABLE WATER DETAILS

RESTRAINED JOINT DETAIL PVC AND DUCTILE IRON MAINS

INDEX NO. 403 PAGE NO. 2 OF 2 LATEST REVISION 3/2022



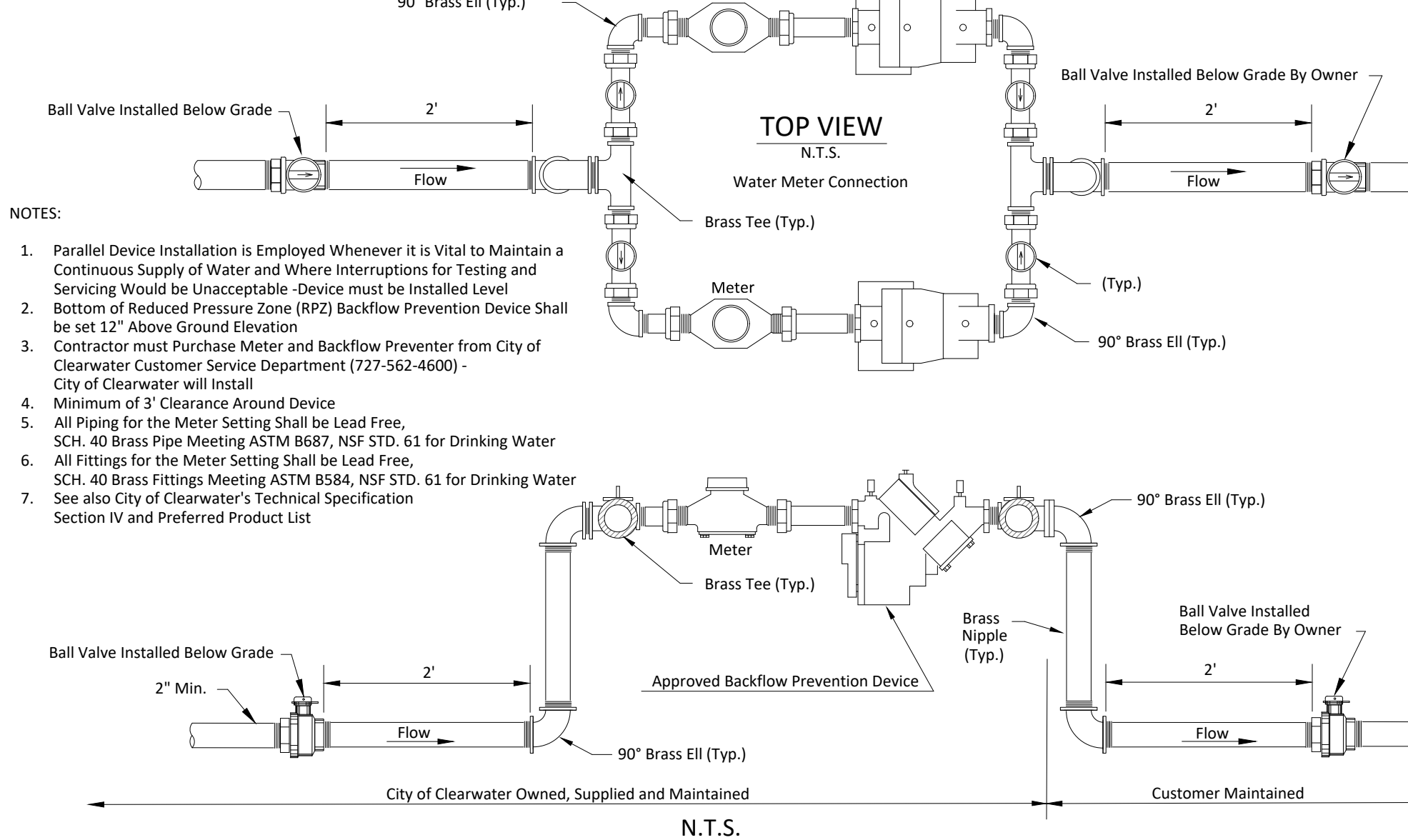
BLOWOFF DETAIL

CITY OF CLEARWATER PUBLIC WORKS - ENGINEERING 2022 DESIGN STANDARDS

400 SERIES: POTABLE WATER DETAILS

BLOWOFF DETAIL

INDEX NO. 404 PAGE NO. 1 OF 1 LATEST REVISION 3/2022



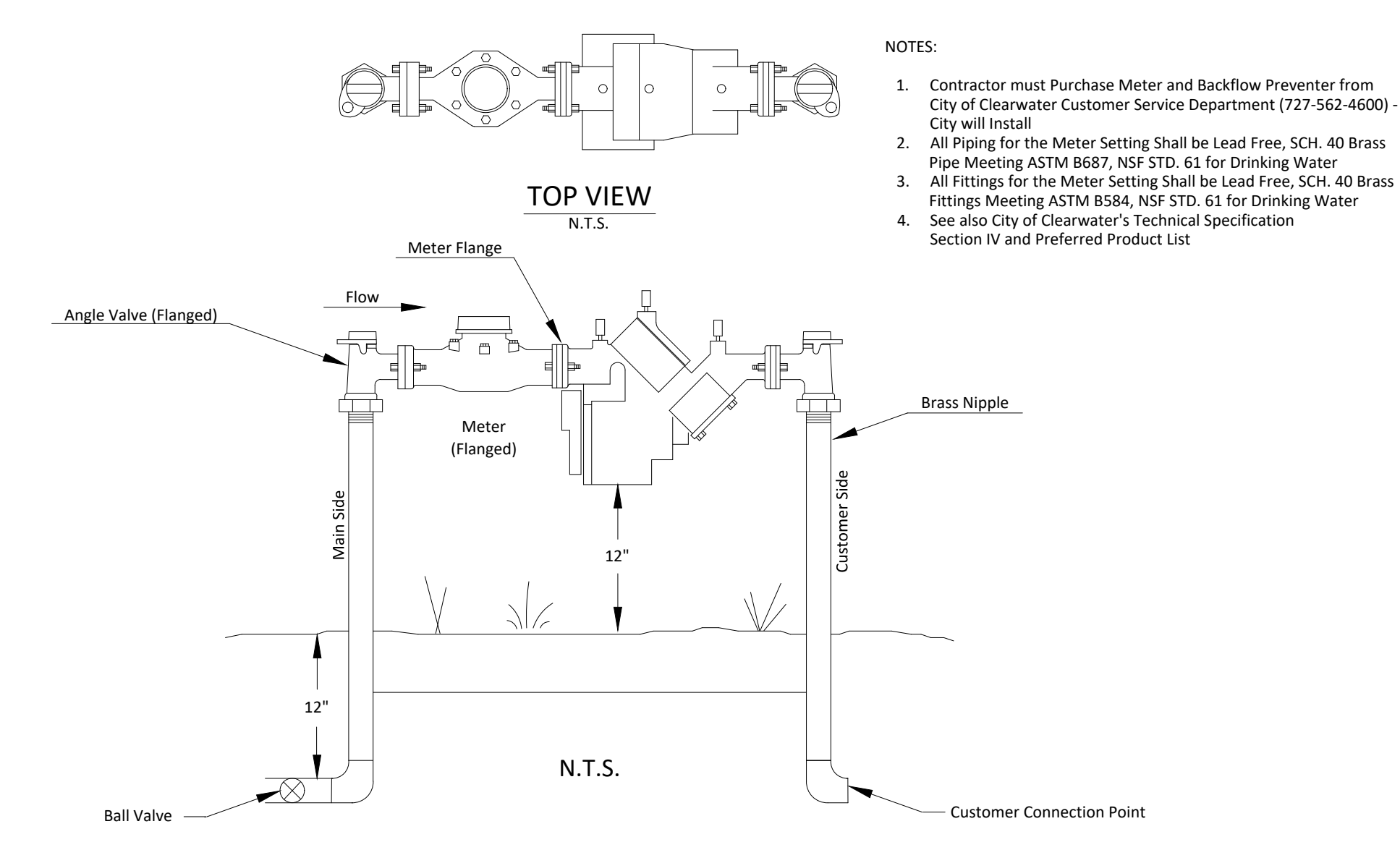
TYPICAL DUAL PARALLEL METER SET 1" to 2" MODELS

CITY OF CLEARWATER PUBLIC WORKS - ENGINEERING 2022 DESIGN STANDARDS

400 SERIES: POTABLE WATER DETAILS

TYPICAL DUAL PARALLEL METER SET 1" to 2" MODELS

INDEX NO. 405 PAGE NO. 1 OF 2 LATEST REVISION 3/2022



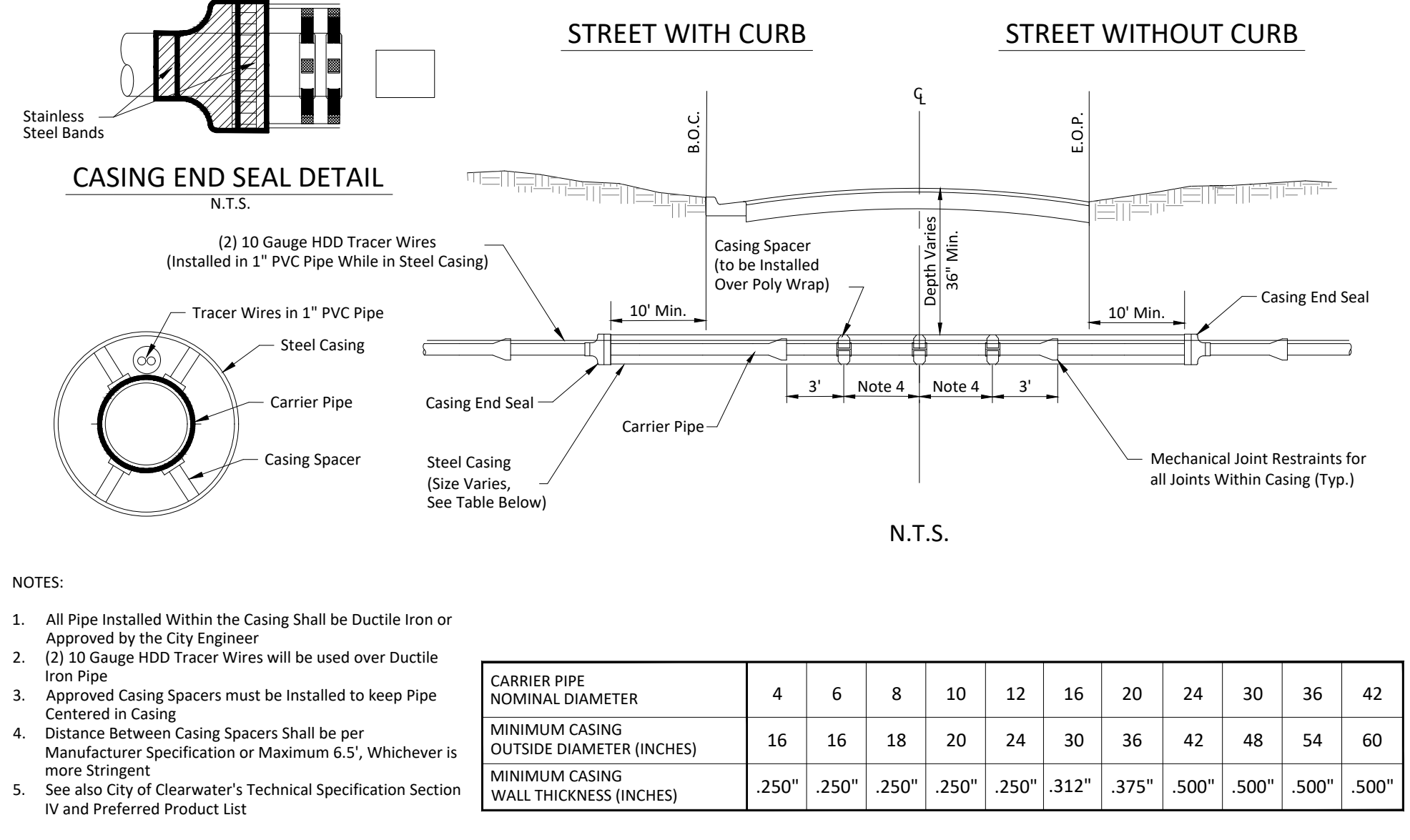
TYPICAL METER SETS W/BACKFLOW PREVENTERS 1-1/2" & 2" MODELS

CITY OF CLEARWATER PUBLIC WORKS - ENGINEERING 2022 DESIGN STANDARDS

400 SERIES: POTABLE WATER DETAILS

TYPICAL METER SETS W/BACKFLOW PREVENTERS 1-1/2" & 2" MODELS

INDEX NO. 405 PAGE NO. 2 OF 2 LATEST REVISION 3/2022



JACK AND BORE - UNDER ROADWAY

CITY OF CLEARWATER PUBLIC WORKS - ENGINEERING 2022 DESIGN STANDARDS

400 SERIES: POTABLE WATER DETAILS

JACK AND BORE - UNDER ROADWAY

INDEX NO. 407 PAGE NO. 1 OF 2 LATEST REVISION 3/2022

Table with columns for CARRIER PIPE NOMINAL DIAMETER (4, 6, 8, 10, 12, 16, 20, 24, 30, 36, 42) and rows for MINIMUM CASING OUTSIDE DIAMETER (INCHES), MINIMUM CASING WALL THICKNESS (INCHES), and MINIMUM CASING WALL THICKNESS (INCHES).

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

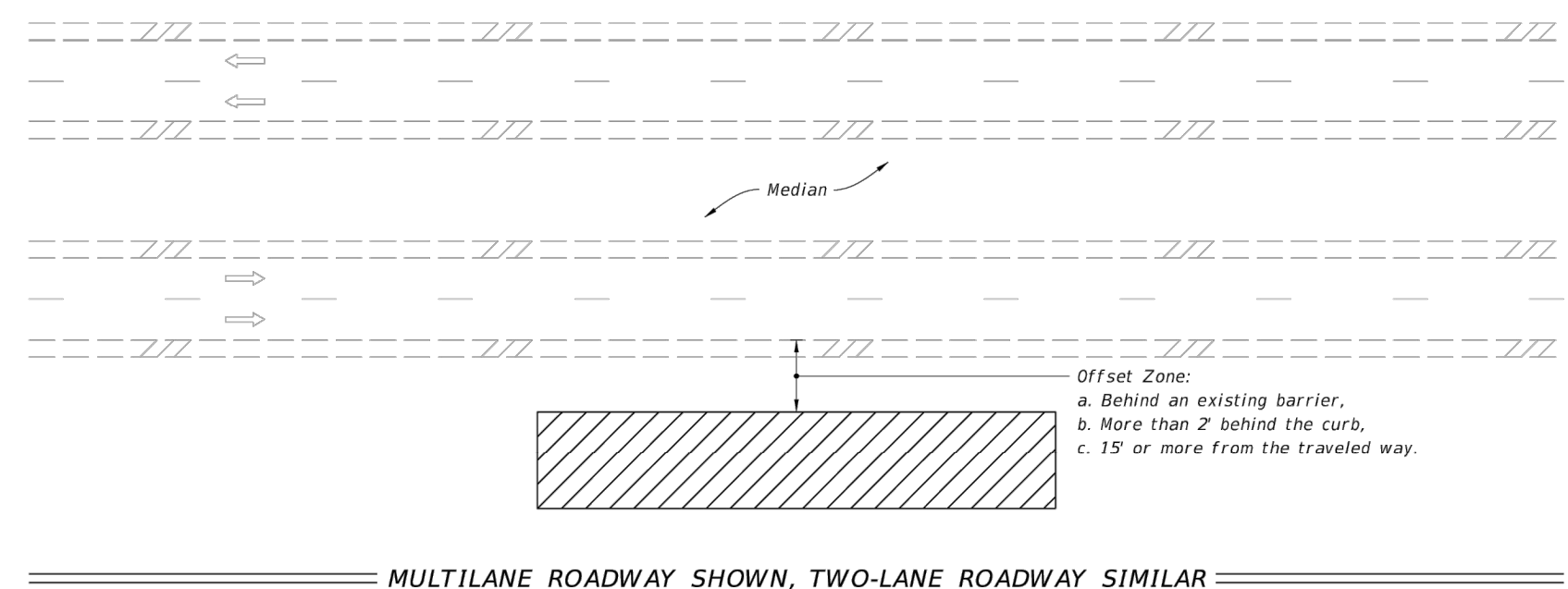
CALL 811 SUNSHINE STATE ONE CALL OF FLORIDA www.call811sunshine.com (800) 432-4770 MIN. 48 HOURS BEFORE YOU EXCAVATE

CITY OF CLEARWATER POTABLE WATER PIPING IMPROVEMENTS - PHASE 2&4&5 CITY OF CLEARWATER STANDARD DETAILS

CHA CONSULTING, INC. 3507 EAST FRONTAGE ROAD SUITE 100 TAMPA, FL 33607 TEL: (813) 549-8919 CERTIFICATE OF AUTHORIZATION #28386

Parent Sheet: Set: 072875-CirWr Task: Rwy/Pipe/Valves cha engineering 072875 clearwater phase 2 & 4 & 5 cad files\Civil\DetailSheets

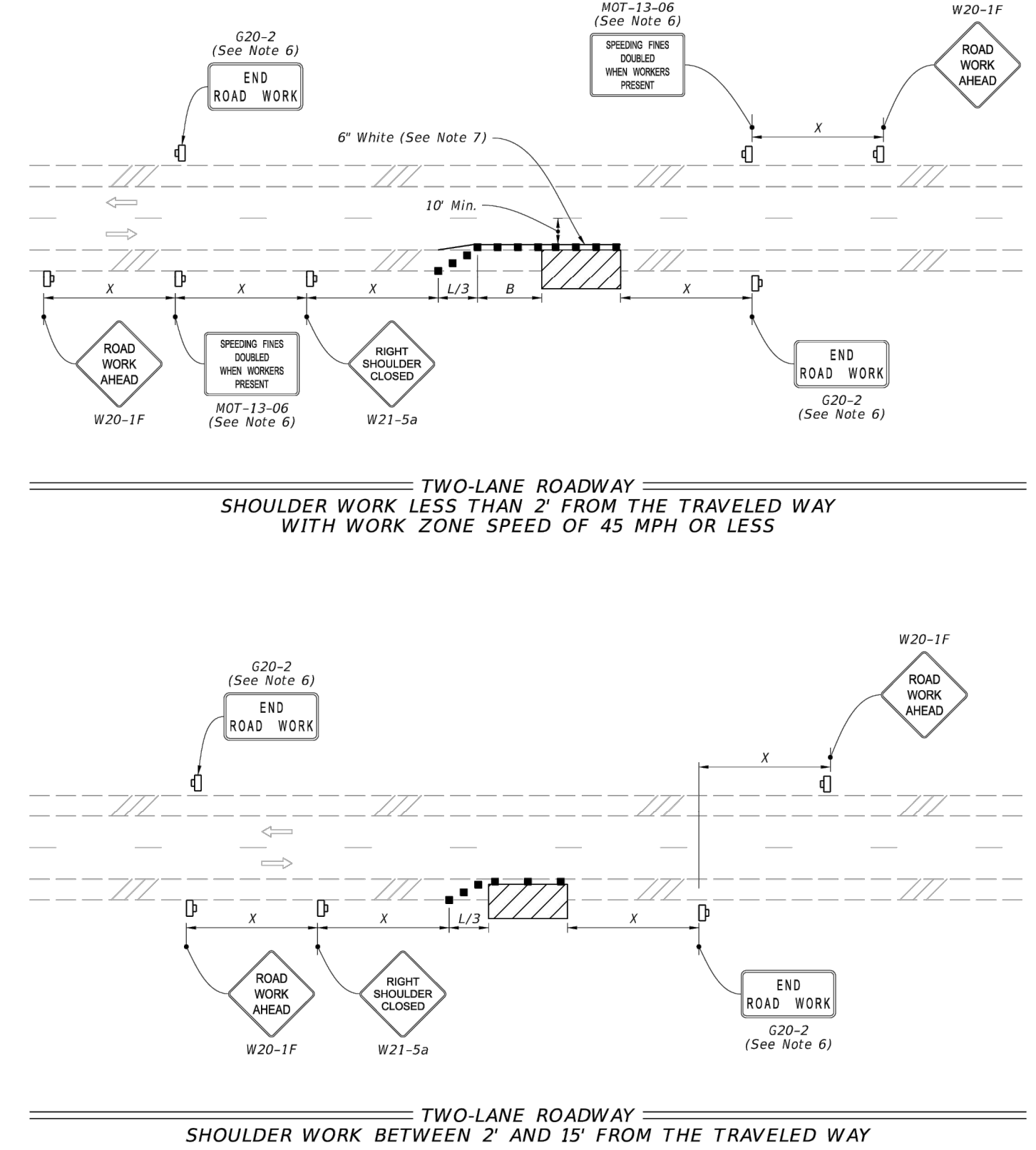
NOTE
FDOT STANDARD TTC/MOT DETAILS ARE PROVIDED AS A REFERENCE TO THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING MOT PLANS NECESSARY TO COMPLETE THE WORK EFFORT(S) IN COMPLIANCE WITH OWNER'S STANDARDS FOR EACH PROJECT WORK AREA.



- NOTES:
1. This Index applies to Two-Lane, Two-Way and Multilane Roadways, including Medians of divided roadways, with work beyond the shoulder.
2. Use Index 102-602 when the work operation (excluding establishing and terminating the work area) requires that two or more work vehicles cross the Offset Zone in any one hour period.
3. Use Index 102-660 when Work Area encroaches a Sidewalk.
SYMBOLS:
Work Area
Lane Identification and Direction of Traffic

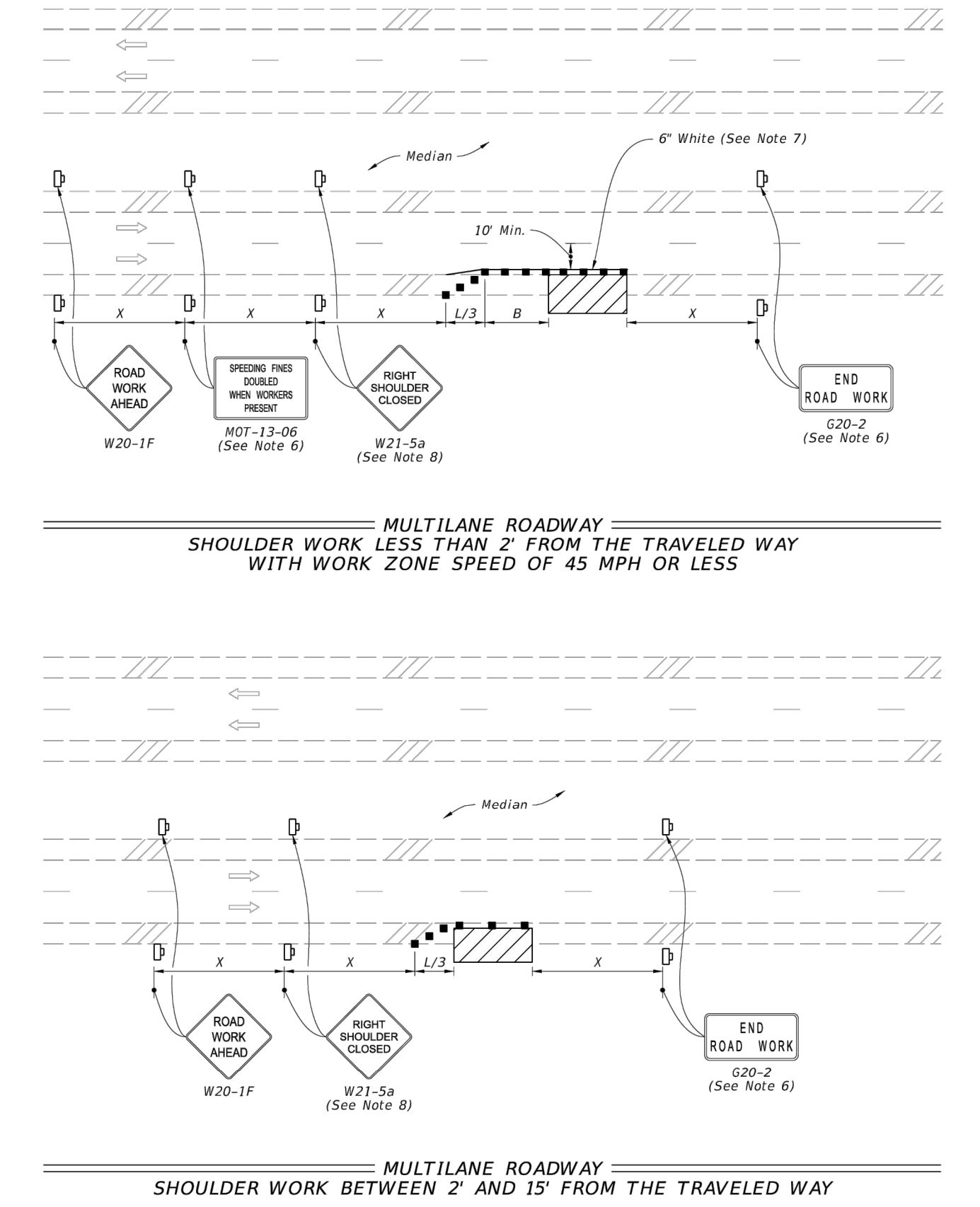
Table with columns: LAST REVISION, DESCRIPTION, FDOT, FY 2022-23 STANDARD PLANS, TWO-LANE AND MULTILANE ROADWAY, WORK BEYOND THE SHOULDER, INDEX 102-601, SHEET 1 of 1

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



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

Table with columns: LAST REVISION, DESCRIPTION, FDOT, FY 2022-23 STANDARD PLANS, TWO-LANE AND MULTILANE, WORK ON SHOULDER, INDEX 102-602, SHEET 1 of 2



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

Table with columns: LAST REVISION, DESCRIPTION, FDOT, FY 2022-23 STANDARD PLANS, TWO-LANE AND MULTILANE, WORK ON SHOULDER, INDEX 102-602, SHEET 2 of 2

Parent Sheet Set: 072875-CirWtr Task: R24/FPI/24/48/55/PAUL HELLER Rev on: 6/14/2023 6:03 PM Individual File Path: C:\Dropbox\Work\FL\Jobs\cha_engineering\072875_clearwater\phase 2 & 4 & 5\cad files\CD04

RECORD DRAWINGS table with columns: SURVEYED BY, DRAWN BY, PROJECT ENGINEER, DATE, APPROVED BY, DATE, REVISION, BY, DATE

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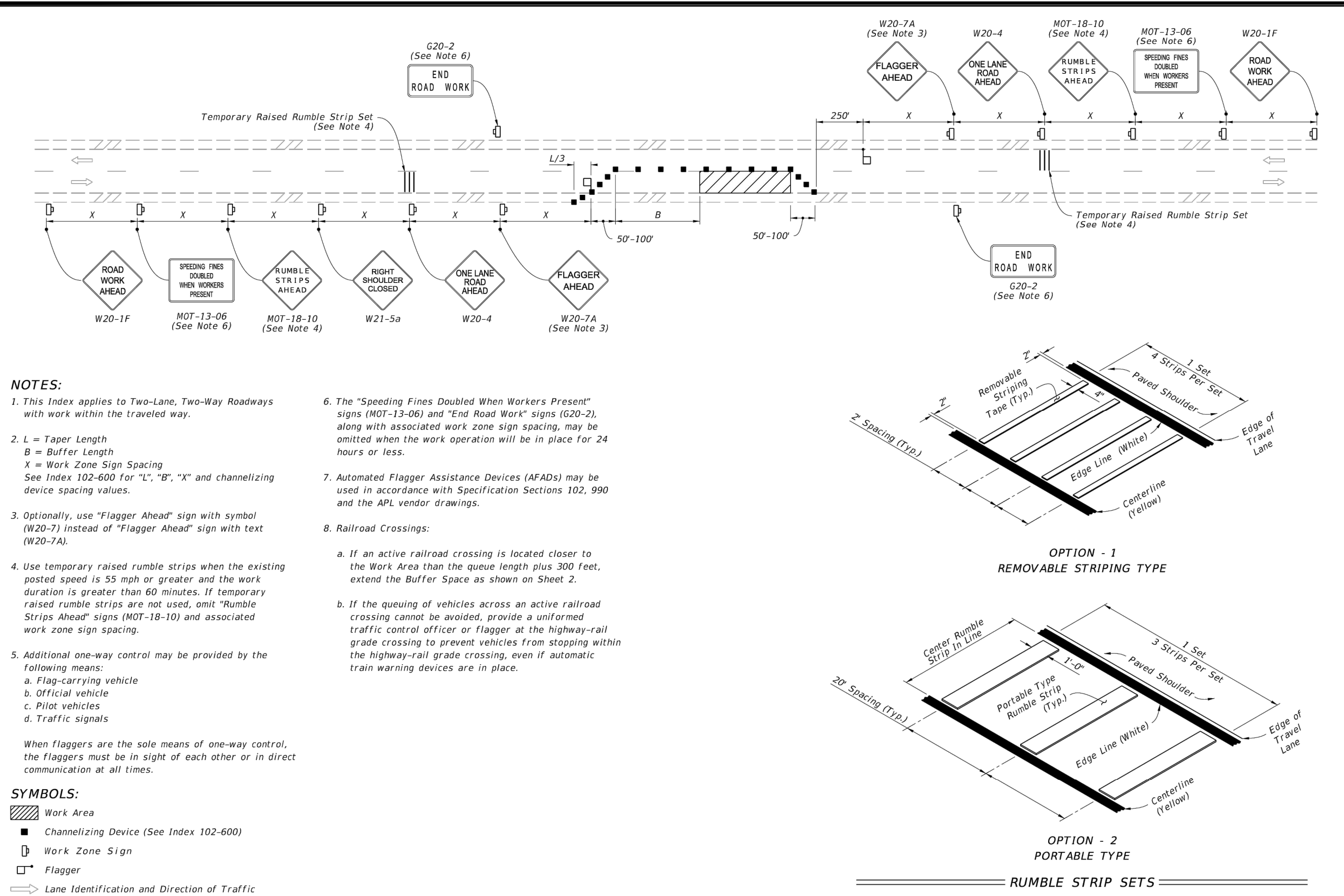
CITY OF CLEARWATER POTABLE WATER PIPING IMPROVEMENTS - PHASE 2&4&5 FDOT FY 2022-23 STANDARD PLANS DETAILS

Table with columns: DWG NAME, FIELD BOOK, SURVEYED BY, SCALE, CONTRACT NO., DATE DRAWN, DRAWN BY, HORIZ. AS NOTED, JOB NO., DESIGNED BY, CHECKED BY, SHEET NO., SHEET 61 OF 64



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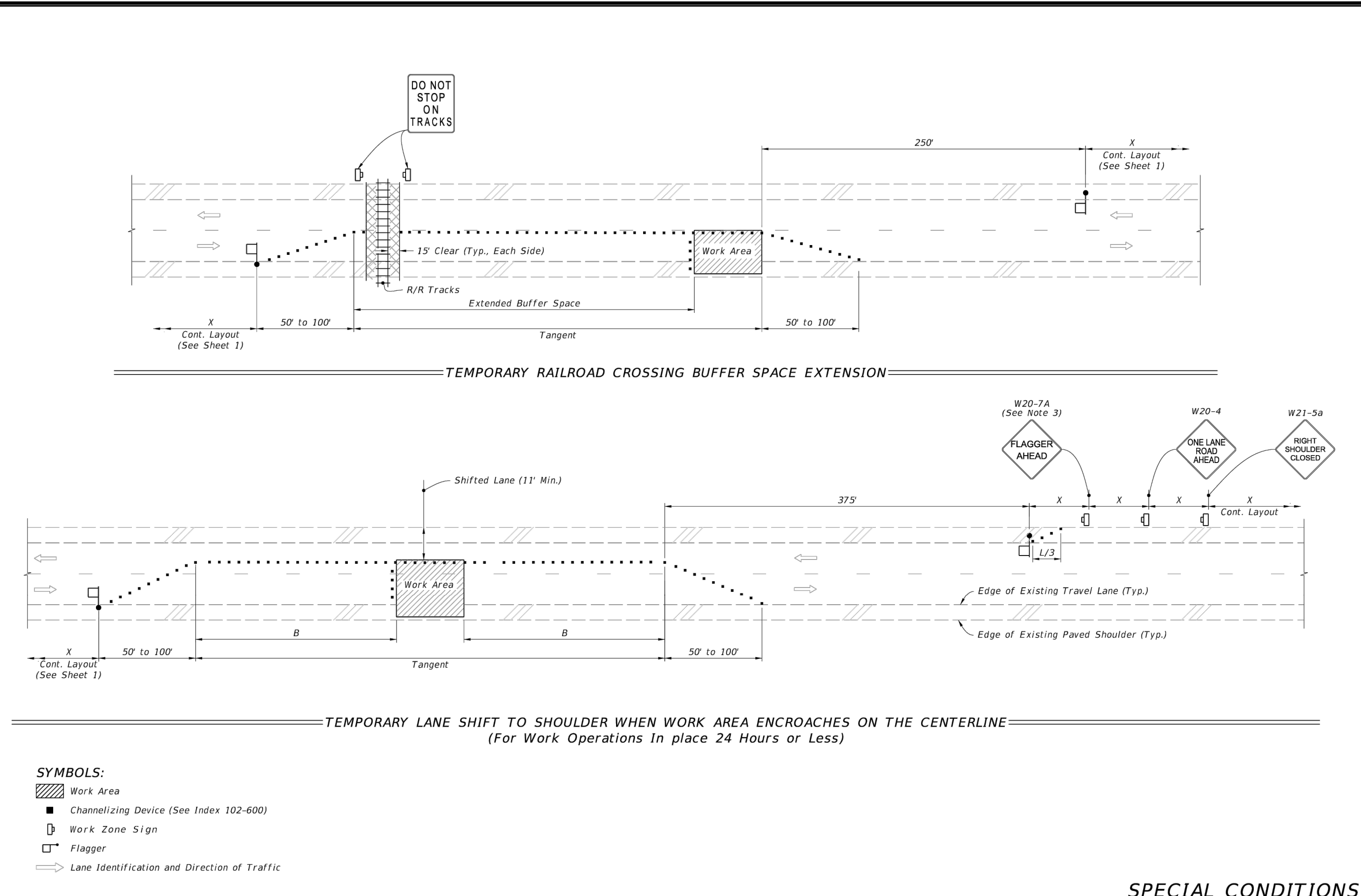
NOTE
 FDOT STANDARD TTC/MOT DETAILS ARE PROVIDED AS A REFERENCE TO THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING MOT PLANS NECESSARY TO COMPLETE THE WORK EFFORT(S) IN COMPLIANCE WITH OWNER'S STANDARDS FOR EACH PROJECT WORK AREA.



- NOTES:**
- This Index applies to Two-Lane, Two-Way Roadways with work within the traveled way.
 - L = Taper Length
B = Buffer Length
X = Work Zone Sign Spacing
See Index 102-600 for "L", "B", "X" and channelizing device spacing values.
 - Optionally, use "Flagger Ahead" sign with symbol (W20-7) instead of "Flagger Ahead" sign with text (W20-7A).
 - Use temporary raised rumble strips when the existing posted speed is 55 mph or greater and the work duration is greater than 60 minutes. If temporary raised rumble strips are not used, omit "Rumble Strips Ahead" signs (MOT-18-10) and associated work zone sign spacing.
 - Additional one-way control may be provided by the following means:
a. Flag-carrying vehicle
b. Official vehicle
c. Pilot vehicles
d. Traffic signals
 - When flaggers are the sole means of one-way control, the flaggers must be in sight of each other or in direct communication at all times.
 - Automated Flagger Assistance Devices (AFADs) may be used in accordance with Specification Sections 102, 990 and the APL vendor drawings.
 - Railroad Crossings:
a. If an active railroad crossing is located closer to the Work Area than the queue length plus 300 feet, extend the Buffer Space as shown on Sheet 2.
b. If the queuing of vehicles across an active railroad crossing cannot be avoided, provide a uniformed traffic control officer or flagger at the highway-rail grade crossing to prevent vehicles from stopping within the highway-rail grade crossing, even if automatic train warning devices are in place.

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

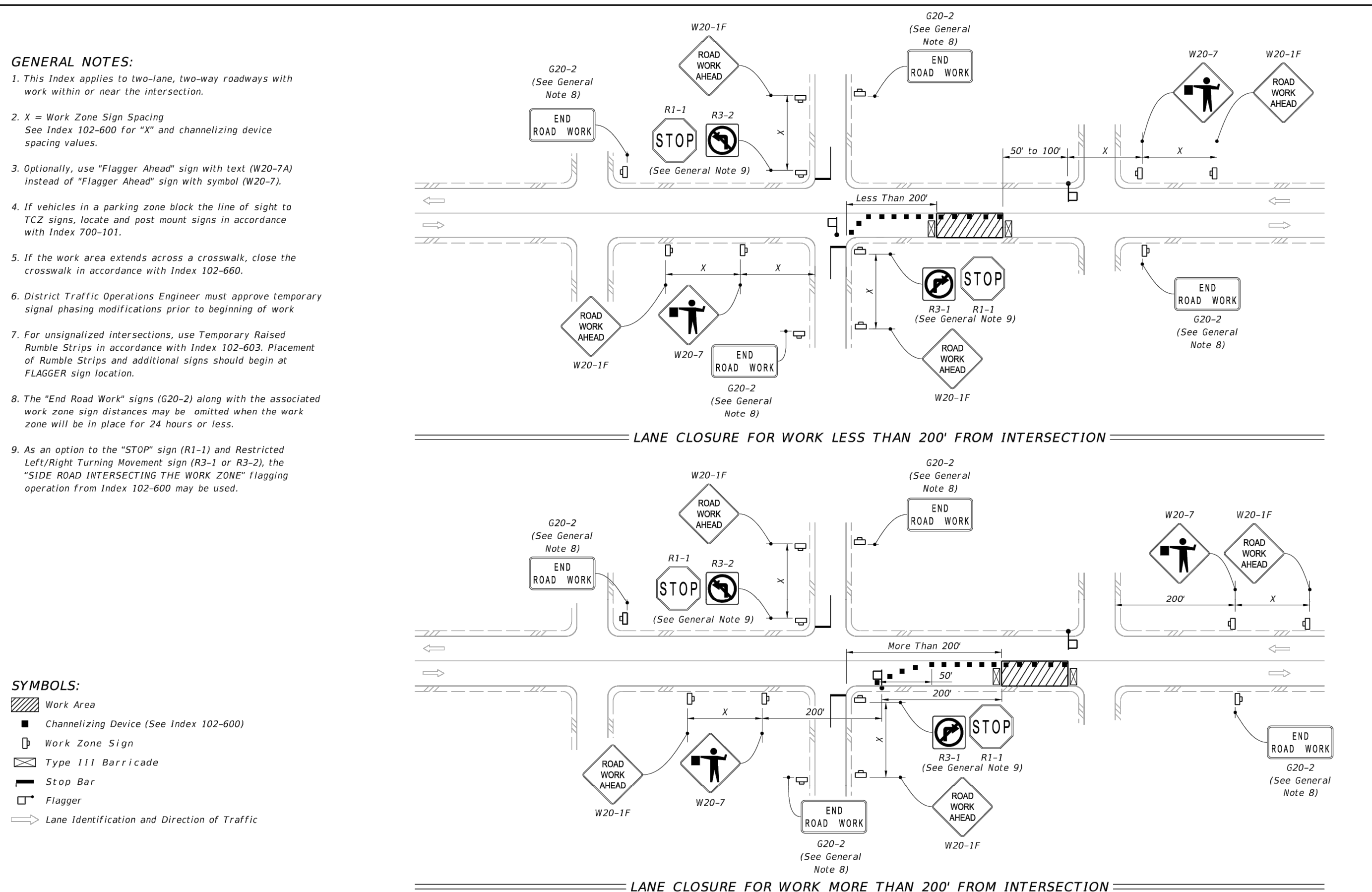
LAST REVISION	DESCRIPTION:	FDOT	FY 2022-23 STANDARD PLANS	TWO-LANE, TWO-WAY WORK WITHIN THE TRAVEL WAY	INDEX	SHEET
11/01/21					102-603	1 of 2



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

LAST REVISION	DESCRIPTION:	FDOT	FY 2022-23 STANDARD PLANS	TWO-LANE, TWO-WAY WORK WITHIN THE TRAVEL WAY	INDEX	SHEET
11/01/21					102-603	2 of 2

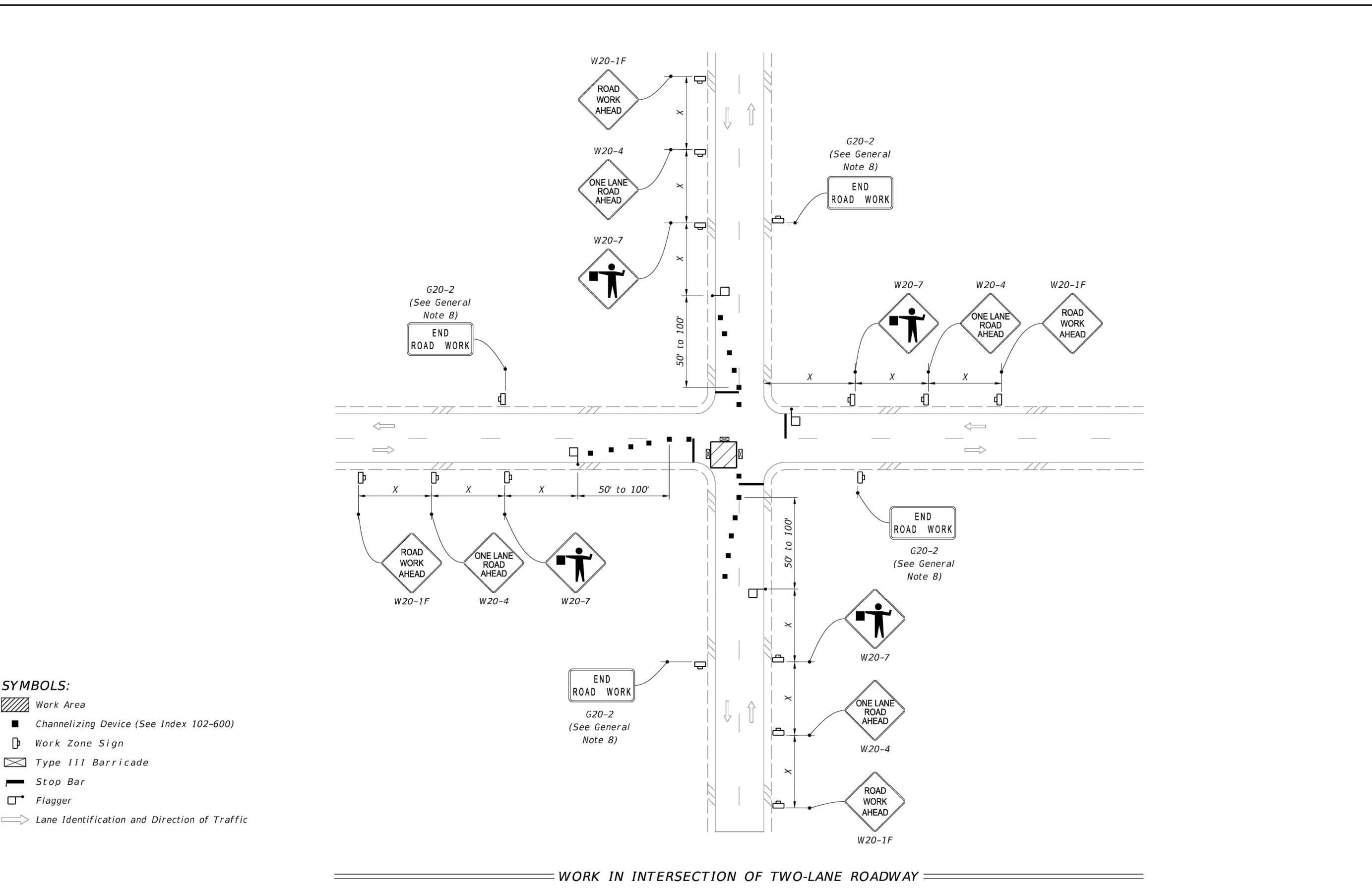
SPECIAL CONDITIONS



- GENERAL NOTES:**
- This Index applies to two-lane, two-way roadways with work within or near the intersection.
 - X = Work Zone Sign Spacing
See Index 102-600 for "X" and channelizing device spacing values.
 - Optionally, use "Flagger Ahead" sign with text (W20-7A) instead of "Flagger Ahead" sign with symbol (W20-7).
 - If vehicles in a parking zone block the line of sight to TCZ signs, locate and post mount signs in accordance with Index 700-101.
 - If the work area extends across a crosswalk, close the crosswalk in accordance with Index 102-660.
 - District Traffic Operations Engineer must approve temporary signal phasing modifications prior to beginning of work.
 - For unsignalized intersections, use Temporary Raised Rumble Strips in accordance with Index 102-603. Placement of Rumble Strips and additional signs should begin at FLAGGER sign location.
 - The "End Road Work" signs (G20-2) along with the associated work zone sign distances may be omitted when the work zone will be in place for 24 hours or less.
 - As an option to the "STOP" sign (R1-1) and Restricted Left/Right Turning Movement sign (R3-1 or R3-2), the "SIDE ROAD INTERSECTING THE WORK ZONE" flagging operation from Index 102-600 may be used.

- SYMBOLS:**
- Work Area
 - Channelizing Device (See Index 102-600)
 - Work Zone Sign
 - Type III Barricade
 - Stop Bar
 - Flagger
 - Lane Identification and Direction of Traffic

LAST REVISION	DESCRIPTION:	FDOT	FY 2022-23 STANDARD PLANS	TWO-LANE, TWO-WAY, INTERSECTION WORK	INDEX	SHEET
11/01/21					102-604	1 of 2



- SYMBOLS:**
- Work Area
 - Channelizing Device (See Index 102-600)
 - G20-2 (See General Note 8)
 - Work Zone Sign
 - Type III Barricade
 - Stop Bar
 - Flagger
 - Lane Identification and Direction of Traffic

LAST REVISION	DESCRIPTION:	FDOT	FY 2022-23 STANDARD PLANS	TWO-LANE, TWO-WAY, INTERSECTION WORK	INDEX	SHEET
11/01/21					102-604	2 of 2

Parent Sheet Set: 072875-CirWtr Task: R24/FPI/PA/4855PAUL HELLER Rev on: 6/14/2023 6:03 PM Individual File Path: C:\Dropbox\Work\VL\jobs\cha_engineering\072875_clearwater\phase 2 & 4 & 5\cad files\CD05

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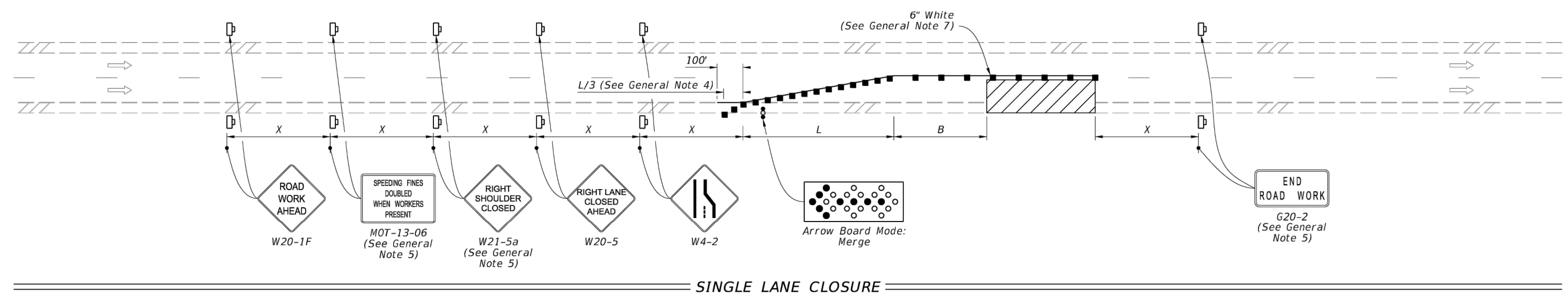
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 FDOT FY 2022-23 STANDARD PLANS DETAILS

DWG NAME:	CD05	FIELD BOOK:	N/A	SURVEYED BY:	ECHO UES	SCALE:	VERT. AS NOTED
CONTRACT NO.:	18-0040-UT	DATE DRAWN:	06/2023	DRAWN BY:		HORIZ. AS NOTED	
JOB NO.:	072875	DESIGNED BY:		CHECKED BY:		SHEET NO.:	62 OF 64

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 TEL: (813) 549-8919
 CERTIFICATE OF AUTHORIZATION #28386

NOTE
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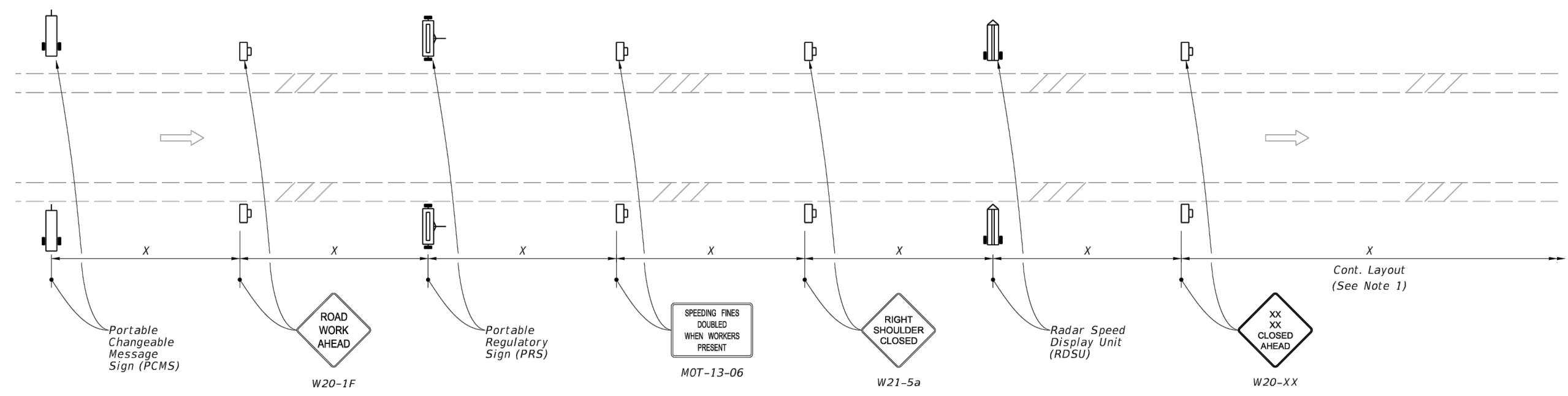


SINGLE LANE CLOSURE

SYMBOLS:
 [Hatched Box] Work Area
 [Square] Channelizing Device (See Index 102-600)
 [Diamond] Work Zone Sign
 [Arrow Board] Arrow Board
 [Arrow] Lane Identification and Direction of Traffic

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

LAST REVISION 11/01/21	DESCRIPTION:	FDOT FY 2022-23 STANDARD PLANS	MULTILANE ROADWAY, LANE CLOSURES	INDEX 102-613	SHEET 1 of 5
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MOTORIST AWARENESS SYSTEM

SYMBOLS:
 [Diamond] Work Zone Sign
 [Variable Message Sign] (1) PCMS= Portable Changeable (Variable) Message Sign
 [Regulatory Sign] (2) PRS= Portable Regulatory Sign-Speed Limit When Flashing
 [RDSU] (2) RDSU= Radar Speed Display Unit
 [Arrow] Lane Identification and Direction of Traffic

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

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

LAST REVISION 11/01/21	DESCRIPTION:	FDOT FY 2022-23 STANDARD PLANS	MULTILANE ROADWAY, LANE CLOSURES	INDEX 102-613	SHEET 5 of 5
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Parent Sheet Set: 072875-CirWtr Task: R2a/7/F1a/2/4/5/PAUL HELLER Rev on: 6/14/2023 6:03 PM Individual File Path: c:\Dropbox\Work\FL\jobs\cha_engineering\072875_clearwater_phase 2 & 4 & 5\cod_files_CD06

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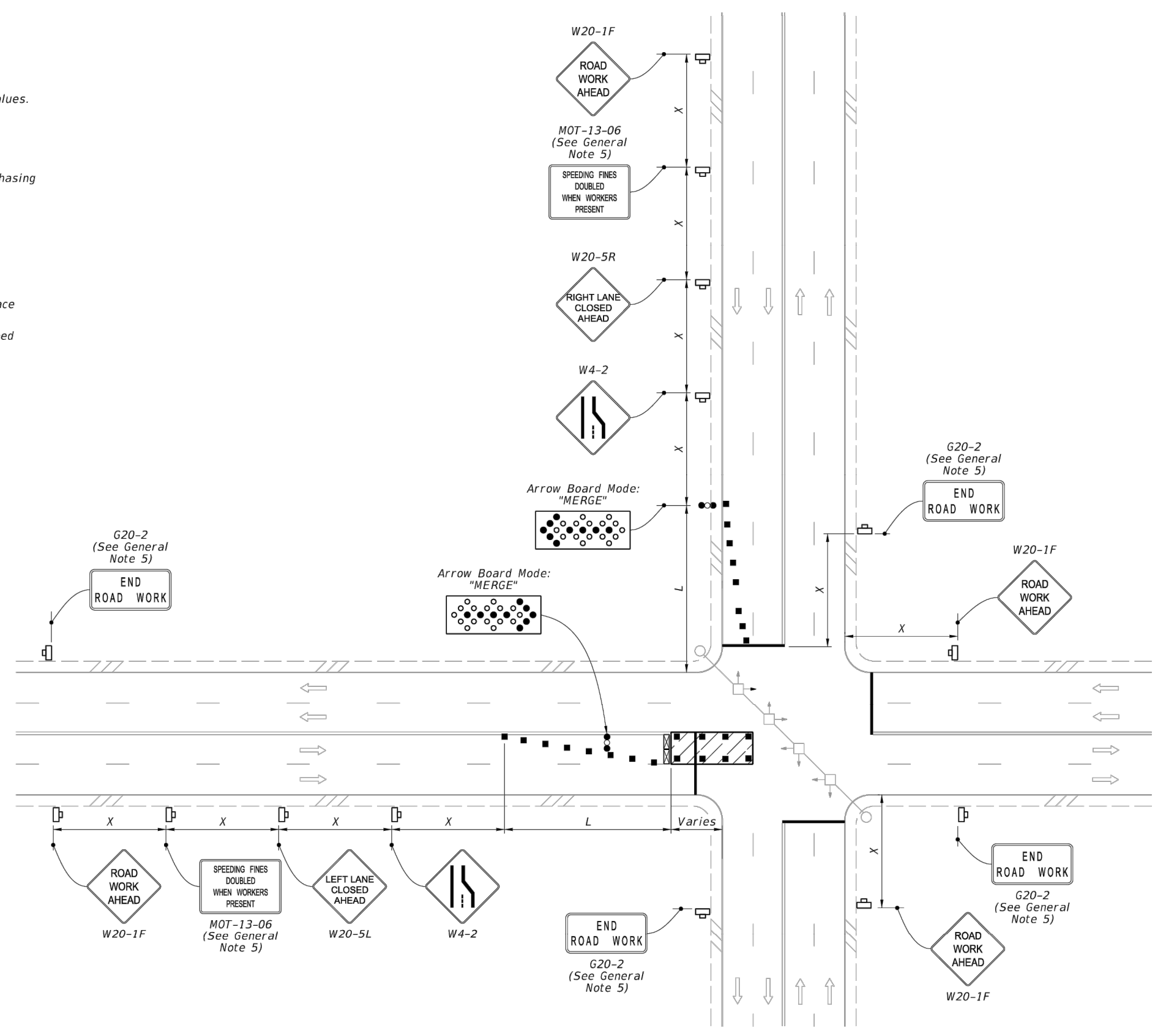


GENERAL NOTES:

- L = Taper Length
B = Buffer Length
X = Work Zone Sign Spacing
See Index 102-600 for "L", "B", "X", and channelizing device spacing values.
- If vehicles in a parking zone block the line of sight to TCZ signs, locate and post mount signs in accordance with Index 700-101.
- District Traffic Operations Engineer must approve temporary signal phasing modifications prior to beginning of work.
- Use temporary "STOP" sign (R1-1) where the existing stop bar is more than 30' from the taper, remove or cover existing sign.
- The "Speeding Fines Doubled When Workers Present" sign (MOT-13-06) and "End Road Work" Sign (G20-2), along with associated Work Zone Sign Distances, may be omitted when the work operation will be in place for 24 hours or less. Additionally, arrow boards may be omitted when the work operation will be in place for 60 minutes or less and the speed limit is 45 mph or less.
- If the work area extends across a crosswalk, close the crosswalk in accordance with Index 102-660.
- Dual signs are required for divided roadways.

SYMBOLS:

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



WORK IN INTERSECTION OF MULTILANE ROADWAY

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NOTE

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NOTES:

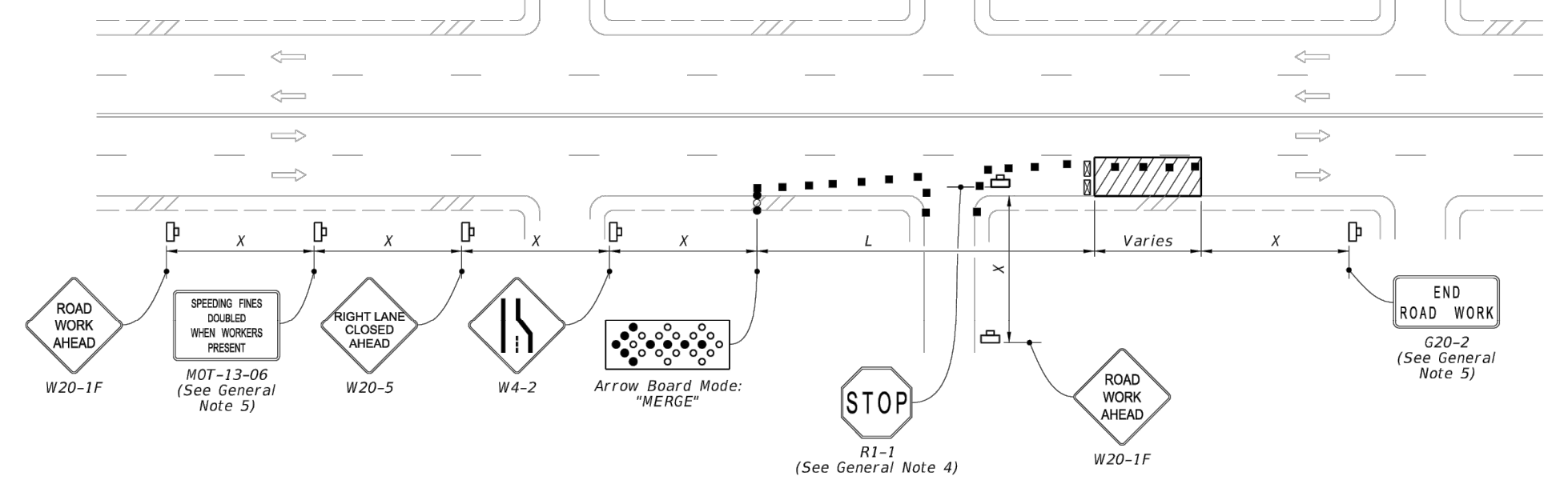
Confine work operations to the following lane or lane combinations:

- Outside travel lane
- Outside auxiliary lane
- Outside travel lane and adjoining auxiliary lane
- Inside travel lane
- Inside auxiliary lane
- Inside travel lane and adjoining auxiliary lane

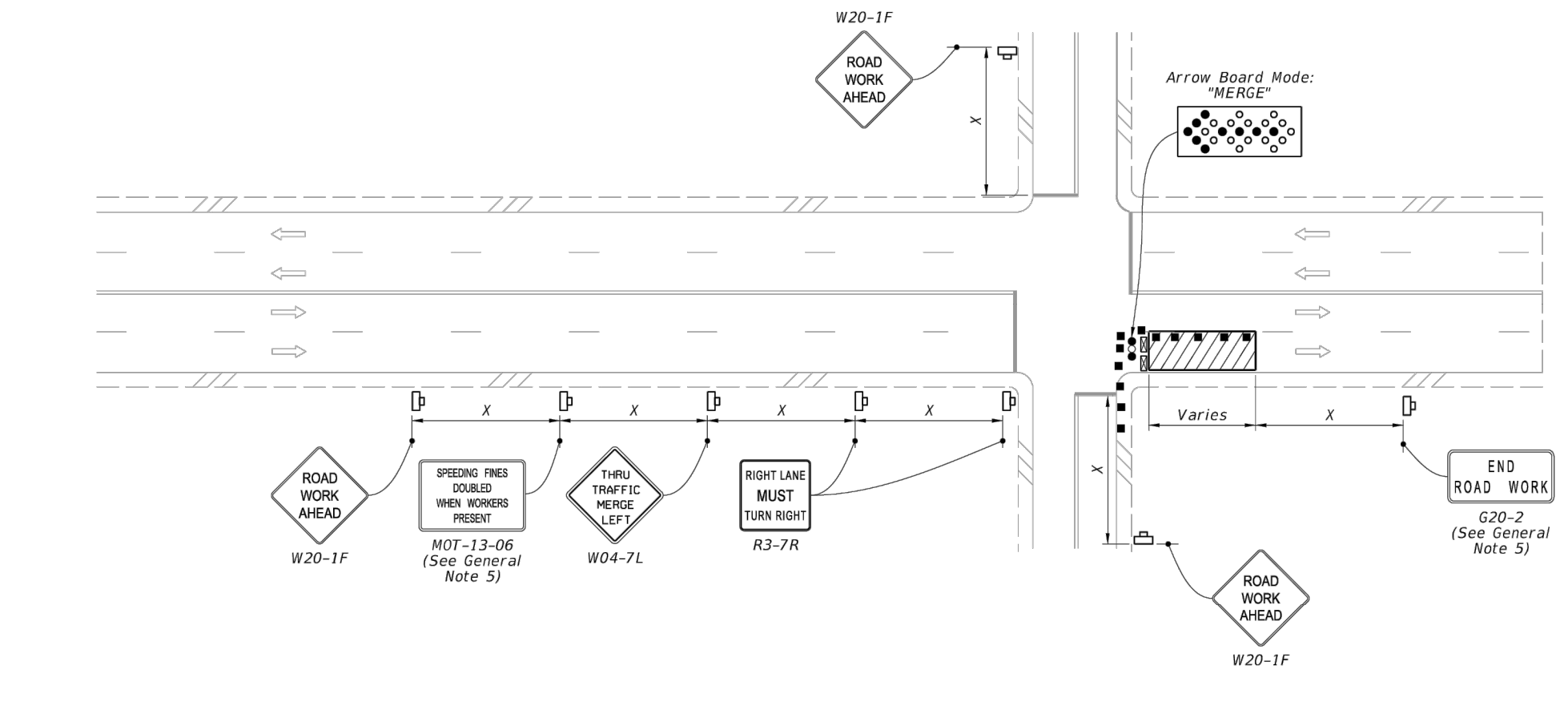
If the work area is confined to an auxiliary lane, the work area must be barricaded. Replace the RIGHT (LEFT) LANE CLOSED AHEAD signs with ROAD WORK AHEAD signs, and omit the merge symbol signs and arrow board.

SYMBOLS:

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



RIGHT LANE CLOSED ON FAR SIDE OF MINOR SIDE STREET



RIGHT LANE CLOSED ON FAR SIDE OF INTERSECTION WITH SIGNIFICANT RIGHT TURNING MOVEMENTS

LAST REVISION	DESCRIPTION:	FDOT	FY 2022-23 STANDARD PLANS	MULTILANE ROADWAY, INTERSECTION WORK	INDEX	SHEET
11/01/20					102-615	2 of 5

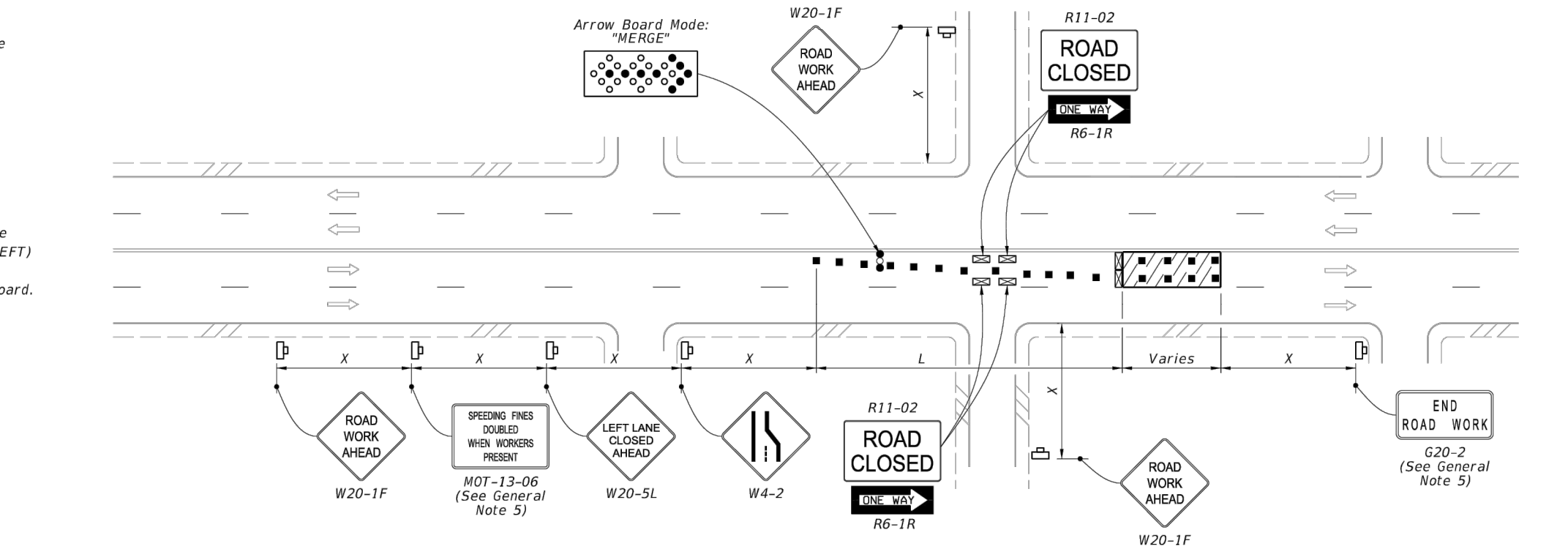
NOTES:

- Confine work operations to the following lane or lane combinations:
 - Outside travel lane
 - Outside auxiliary lane
 - Outside travel lane and adjoining auxiliary lane
 - Inside travel lane
 - Inside auxiliary lane
 - Inside travel lane and adjoining auxiliary lane

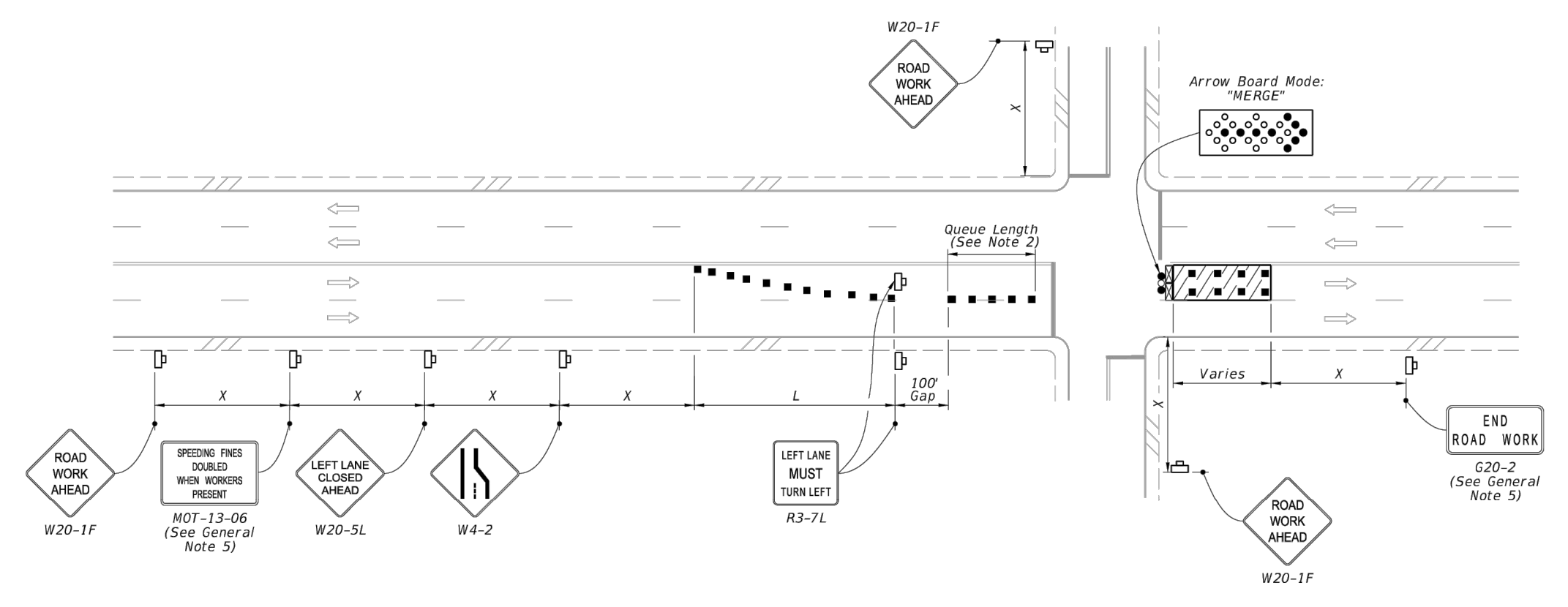
If the work area is confined to an auxiliary lane, the work area must be barricaded. Replace the RIGHT (LEFT) LANE CLOSED AHEAD signs with ROAD WORK AHEAD signs, and omit the merge symbol signs and arrow board.
- Provide sufficient Queue Length so that left-turning vehicles do not block through lanes.

SYMBOLS:

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



LEFT LANE CLOSED ON FAR SIDE OF MINOR SIDE STREET - RESTRICTED TURNING MOVEMENTS



LEFT LANE CLOSED ON FAR SIDE OF INTERSECTION TURNING MOVEMENTS ALLOWED

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