Document 00910

ADDENDUM NO. 1

Date of Addendum: March 18, 2016

PROJECT NAME: Neighborhood Street Reconstruction Project No. 467

PROJECT NO: WBS No. N-000400-0001-4

BID DATE: March 24, 2016 (There is no change to the Bid Date.)

FROM: J. Timothy Lincoln, P.E., City Engineer
City of Houston, Department of Public Works and Engineering
611 Walker, 15th floor
Houston, Texas 77002
Attn: *Ben Bansal, P.E.*, Project Manager

TO: Prospective Bidders

This Addendum forms a part of the Bidding Documents and will be incorporated into the Contract documents, as applicable. Insofar as the original Project Manual and Drawings are inconsistent, this Addendum governs.

ADDENDUM NO. 1

CHANGES TO PROJECT MANUAL

BIDDING REQUIREMENTS

1. Document 00410A – Bid Form. (Remove and Replace all pages: Increased number of days to construct from 500 to 750 calendar days.)

2. Document 00410B – Bid Form. (Remove and Replace all pages: Increased Mobilization; modified quantities for sanitary sewer services and restrained joint water lines; items for roadway excavation and embankment.)

3. Document 00495 – (Remove and Replace all pages: Revised to require a surface correction bond.)

4. Document 01110 – Sequence of Work (Remove and Replace all pages: Clarification of impacts to irrigation systems and sanitary sewer services.)

CHANGES TO DESIGN PLANS

1. Plan and Profile Sheets – (Remove and replace all pages (2, 29, 37-45, 50-51, 53-57, 59, 62-89, 92-93, 98-101, 106-111, 113, 115, 119-123, 125, 127, 132-133, 140-141, 143, & 221) with those included in this Addendum: Revisions to the sanitary sewer service leads to reflect recent changes from another City project completed or in design in addition to adjustment of underground utilities to eliminate possible conflicts.)

CLARIFICATIONS

1. Missing pay item for "Roadway Excavation." Pay item No. 19 has been added for roadway excavation into the Doc 00410.

2. Missing Traffic Control for the work on the South side of Alabama. Response: Traffic control for the South side of Alabama is identified on TCP-4 in the plans.

3. Per Summary of Work Sect 01110, 1.02, A12 and Spec 1740S, there should be pay items for sprinklers and curb drains. Pay Item 78 in the original Doc 00410 (now Pay Item 80) accounted for the curb drains. No separate Pay Item will be developed for replacement of sprinklers under revised Doc 01110. Damage to sprinkler systems by the contractor is covered under Doc 01145 Section 1.04E.

4. Pay item No. 1 "Mobilization" amount of $366,000 seems to be too low for the size of the project. We have adjusted the Mobilization amount on the Doc 0410 to reflect a higher cost project.

5. Missing Pay Items per LF for laterals "6 inch sanitary sewer services" Response: The pay items for 6" sanitary sewer services are paid for on an "each" basis. We have modified the plans to more accurately identify the locations of the sanitary sewer services and revised the quantities accordingly on the Doc 00410.

6. Some sanitary sewer services shown on the plans are in conflict with the proposed storm sewers. Clarify and specify minimum clearance with proposed storm. Response: The sanitary sewer service lead should have a minimum 12" clearance to the storm sewer. The plans have been revised to reflect the required minimum clearance and eliminate conflicts.

7. Is a time determination schedule available? Response: Yes and is included in this Addendum.

8. Is the owner or prime contractor responsible for testing? Specification 01454 Sect 1.03A&B clearly states who is responsible in part 2 and 3 of the "individual specifications sections". Who is responsible for testing and specifically the subgrade and concrete pavement testing? Response: The City is responsible for providing the initial testing of the subgrade and concrete. The testing firm

contact information will be provided by the City at the preconstruction meeting.

9. Is a surface correction bond needed for this project? Specification 00495-2 shows what's due in 10 days of receipt of Notice of Intent to Award and the box next to Document 00613 is not checked nor is it checked anywhere else. Response: A revised Document 00495 is included in this Addendum and a surface correction bond is required.

10. Are low profile CTBs required or allowed on this project? Will you be adding a low profile CTB bid item? Response: We are not including low profile CTB's as a requirement or pay item in this project.

11. Will the bids be read out loud at 10:30 24 March 2016 at 900 Bagby; Room P101, Houston, Texas? Response: Yes

12. We believe the time of 500 Calendar Days to complete this job is grossly underestimated to the amount of work required, traffic control and this highly-condensed residential area and estimate the duration not to be less than 990 calendar days. Response: The duration has been extended to 750 calendar days per the Doc 00410A.

END OF ADDENDUM NO. __1__

DATED: _____
Ravi Kaleyatodi, P.E., CPM
Senior Assistant Director
Department of Public Works and Engineering

RK:MS:BB:sdd

END OF DOCUMENT

Document 00410A

BID FORM – PART A

To: **The Honorable Mayor and City Council of the City of Houston**
City Hall Annex
900 Bagby Street
Houston, Texas 77002

Project: Neighborhood Street Reconstruction Project No. 467
Project No.: WBS No. N-000400-0001-4
Bidder: _____
(Print or type full name of business entity, such as corporation, LLC, etc)

OFFER

A. Total Bid Price: Having examined the Project location and all matters referred to in Bid Documents for the Project, we, the undersigned, offer to enter into a Contract to perform the Work for the Total Bid Price shown on the signature page of this Document

B. Security Deposit: Included with the Bid is a Security Deposit in the amount of 10 percent of the Total Bid Price subject to terms described in Document 00200 – Instructions to Bidders.

C. Period for Bid Acceptance: This offer is open to acceptance and is irrevocable for 90 days from Bid Date. That period may be extended by mutual written agreement of the City and Bidder.

D. Addenda: All Addenda have been received. Modifications to Bid Documents have been considered and all related costs are included in the Total Bid Price.

E. Bid Supplements: The following documents are attached:

[X] Security Deposit *(as defined in Document 00200 – Instructions to Bidders)*
[X] Document 00450 - Bidder's Statement of MWSBE Status
[X] Document 00452 - Contractor's Submission List - Fair Campaign Ordinance Form A
[X] Document 00453 – Bidder's Statement of Residency *(not required for AIP funded project)*
[X] Document 00454 - Affidavit of Non-interest
[X] Document 00455 - Affidavit of Ownership or Control
[ ] Document 00456 - Bidder's Certificate of Compliance with Buy American Program *(required for AIP funded project)*

[X] Document 00457 – Conflicts of Interest Questionnaire (CIQ)
[ ] Document 00458 - Bidder's Certificate Regarding Foreign Trade Restriction *(required for AIP funded project)*
[ ] Document 00459 - Contractor's Statement Regarding Previous Contracts Subject to EEO *(required for AIP funded project)*
[X] Document 00460 – (POP 1) Pay or Play Acknowledgement Form
[X] Document 00470 – Bidder's MWSBE Participation Plan *(required unless no MWSBE participation goal is provided in Document 00800* (the "Goal")*).*
[ ] Document 00471 – Pre-bid Good Faith Efforts *(required if the goal in Bidder's Participation Plan–Document 00470 is lower than the Goal).*
[ ] Document 00472 – Bidder's Goal Deviation Request *(required if the goal in Bidder's Participation Plan–Document 00470 is lower than the Goal).*
[X] Others as listed: Valid official letter from OBO with your designation as a City or Local Business (Bidder's Participation Hire Houston First)

CONTRACT TIME

A. If offer is accepted, Contractor shall achieve Date of Substantial Completion within 750 days after Date of Commencement of the Work, subject to adjustments of Contract Time as provided in the Contract.

Document 00410B

BID FORM – PART B

1.0 TOTAL BID PRICE HAS BEEN CALCULATED BY BIDDER, USING THE FOLLOWING COMPONENT PRICES AND PROCESS (PRINT OR TYPE NUMERICAL AMOUNTS):

A. STIPULATED PRICE: **$0.00 (N/A)**

(Total Bid Price; minus Base Unit Prices, Extra Unit Prices, Cash Allowances and All Alternates, if any)

****
Insert unit price items in table. Identify each unit price item by specification section number under the Item Description. Duplicate this page as needed to list required unit price items. Insert "TOTAL BASE UNIT PRICES" line from table on final page of unit price items. See Paragraph 9.0 in Document 00200 – Instructions to Bidders for guidance.
****

B. BASE UNIT PRICE TABLE:

Item No.	Spec. Ref.	Base Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price	Total in figures
B1. GENERAL ITEMS						
1	01502	Mobilization	LS	1	$450,000.00 (1)	$450,000.00 (1)
2	01506	Diversion Pumping	LS	1		
3	01554	Remove and reinstall signs on new sign poles, hardware and foundations at locations listed on the plans, existing in the field, or as directed by the engineer	EA	156		
4	01555	Traffic Control and Regulation	LS	1	$300,000.00 (2)	$300,000.00 (2)
5	01555	Flagmen	LS	1	$152,000.00 (2)	$152,000.00 (2)
6	01562	Tree and plant protection	LS	1	$180,000.00 (2)	$180,000.00 (2)
7	01562S	Sidewalk Removal (hand excavation)	SY	278		
8	01570	Inlet Protection Barrier (Gravel Bags)	LF	2,310		
9	01570	Filter Fabric Fence	LF	9,240		
10	01575	Stabilized construction exit	EA	2		
11	02260	Trench safety system for trench excavations	LF	38,510		
12	02922	Sodding	SY	11,486		
			SUBTOTAL:			
B2. STREET ITEMS:						
13	02221	Remove/Dispose Conc Sidewalk 4-inch thick/More	SY	9,441		

Bidder's Initials [ ]

14	02221	Remove/Dispose Conc Driveway 6-inch thick/More	SY	9,364		
15	02221	Remove/Dispose Asphalt Surface/with or without Base	SY	56,912		
16	02221	Removing and disposing of Concrete pavements (all thickness, w/ or w/o Asphalt, including base & subgrade, w/ or w/o curb, all depth)	SY	696		
17	02221	Remove and dispose of existing wheel chair ramps	SY	685		
18	02221	Remove and dispose of concrete directional islands	SY	256		
19	02315	Roadway excavation, including removal of waste disposal	CY	910		
20	02315	Borrow / embankment	CY	2,426		
21	02336	Lime Stabilized Subgrade 8-inch thick	SY	61,165		
22	02336	Lime for Lime stabilized Subgrade (DRY WEIGHT)	TON	1,633		
23	02546	Decomposed Granite	SF	560		
24	02741	Temporary Asphalt Concrete Pavement, including surface and base materials, grading, maintenance and removal	SY	148		
25	02741	Hot Mix Asphalt Concrete Pavement 2-inch thick	TON	141		
26	02751	Reinforced Concrete Pavement 8-inch thick	SY	51,988		
27	02752	Street pavement expansion joint with/without load transfer device	LF	11,753		
28	02752	Horizontal Dowel, 18-inch	EA	10,722		
29	02752S	Saw Cutting	LF	2,175		
30	02754	Concrete Driveways including Excavation 6-inch thick	SF	63,312		
31	02754	Concrete Driveways including Excavation 7-inch thick	SF	17,943		
32	02762	Blast cleaning pavement markers 4-inch wide lines	LF	1,533		
33	02765	Temporary Removable Pavement Markings Class I-4-inch White, Class I	LF	1,533		
34	02767	Thermoplastic Pavement Marking 8-inch wide White (SLD)	LF	140		
35	02767	Thermoplastic Pavement Marking 4-inch wide White (SLD)	LF	655		
36	02767	Thermoplastic Pavement Marking 4-inch wide White (BRK)	LF	1,533		
37	02767	Thermoplastic Pavement Marking 12-inch wide White (SLD)	LF	456		
38	02767	Thermoplastic Pavement Marking 24-inch wide White (SLD)	LF	1,755		
39	02771	6-inch Curb and Gutter (Monolithic)	LF	171		
40	02771	6-Inch Concrete Curb (Monolithic)	LF	22,272		
41	02771	Concrete Paving Header	LF	834		
42	02772	6-inch Concrete Median or Directional Island	SY	135		
43	02772	Low Rise Retaining Wall	LF	185		
44	02775	Sidewalk 4-1/2-inch thick	SF	104,052		
45	02775	Curb Ramp	SF	16,131		
46	02960	Milling Asphalt pavement upto 2-inches	SY	1,326		
			SUBTOTAL:			
B3. STORM SEWER ITEMS:						

47	02081 02082 02087	Type C manhole for 42-inch diameter and smaller sewers	EA	110		
48	02081 02082 02087	Type C manhole for 48-inch to 72-inch diameter sewers	EA	33		
49	02081 02082 02087	Type C manhole for 78-inch diameter and greater sewers	EA	3		
50	02081 02082 02087	Manhole for concrete box sewers	EA	3		
51	02221	Remove/Dispose storm pipe 6-inch dia	LF	8		
52	02221	Remove/Dispose storm pipe 10-inch dia	LF	63		
53	02221	Remove/Dispose storm pipe 12-inch dia	LF	254		
54	02221	Remove/Dispose storm pipe 15-inch dia	LF	2,584		
55	02221	Remove/Dispose storm pipe 18-inch dia	LF	5,441		
56	02221	Remove/Dispose storm pipe 24-inch dia	LF	1,490		
57	02221	Remove/Dispose storm pipe 36-inch dia	LF	349		
58	02221	Remove/Dispose storm pipe 42-inch dia	LF	277		
59	02221	Remove/Dispose storm pipe 48-inch dia	LF	616		
60	02221	Remove/Dispose storm pipe 54-inch dia	LF	316		
61	02221	Remove/Dispose storm pipe 60-inch dia	LF	269		
62	02221	Remove /Dispose Manholes all Sizes/depth	EA	42		
63	02221	Remove and Dispose of Existing Inlets	EA	117		
64	02221	Abandon and grout fill existing inlets	EA	2		
65	02222	Abandon and Fill 15-inch Diameter Storm Sewer	LF	288		
66	02222	Abandon and Fill 18-inch Diameter Storm Sewer	LF	340		
67	02222	Abandon and Fill 24-inch Diameter Storm Sewer	LF	46		
68	02222	Abandon and Fill 36-inch Diameter Storm Sewer	LF	22		
69	02631	8'x 8' Box Culvert by open cut	LF	286		
70	02631	84-inch diameter storm sewer by open cut	LF	926		
71	02631	78-inch diameter storm sewer by open cut	LF	310		
72	02631	72-inch diameter storm sewer by open cut	LF	667		
73	02631	66-inch diameter storm sewer by open cut	LF	303		
74	02631	60-inch diameter storm sewer by open cut	LF	256		
75	02631	48-inch diameter storm sewer by open cut	LF	3,605		
76	02631	42-inch diameter storm sewer by open cut	LF	483		
77	02631	36-inch diameter storm sewer by open cut	LF	6,285		
78	02631	30-inch diameter storm sewer by open cut	LF	752		
79	02631	24-inch diameter storm sewer by open cut	LF	3,743		
80	02631 02505	Remove and replace existing curb drains with 4-inch diameter high-density polyethylene pipe storm sewer, including thickened sidewalk, complete-in-place	LF	949		
81	02632 02633	Type A grate inlet	EA	1		
82	02632 02633	Type BB inlet	EA	174		
83	02632 02633	Type BB inlet frame and grate	EA	1		
84	02632 02633	Type C inlet	EA	1		

85	02632 02633	Type C-1 inlet	EA	3		
86	02632 02633	Type C-2 Inlet	EA	13		
87	02632 02633	Type C-2A inlet	EA	1		
88	02632 02633	SPL 10'x10'x10' Conflict Box	EA	1		
89	02632 02633	Type K Inlet	EA	17		
			SUBTOTAL:			
B4. WASTEWATER ITEMS:						
90	02082	4-foot diameter precast concrete manholes	EA	70		
91	02082	Extra depth, 4-foot diameter precast concrete manhole	VF	217		
92	02082	Manhole drops; 8-inch diameter, all depths	EA	22		
93	02221	Remove and Dispose 4-inch diameter sanitary sewer	LF	31		
94	02221	Remove and Dispose 6-inch diameter sanitary sewer	LF	1,383		
95	02221	Remove and Dispose 8-inch diameter sanitary sewer	LF	2,901		
96	02221	Remove and Dispose 10-inch diameter sanitary sewer	LF	3,063		
97	02221	Remove and Dispose 15-inch diameter sanitary sewer	LF	1,225		
98	02221	Remove and Dispose of Existing sanitary sewer manholes	EA	59		
99	02222	Abandon and fill 6-inch diameter sanitary sewer	LF	980		
100	02222	Abandon and fill 8-inch diameter sanitary sewer	LF	1,248		
101	02222	Abandon and fill 10-inch diameter sanitary sewer	LF	1,655		
102	02222	Abandon and fill 15-inch diameter sanitary sewer	LF	527		
103	02531 02501	8-inch diameter sanitary sewer, by open-cut	LF	7,238		
104	02531 02501	10-inch diameter sanitary sewer, by open-cut	LF	1,736		
105	02531 02501	12-inch diameter sanitary sewer, by open-cut	LF	2,799		
106	02531 02501	15-inch diameter sanitary sewer, by open-cut	LF	3,540		
107	02534	Service stubs or reconnections including construction of stack on sanitary sewer	EA	188		
108	02534	Service stubs or reconnections without stack on sanitary sewer	EA	32		
			SUBTOTAL:			
B5. WATER ITEMS:						
109	02221	Remove/Dispose 2-inch diameter Galv. St. water line	LF	214		
110	02221	Remove/Dispose 4-inch diameter Galv. St. water line	LF	66		
111	02221	Remove/Dispose 4-inch diameter CI water line	LF	38		
112	02221	Remove/Dispose 6-inch diameter CI water line	LF	24		

113	02221	Remove/Dispose 6-inch diameter AC water line	LF	118		
114	02221	Remove/Dispose 8-inch diameter CI water line	LF	369		
115	02221	Remove/Dispose 8-inch diameter AC water line	LF	87		
116	02221	Remove/Dispose 8-inch diameter PVC water line	LF	160		
117	02221	Remove/Dispose 12-inch diameter CI water line	LF	1221		
118	02511	4-inch diameter water line by trenchless construction	LF	85		
119	02511	6-inch diameter water line by trenchless construction	LF	85		
120	02511	8-inch diameter water line by trenchless construction	LF	14717		
121	02511	8-inch diameter water line by trenchless construction with restrained joints	LF	417		
122	02511	8-inch diameter DIP water line by trenchless construction with restrained joints	LF	2790		
123	02512	3/4-inch to 1-inch diameter watertaps and copper service line with meter box, short side	EA	157		
124	02512	3/4-inch to 1-inch diameter watertaps and copper service line with meter box, long side	EA	159		
125	02512	1-1/2-inch to 2-inch diameter watertap and service line with meter box, short side	EA	4		
126	02512	1-1/2-inch to 2-inch diameter watertap and service line with meter box, long side	EA	6		
127	02513	2-inch diameter wet connection	EA	3		
128	02513	4-inch diameter wet connection	EA	5		
129	02513	6-inch diameter wet connection	EA	5		
130	02513	8-inch diameter wet connection	EA	12		
131	2516	Cut, plug, and abandon existing 2-inch diameter water line	EA	6		
132	2516	Cut, plug, and abandon existing 4-inch diameter water line	EA	1		
133	02516	Cut, plug, and abandon existing 6-inch diameter water line	EA	1		
134	02516	Cut, plug, and abandon existing 8-inch diameter water line	EA	17		
135	02516	Cut, plug, and abandon existing 12-inch diameter water line	EA	3		
136	02520	Fire hydrant assembly, all depths, including 6-inch diameter gate valve and box	EA	33		
137	02520	6-inch diameter fire hydrant branch by open-cut	LF	192		
138	02520	Remove and salvage existing fire hydrant	EA	29		
140	02525	12-inch by 8-inch diameter tapping sleeve and valve with box	EA	3		
			SUBTOTAL:			
B6. TRAFFIC SIGNALS:						
141	02221	Remove Existing Pole Foundation	EA	4		
142	02582	4-Inch Pole all style with foundation	EA	4		
143	02582 02465	35-feet Mast arm Pole Assembly	EA	2		
144	02582 02465	25-feet Mast arm Pole Assembly	EA	2		
145	02893	Electrical Service Pedestal Assembly-30 AMP & 60 AMP (Square D breakers included)	EA	1		

146	02893	Remove and Salvage Existing Traffic Signal Equipment	LS	1		
147	02893	Overhead Street Name Signs	EA	4		
148	02893	Sign, "NO THRU TRUCKS", R5-2A - All sizes	EA	1		
149	02893	Sign, "NO TURN ON RED" w/ "3:45 - 7:45 PM", R10-11A - All sizes	EA	2		
150	02893	Sign, "NO TURN ON RED" w/ "6:00 - 9:15 AM", R10-11A - All sizes	EA	2		
151	02893	Controller Cabinet Foundation with Apron (All types)	EA	1		
152	16710	Type A Pull Box with Gravel and Ground Rod	EA	3		
153	16710	Type B Pull Box with Gravel and Ground Rod	EA	4		
154	16711	Condiut 1 1/2-Inch Sch 80 PVC Trench	LF	190		
155	16711	Conduit 2-Inch Sch 80 PVC Trench	LF	90		
156	16711	Conduit 2 1/2-Inch Rigid	LF	40		
157	16711	Conduit 3-Inch Sch 80 PVC Trench	LF	210		
158	16711	Conduit 4-Inch Sch 80 PVC Trench	LF	230		
159	16711	Conduit 4-Inch Sch 80 PVC Bore	LF	125		
160	16713	Pre-Formed Loops	EA	4		
161	16715	3-Section Horizontal Vehicle Signal Head assembly (Yellow) (Including Back Plates)	EA	8		
162	16715	3-Section Verticle Vehicle Signal Head assembly (Yellow) (Including Back Plates)	EA	2		
163	16719	LED Pedestrian Signal Head Assembly (Yellow) (Symbolic) (Countdown)	EA	8		
164	16720	Detector Lead-In Cable 14 AWG IMSA 50-2-1984	LF	500		
165	16720	3/C-#14 AWG IMSA 19-1-1984	LF	1,165		
166	16720	5/C-#14 AWG IMSA 19-1-1984	LF	1,000		
167	16720	7/C-#14 AWG IMSA 19-1-1984	LF	1,460		
168	16720	#6 AWG THHN Service Wire	LF	100		
169	16720	#8 AWG Solid Bare Ground	LF	375		
170	16720	#4 AWG Solid Bare Ground	LF	85		
171	16724	Emergency Vehicle Preemtion System	EA	1		
172	16725	Dynamic Message Sign	EA	2		
173	16727	Loop Detector Sawcut With Loop Wire	LF	380		
174	16730	ITS Controller Cabinet Assembly (Model 340) (Type 2070L) (GPS Serial Comm Module) (UPS Battery Back-Up System)	EA	1		
175	16737	COMMUNICATION SERVICE BOX WITH GRAVEL AND GROUND ROD (Pullbox - Type C, Adjacent to the Controller Cabinet)	EA	1		
176	16750	Accessible Pedestrian Push Button System (Central Control Unit and Eight Push Button Stations, Including Signs)	EA	1		
			SUBTOTAL:			
B7. CUSTOM:						
177	01562	Install Zero Curb Cutback	LF	3525		
178	01562	Install Checker Plate Sidewalk Construction	SF	2,499		
179	02221	Remove Communication Manhole	EA	6		
180	02221	Remove Duct (1) Conduit	LF	97		
181	02221	Remove Multi-Duct (4-9) Conduit	LF	576		

182	02221	Remove Multi-Duct (27) Conduit	LF	307		
183	02915	Tree Planting (4" Live Oak)	EA	14		
184	02915	Tree Planting (4" Monterrey Oak)	EA	6		
185	02915	Tree Planting (4" Chinese Pistache)	EA	74		
186	02915	Tree Planting (4" Savannah Holly)	EA	15		
187	02915	Tree Planting (4" Bur Oak)	EA	8		
188	02915	Tree Planting (4" Cedar Elm)	EA	3		
			SUBTOTAL:			
			TOTAL:			

C. EXTRA UNIT PRICE TABLE:

Item No.	Spec. Ref.	Extra Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in figures
1	02318	Excavation around obstructions	CY	300	$20.00 (2)	$6,000.00 (2)
2	02318	Extra hand excavation	CY	300	$30.00 (2)	$9,000.00 (2)
3	02318	Extra machine excavation	CY	300	$20.00 (2)	$6,000.00 (2)
4	02318	Extra placement of backfill material	CY	300	$20.00 (2)	$6,000.00 (2)
5	02318	Extra cement-stabilized sand	CY	400	$30.00 (2)	$12,000.00 (2)
6	03315	Extra class "A" Concrete with or without forms	CY	150	$160.00 (2)	$24,000.00 (2)
7	02501	Extra DI Water Line Fittings	TON	7	$14,000.00 (1)	$98,000.00 (1)
TOTAL EXTRA UNIT PRICES						$161,000.00

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D. CASH ALLOWANCE TABLE:

Item No.	Spec Ref.	Cash Allowance Short Title	Cash Allowance in figures (1)
1	1110	Street Cut Permit Fees	$5,000.00
TOTAL CASH ALLOWANCES			$5,000.00

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E. ALTERNATES TABLE:

Item No.	Spec. Ref.	Alternate Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total Price for Alternate in figures
1		N/A				
TOTAL ALTERNATES						$_____

REST OF PAGE INTENTIONALLY LEFT BLANK

F. TOTAL BID PRICE: $_____

(Add Totals for Items A., B., C., and D. above)

2.0 SIGNATURES: By signing this Document, I agree that I have received and reviewed all Addenda and considered all cost associated with the Addenda in calculating the Total Bid Price.

Bidder: _____

(Print or Type full name of your proprietorship, partnership, corporation, or joint venture. *)

**By: _____

Signature Date Date

Name: _____

Print or Type Name Title

Address: _____

Mailing

_____

(Street, if different)

Telephone and Fax Number: _____

(Print or type numbers)

* If Bid is a joint venture, add additional Bid Form signature sheets for each member of the joint venture.

* Bidder certifies that the only person or parties interested in this offer as principals are those named above. Bidder has not directly or indirectly entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding.

Note: This document constitutes a government record, as defined by § 37.01 of the Texas Penal Code. Submission of a false government record is punishable as provided in § 37.10 of the Texas Penal Code.

Footnotes for Tables B through E:
(1) Fixed Unit Price determined prior to Bid. Cannot be adjusted by the Bidder.
(2) Minimum Bid Price determined prior to Bid. Can be increased by the Bidder by crossing out the Minimum and noting revised price on the line above.
(3) Maximum Bid Price determined prior to Bid. Can be decreased but not increased by Bidder by crossing out the Maximum and noting revised price on the line above. A Bid that increases the Maximum Bid Price may be found non-conforming and non-responsive.
(4) Fixed Range Bid Price determined prior to Bid. Unit Price can be adjusted by Bidder to any amount within the range defined by crossing out prices noted and noting revised price on the line above.

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Document 00495

POST-BID PROCEDURES

3.0 DOCUMENT ADDRESSES

A. Notice of Intent to Award

B. Monitoring Authority/Contracting Department

C. Requirements of Bidder

D. Failure of Bidder to comply with requirements

E. Notice to Proceed

4.0 NOTICE OF INTENT TO AWARD

A. The City will provide written Notice of Intent to Award to Low Bidder.

5.0 DEFINITIONS

A. The "Monitoring Authority" or "OBO" for this Project is:

Director, Office of Business Opportunity Division
City of Houston
611 Walker Street, 7th Floor
Houston, Texas 77002

B. The "Contracting Department" for this Project is:
Director, Department of DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
City of Houston
611 Walker Street
Houston, Texas 77002
ATTN: **Ben Bansal, P.E.,**

6.0 REQUIREMENTS OF BIDDER

A. Within10 days of receipt of Notice of Intent to Award, Low Bidder shall execute and deliver to Ben Bansal, P.E., Project Manager and Monitoring Authority, for the City's approval, documents indicated by an "X" below:
[ ] Document 00570 – Revised MWSBE Participation Plan *(Do not submit if OBO Director approved Bidder's Plan – Document 00470)*

[X] Executed Subcontract(s), Letter(s) of Intent, or documentation of good faith efforts to meet the MWSBE goals

B. Within 10 days of receipt of Notice of Intent to Award, Low Bidder shall execute and deliver to Ben Bansal, P.E., Project Manager for the City's approval, documents indicated by an "X" below:

[ ] Document 00500 - Form of Business
[X] Document 00501 - Resolution of Contractor
[X] Document 00520 - Agreement
[X] Document 00600 - List of Proposed Subcontractors and Suppliers
[X] Document 00601 - Drug Policy Compliance Agreement
[X] Document 00602 - Contractor's Drug-free Workplace Policy *(Contractor creates this document.)*
[X] Document 00604 - History of OSHA Actions and List of On-the-job Injuries
[X] Document 00605 - List of Safety Impact Positions *(Contractor completes this list. Do not submit if submitting Document 00606.)*
[ ] Document 00606 - Contractor's Certification of No Safety Impact Positions *(Do not submit if submitting Document 00605.)*
[ ] Document 00607 - Certification Regarding Debarment, Suspension, and Other Responsibility Matters
[ ] Document 00608 - Contractor's Certification Regarding Non-segregated Facilities for Project Funded by AIP Grant
[X] Document 00610 - Performance Bond
[X] Document 00611 - Statutory Payment Bond
[X] Document 00612 - One-year Maintenance Bond
[X] Document 00613 - One-year Surface Correction Bond
[X] Document 00620 - Affidavit of Insurance *(with Certificate of Insurance attached)*
[X] Document 00622 - Name and Qualifications of Proposed Superintendent *(Contractor creates this document.)*
[ ] Document 00623 - Contractor's Act of Assurance (SRF Form ED-103)
[X] Document 00624 - Affidavit of Compliance with S/WMBE Program
[ ] Document 00625 - SRF Participation Summary
[ ] Document 00626 - SRF Affirmative Steps Solicitation Report
[ ] Document 00627 - SRF Prime Contractor Affirmative Steps Certification and Goals
[ ] Document 00629 - Affidavit for FAA Form 7460-1
[X] Document 00630 - Certification of Compliance with Pay or Play Program
[X] Document 00631 - City of Houston Pay or Play Program – List of Subcontractors
[ ] Document 00809 – CDBG Requirements for Federally Funded Projects

C. Within 10 days of receipt of Notice of Intent to Award, Low Bidder shall execute the following forms and deliver them directly to the Monitoring Authority.

1. Original forms contained in Document 00805 – Equal Employment Opportunity Program Requirements:
   [X] Pages 00805-3 to 00805-5, Certification by Bidder Regarding Equal

Employment Opportunity

[X] *Page 00805-6, Total Work Force Composition of the Company, or copy of latest EEO-1 form (required only if Contractor has a work force of 50 or more people and the Original Contract Price is $50,000 or more)*

[X] *Page 00805-7, Equal Employment Opportunity Compliance Program*

[X] *Page 00805-26, Certification by Proposed Subcontractor Regarding Equal Employment Opportunity*

[X] *Page 00805-29, Certification by Proposed Material Supplier, Lessor, and Professional Service Providers Regarding Equal Employment Opportunity*

2. Original completed form Document 00633 - Certification by Proposed Material Suppliers, Lessors, and Professional Service Providers Regarding Equal Employment Opportunity, for each proposed material supplier and equipment supplier.

3. Original forms contained in Document 00820 – Wage Scale for Engineering Construction.

[X] *Certificate from Contractor Appointing Officer or Employee to Supervise Payment of Employees*

[ ] *Certificate from SubContractor Appointing Officer or Employee to Supervise Payment of Employees*

[ ] Document 00812, Exhibit "A" – Certificate from Contractor Appointing Officer or Employee to Supervise Payment of Employees

D. Designations of Subcontractors and Suppliers, who have been selected by Bidder in Document 00600 - List of Proposed Subcontractors and Suppliers, and accepted by the City, may be changed only with prior notice and acceptance by Project Manager as provided in Conditions of the Contract. For each Product Supplier subsequently added or substituted, provide an original completed form, Document 00633 - Certification by Proposed Material Suppliers, Lessors, and Professional Service Providers Regarding Equal Employment Opportunity, directly to the Monitoring Authority.

E. On Bidder's written request, Ben Bansal, P.E., Project Manager may grant an extension of time, not to exceed 5 days, to furnish documents specified in Paragraphs 4.0.A and 4.0.B. If Bidder is required to resubmit documents specified in Paragraph 4.0.A or 4.0.B, Bidder shall do so within time limits provided in the request for resubmission.

F. Designations of Subcontractors and Suppliers, who have been selected by Bidder in its Participation Plan, and accepted by the City, may be changed only with prior notice and acceptance by the Monitoring Authority as provided in Document 00808 – Bidder/Contractor Requirements for the City of Houston Minority, Women, and Small Business Enterprise (MWSBE), and Persons with Disabilities Business Enterprise (PDBE).

5.0 FAILURE OF BIDDER TO COMPLY WITH REQUIREMENTS

A. Should Bidder, on receipt of Notice of Intent to Award, fail to comply with requirements of this Document 00495 within stated time, the City may declare award in default and require forfeiture of the Security Deposit.

B. After the City's written notice of default to Low Bidder, the City may award the Contract to Bidder whose offer is the next lowest bid, and Security Deposit of Bidder in default shall be forfeited to the City in accordance with provisions of Document 00200 - Instructions to Bidders.

6.0 NOTICE TO PROCEED

A. Upon the City's execution of the Agreement and delivery to Contractor, City Engineer will give Document 00551 - Notice to Proceed to Contractor, which establishes Date of Commencement of the Work.

END OF DOCUMENT

Section 01110

SUMMARY OF WORK

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Summary of the Work including work by the City, City-furnished Products, work sequence, future work, Contractor use of Premises, special conditions for substantial completion and City occupancy.

1.02 WORK COVERED BY CONTRACT DOCUMENTS

A. Work of the Contract as shown in the Contract Documents (Contract Drawings and Project Manual) is for construction of tree protection, demolition and removal of existing asphalt pavement, concrete pavers, storm manholes, inlets and sewers, and abandonment of existing water mains. Work includes construction of new water mains, drainage improvements, gravity sanitary sewers, construction of reinforced concrete pavement and curb, construction of temporary and permanent traffic signals, signing and striping, placement of sod and tree planting for the following streets within the City of Houston:

W Alabama Street from Brandt Street to Spur 527
Sul Ross Street from Montrose Boulevard to Brandt Street
Branard Street from Montrose Boulevard to Spur 527
W Main Street from Montrose Boulevard to Bute Street
Colquitt Street from Montrose Boulevard to Garrott Street
Roseland Street from Richmond Avenue to W Alabama Street
Stanford Street from Richmond Avenue to W Alabama Street
Greeley Street from Richmond Avenue to W Alabama Street
Jack Street from Richmond Avenue to W Alabama Street
Garrott Street from Spur 527 to W Alabama Street
Bute Street from W Main Street to W Alabama Street
Brandt Street from Sul Ross Street to W Alabama Street

1. Tree and plant protection work (Specification 01562) consists of protecting-in-place, pruning, and/or removing existing trees within the project area in accordance with the City of Houston Street Tree Ordinance and the plans. Work includes pruning existing street canopies to facilitate construction equipment access or to protect trees from damage or displacement by construction equipment. Contractor shall contract the services of an experienced, qualified arborist for the tree protection work of the project and shall coordinate with and receive approval from City Arborist prior to removing any and all trees shown for removal in the Tree Protection Plan.

2. Demolition work consists of the removal of existing reinforced concrete pavement with curb; asphalt concrete pavement and base of varying thickness with and without monolithic curb and gutter; sidewalks, driveways and off-street parking spaces; storm manholes, inlets, culverts and sewers; sanitary manholes and sewers; abandonment of existing storm sewers, culverts and water mains, removal of communication manholes and selected duct bank runs all within limits of the existing streets' rights-of-way. Approximately 200-LF of asbestos cement (AC) water main will be removed requiring special handling and paid for as shown in Document 00410. Demolition work on Colquitt and Sul Ross also includes removal of abandoned AT&T manholes in addition to duct banks where conflicts are identified with proposed water, sanitary sewer, and storm sewer improvements.

3. Water main work consists of constructing 8-inch water main, fittings, valves and fire hydrants, transferring services, and grid interconnects. The auger method will be used for construction unless otherwise shown on the construction drawings, indicated in the Project Manual, or instructed by the City Engineer.

4. Storm drainage work consists of constructing inlets, manholes, reinforced concrete pipe leads, systems of pipe sewers ranging from 24- to 84-inches in diameter.

5. Sanitary sewer work consists of constructing new manholes and 8- to 36-inch diameter gravity sewers. Sanitary sewer construction will be open cut and includes sanitary sewer leads with wye connections and stubs with and without stacks. The approximate locations of the service leads and stacks are shown in the contract drawings. Contractor shall use caution and verify the exact location of these services during construction activities. Lots along Roseland and at various other locations are currently served by back of lot connections. The City Substitute Services group will be responsible for establishing the service connections from the right of way (ROW) to the buildings under a separate project. The contractor shall extend the sanitary sewer connections to the ROW and install a temporary cap. The temporary caps shall not be paid for directly, but shall be considered subsidiary to the sanitary sewer service connection.

6. Diversion Pumping is required for construction of the proposed sanitary sewers. Contractor to conform to Section 01506 – Diversion Pumping. Cost will be considered incidental to the various construction bid items included in Document 00410 – Bid Form, Parts A & B. If Contractor encounters water service lines during sanitary sewer construction, Contractor shall repair any damaged service line promptly to avoid extended water service interruptions. The costs related to preserve the existing water service lines are incidental to all other pay items and are at no additional cost to the City of Houston.

7. Traffic signal work at the intersection of W Alabama and Stanford consists of removing the existing traffic signals, adjusting the signal heads for the various construction phases, and installing permanent traffic signals, signage and striping. Traffic control and any lane closures shall be coordinated with the City Engineer and the City Traffic Operations Section.

8. Pavement work within the rights-of-way (with the exception of Roseland Street) consists of constructing 8-inch thick reinforced concrete pavement, 27-feet wide, with 6-inch reinforced concrete curb, 4-1/2-inch thick concrete sidewalks and wheelchair ramps, and 6-inch thick concrete driveways of varying widths. Pavement work within the right-of-way of Roseland Street consists of constructing 8-inch thick reinforced concrete pavement, 36-feet wide, with 6-inch reinforced concrete curb, 4-1/2-inch thick concrete sidewalks and wheelchair ramps, and 6-inch thick concrete driveways of varying widths. All pavements will be placed on an 8-inch lime stabilized subgrade (8% lime) having the appropriate widths.

   a. Pavement work does not include replacement of existing "decorative" or "specialty" sidewalks, walkways or driveways built with non-standard materials and finishes. All existing sidewalks, walkways and driveways that are to be replaced will be replaced with standard materials and finishes.

   b. Pavement work includes placement of block sod on all disturbed, non-paved areas between the back of proposed curb and the right-of-way; and maintenance of same until grass is fully established.

   c. Site improvements including irrigation systems, planters, fences, landscaping, etc., are present in the streets' rights-of-way. Contractor shall restore the project site disturbed by construction operations at no cost to the City. Include cost in the surface improvements associated with the roadway construction.

   d. Pavement work includes restoring existing through-curb drains. Work includes connection of new pipe to the existing drain pipe at the right-of-way (make watertight connection), extension of new pipe through the proposed curb, a thickened sidewalk section and control joint. Payment is specified in Document 00410.

9. The notes "CAUTION EX. GAS FACILITIES IN AREA SEE COH SPEC. SEC 01110" and "CAUTION EX. CPE U/G FACILITIES IN AREA SEE COH SPEC. SEC. 01110" are included as a precaution to the contractor where the proposed improvements cross or are in close proximity to an existing CenterPoint Energy (CPE) gas line smaller than 4-inch, or to an existing CPE underground facility. Contractor shall exercise caution during construction of improvements in the vicinity of these facilities.

10. Throughout the project site the Contractor will be responsible for providing and installing streetlight conduit, including pull boxes, in areas identified in the plans. Contractor shall coordinate with CenterPoint Energy Lighting Design Section including scheduling of the removal and installation of streetlights and inspection of the conduit and pull boxes.

11. Additional work includes the removal and replacement of permanent signs and pavement markings.

12. Any irrigation utilities that have been disturbed due to construction shall be replaced with same quality material or better according to the City of Houston standard specifications. The cost incurred will be incidental to the various construction bid items included in Document 00410-Bid Form, Parts A&B. Contractor should verify the operation of irrigation systems with the property owner prior to starting construction.

13. The Contractor shall acknowledge the following:
    a. Due to the number of utilities that require relocation or adjustment for this project, minor adjustments to proposed utility depths or alignment as shown on the plans might be recommended during construction.

    b. The sequence of work might be revised during construction to expedite construction or to avoid possible conflicts with other utilities that might delay contractor activities.

B. The Contractor shall pay special attention to the Supplementary Specifications contained within this document as they will affect the bid items for this project.

C. Contractor shall adhere to City of Houston Street Tree Ordinance including latest amendments with regard to trees that are to be removed and relocated or removed and replaced.

1.03 CASH ALLOWANCES

A. Include the following specific Cash Allowances in Contract Price under provision of General Conditions Paragraph 3.11:

1. Removal/relocation of streetlights by CenterPoint Energy–(Cash Allowance included in Document No. 00410)

2. Street Cut Permit – (Cash Allowance included in Document No. 00410)

1.04 CITY-FURNISHED PRODUCTS

A. Items Furnished by the City for Installation and final connection by Contractor: None.

B. Contractor's Responsibilities:

1. Arrange and pay for Product delivery to the site.

2. Receive and unload Products at the site; jointly with the City, inspect for completeness or damage.

3. Handle, store, Install, and finish Products.

4. Repair or replace damaged items.

1.05 WORK SEQUENCE

A. Construct the Work in Phases in accordance with the following sequence and coordinate construction schedule and operations with the City. The work of this project shall be performed in phases in the order described below to ensure that excessive disruption to the neighborhood does not occur. Roadway construction shall be limited to two blocks at a time. Streetlight conduit or other facilities may be present in the right-of-way. Contractor shall use caution while working near these facilities. Repair or replacement of these facilities damaged by construction activities will be the contactor's responsibility and at no cost to the City.

1. Place advance signing on cross streets and work area street's approaches. Place detour signing appropriate for the work zones. Place traffic control measures including barricades, vertical panels, drums, concrete barriers, signing, striping, flaggers, etc. appropriate for the phase of the work, in

accordance with the contract documents, and in compliance with the requirements of the Texas Manual on Uniform Traffic Control Devices, latest edition. Install SW3P and tree protection.

2. Construct water lines by trenchless methods and install water valves and fire hydrants and construct the sanitary sewer system according to the plans. Reconnect water and sanitary sewer services at the property line from the existing lines and to the new lines. Due to conflicts between the proposed storm sewer and the existing water and sanitary sewer lines, the proposed water and sanitary sewer lines will need to be in service prior to the construction of the storm sewer.

3. Construct temporary detour pavement on south side of W. Alabama from west of Brandt Street to west of Day Street. Shift traffic to the detour and close the north lane on W. Alabama Street from Brandt Street to Milam Street. Construct the storm sewer system along that corridor while maintaining one-lane each direction along the south side of West Alabama. Upon completion of the storm sewer installation, replace the pavement and curbing damaged or removed and return the right of way to its pre-construction condition in accordance with the plans and specifications.

4. Construct the sanitary sewer mains, manholes, and services, followed by the construction of the storm sewer mains, laterals, inlets, and manholes for the section of Brandt Street from W. Alabama Street to Sul Ross Street and the section of Sul Ross Street from Brandt Street to and including the intersection at Bute Street. Use diversion pumping for continuation of sanitary sewer service during construction. Construct one-half of Brandt Street at a time while maintaining one-lane, two-way traffic with flagger operations from W. Alabama Street to the end of the street near Spur 527. Construct one-half of Sul Ross Street at a time while maintaining one-lane, two-way traffic with flagger operations from Brandt Street to and including the intersection at Bute Street. Intersections shall be constructed one-quarter of the intersection at a time while maintaining one-lane, two-way traffic with flagger operation along street being reconstructed. Contractor shall temporarily eliminate on-street parking along the portion of street under construction in coordination with and with the approval from the City Traffic Operations Section and/or City Engineer and notify the residents and business owners affected 72 hours in advance of parking removal by the use of door hangers and, if possible, verbal notification in addition to "No Parking" signs. The communications, door hangers, and "No Parking" signs shall not be paid for directly, but shall be considered subsidiary to payment under the bid item for Traffic Control.

5. In a similar sequence to 4 above, construct the sanitary sewer, storm sewer, and roadway improvements on Bute Street from the intersection at W. Alabama Street to Sul Ross Street and on Sul Ross Street from near Garrott Street to near Bute Street.

6. In a similar sequence to 4 above, construct the sanitary sewer, storm sewer, and roadway improvements on Bute Street from near the intersection at Sul Ross Street to near the intersection at Branard Street.

7. In a similar sequence to 4 above, construct the sanitary sewer, storm sewer, and roadway improvements on Branard Street from near the Garrott Street intersection to and including the Bute Street intersection.

8. In a similar sequence to 4 above, construct the sanitary sewer, storm sewer, and roadway improvements on Garrott Street from near the W. Main intersection to and including the Branard Street intersection.

9. In a similar sequence to 4 above, construct the sanitary sewer, storm sewer, and roadway improvements on Bute Street from near the intersection at W. Main Street to near the intersection at Branard Street.

10. In a similar sequence to 4 above, construct the sanitary sewer, storm sewer, and roadway improvements on Branard Street from near the intersection at Bute Street to Spur 527.

11. In a similar sequence to 4 above, construct the sanitary sewer, storm sewer, and roadway improvements on Sul Ross Street from and including the intersection at Garrott Street to and including the storm sewer system west of the intersection at Jack Street.

12. In a similar sequence to 4 above, construct the sanitary sewer, storm sewer, and roadway improvements on Jack Street from the intersection at W. Alabama to the intersection at Sul Ross and on Sul Ross from near the Greeley Street intersection to near the Jack Street intersection.

13. In a similar sequence to 4 above, construct the sanitary sewer, storm sewer, and roadway improvements on Garrott Street from near the intersection at W. Alabama to near the intersection at Sul Ross Street and from near the Sul Ross Street intersection to the Branard Street intersection.

14. In a similar sequence to 4 above, construct the sanitary sewer, storm sewer, and roadway improvements on W. Main Street from near the Greeley Street intersection to and including the intersections at Jack Street and Garrott Street.

15. In a similar sequence to 4 above, construct the sanitary sewer, storm sewer, and roadway improvements on W. Main Street east of the Garrott Street intersection to and including the intersection at Bute Street.

16. In a similar sequence to 4 above, construct the sanitary sewer, storm sewer, and roadway improvements on Stanford Street from near the W. Alabama intersection to and including the Sul Ross St. intersection.

17. In a similar sequence to 4 above, construct the sanitary sewer, storm sewer, and roadway improvements on Sul Ross Street from and including the intersection at Roseland Street to the intersection at Stanford Street and on Sul Ross Street from near the Stanford Street intersection to and including the Greeley Street intersection.

18. In a similar sequence to 4 above, construct the sanitary sewer, storm sewer, and roadway improvements on Greeley Street from near the intersection at Sul Ross Street to and including the intersection at Branard Street and on Branard Street from the Greeley Street intersection to the Jack Street intersection.

19. In a similar sequence to 4 above, construct the sanitary sewer, storm sewer, and roadway improvements on Jack Street from near the intersection at Sul Ross Street through and including the intersection at Branard Street and to the W. Main Street intersection.

20. In a similar sequence to 4 above, construct the sanitary sewer, storm sewer, and roadway improvements on Branard Street from the Jack Street intersection to the Garrott Street intersection.

21. In a similar sequence to 4 above, construct the sanitary sewer, storm sewer, and roadway improvements on Sul Ross Street from near the intersection at Montrose Blvd. to near the intersection at Roseland Street and on Roseland Street from the W. Alabama Street intersection to the Sul Ross St. intersection.

22. After AT&T completes relocation of their facilities along Colquitt, the Contractor shall submit a modified schedule for the construction of the remaining roadway and utility improvements. The modified schedule is to be approved by the City Engineer prior to implementation for the construction of the remaining roadway and utility improvements. Work on Colquitt and Sul Ross includes removal of abandoned AT&T manholes in addition to duct banks where conflicts are identified with proposed water, sanitary sewer, and storm sewer improvements.

23. When needed and upon approval of the City Engineer, close northernmost lane of Richmond Avenue while maintaining one-lane west bound traffic along Richmond and construct intersection tie-ins along Richmond Avenue. No more than one intersection connection to Richmond shall be under construction at any one time.

24. When determined to be needed by and upon approval of the City Engineer, close easternmost lane of Montrose Boulevard while maintaining one-lane northbound traffic along Montrose Blvd. No more than one intersection connection to Montrose Blvd shall be under construction at any one time.

25. When determined to be needed by and upon approval of the City Engineer, close southernmost lane of W. Alabama and shift eastbound traffic to center lane maintaining one-lane east bound and one-lane westbound traffic along W Alabama. No more than one intersection connection to W. Alabama shall be under construction at any one time.

26. When determined to be needed by and upon approval of the City Engineer, close westernmost lane of Spur 527 and shift southbound traffic to left lane maintaining one-lane south bound traffic along Spur 527. No more than one intersection connection to Spur 527 shall be under construction at any one time. These lane closures shall be in accordance with TxDOT permit requirements, and the contractor shall notify TxDOT 48 hours in advance of any closure or work in the TxDOT ROW.

27. Upon completion of the intersection improvements, install replacement pavement markings and markers modified during construction with new and return traffic to appropriate lanes. Install signs as required.

B. Coordination of the Work: Refer to Section 01312 - Coordination and Meetings.

Contractor is responsible for scheduling and coordinating construction activities associated with private utility construction so as not to adversely impact the construction schedule. Only one mobilization is allowed for this contract. Contractor will notify the City's representative once the utility relocation schedule has been established. See below for contact information for the private utility companies.

- CenterPoint Energy Electric: Contact Cynthia Martinez, Tel: (713) 207-6555.
- CenterPoint Energy Gas: Contact Oscar Juria Tel: (713) 207-4884.
- AT&T: Contact James Manahl, Tel: (713) 918-0043.
- Comcast: Contact Helbert Salandanan Tel: (281) 624-3024
- Zayo / Level III: Contact Dean Lippe Tel: (713) 344-2171
- Phonoscope: Contact Hugo Espinosa Tel: (832) 892-8930

The contractor shall coordinate work in the vicinity of the High School for the Performing and Visual Arts.

- Contact R. Scott Allen, Principal, 4001 Stanford Street Houston, Tx 77006-4948 Tel: 713-942-1960

1.06 CONTRACTOR USE OF PREMISES

A. Comply with procedures for access to the site and Contractor's use of rights-of-way as specified in Section 01145 - Use of Premises.

B. Construction Operations: Limited to the City's rights-of-way provided by the City and areas shown or described in the Contract documents.

C. Utility Outages and Shutdown: Provide a minimum of 48 hours' notice to the City and private utility companies (when applicable), excluding weekends and holidays, in advance of required utility shutdown. Coordinate all work as required.

D. Private Utility Relocations: Pursuant to Section 40-395 of the City of Houston (City) Utility Relocation Ordinance Program (URO), the following private utilities were identified and scheduled for relocation within the scope of the project limits. Based upon the relocation schedules provided by the utility owners, the City anticipates these relocations to be completed by the dates listed below and, unless otherwise stated, clearance of these potential obstructions will be performed by their respective owners. The following is a description of the private utilities identified for relocation within the project limits:

Private Utility Owner: AT&T*			
Location	Type of Facility	Estimated Clearance Date	Anticipated Effect on Construction
Colquitt	U/G duct bank and manholes	November 2016	Delay start of Colquitt utility / road construction
Project - Wide	Aerial lines on poles	September 2016	Minimal, if any
*Verizon / MCI lines	are located in AT&T duct bank		

Private Utility Owner: CenterPoint Energy Electric			
Location	Type of Facility	Estimated Clearance Date	Anticipated Effect on Construction
Project - Wide	Aerial lines on CNP Energy poles	July 2016	Minimal, if any

Private Utility Owner: CenterPoint Energy Gas			
Location	Type of Facility	Estimated Clearance Date	Anticipated Effect on Construction
Project - Wide	U/G gas lines of various sizes	May 2016	Minimal, if any

Private Utility Owner: Zayo / Level 3			
Location	Type of Facility	Estimated Clearance Date	Anticipated Effect on Construction
Project - Wide	U/G communication lines	February 2016	Minimal, if any

Private Utility Owner: Phonoscope			
Location	Type of Facility	Estimated Clearance Date	Anticipated Effect on Construction
Project - Wide	Aerial lines on CNP Energy poles	July 2016	Minimal, if any

Private Utility Owner: Comcast			
Location	Type of Facility	Estimated Clearance Date	Anticipated Effect on Construction
Project - Wide	Aerial lines on CNP Energy poles	July 2016	Minimal, if any

Private Utility Owner: Wavevision			
Location	Type of Facility	Estimated Clearance Date	Anticipated Effect on Construction
Project - Wide	Aerial lines on CNP Energy poles	July 2016	Minimal, if any

1.07 STREET CUT ORDINANCE

A. Excavations on or under pavement in the City's right-of-way must have a permit. Comply with City of Houston, Texas Ordinance No. 2000-1115, an ordinance amending Chapter 40 of the Code of Ordinances, Houston, Texas, relating to excavating in the Public right-of-way.

B. Comply with the latest edition of street cut New Pavement Repair and Pavement Replacement details.

C. Quantities are included for street cut pavement repair and replacement in applicable Specification sections for Unit Price contracts.

1.08 WARRANTY

A. Comply with warranty requirements in accordance with Document 00700 - General Conditions.

1.09 ADDITIONAL CONDITIONS FOR SUBSTANTIAL COMPLETION

A. In addition to requirements outlined in Document 00700 – General Conditions, for Contractor to be substantially complete with the Work and call for inspection by Project Manager to confirm, the following conditions must be met or completed:

1. All testing shall be completed and accepted by Project Manager.

2. All safety-related systems and equipment shall be installed, accepted by manufacturer's representative and approved for use.

3. All pay items complete report.

4. Contractor shall contact Construction Project Manager to complete Texas Department of Licensing and Regulation post-construction inspection of pedestrian elements for Texas Accessibility Standards.

B. No additional condition described in Paragraph 1.09 may be included in Contractor's punch list.

PART 2 P R O D U C T S - Not Used

PART 3 E X E C U T I O N - Not Used

END OF SECTION

SHEET NO.	TITLE
	GENERAL
1	COVER SHEET
2	INDEX OF SHEETS
3	LEGENDS AND ABBREVIATIONS SHEET
4	GENERAL NOTES
5	PROJECT LAYOUT
6	SANITARY SEWER LAYOUT
7	WATER LINE LAYOUT
8	STORM SEWER LAYOUT
9	SURVEY CONTROL MAP (SHEET 1 OF 2)
10	SURVEY CONTROL MAP (SHEET 2 OF 2)
11	OMITTED
12	SWING-TIES (SHEET 1 OF 3)
13	SWING-TIES (SHEET 2 OF 3)
14	SWING-TIES (SHEET 3 OF 3)
15	EXISTING TYPICAL SECTIONS
16	PROPOSED TYPICAL SECTIONS
	DRAINAGE DETAILS
17	DRAINAGE AREA MAP OVERALL EXISTING & PROPOSED
18	DRAINAGE AREA MAP (SHEET 1 OF 8)
19	DRAINAGE AREA MAP (SHEET 2 OF 8)
20	DRAINAGE AREA MAP (SHEET 3 OF 8)
21	DRAINAGE AREA MAP (SHEET 4 OF 8)
22	DRAINAGE AREA MAP (SHEET 5 OF 8)
23	DRAINAGE AREA MAP (SHEET 6 OF 8)
24	DRAINAGE AREA MAP (SHEET 7 OF 8)
25	DRAINAGE AREA MAP (SHEET 8 OF 8)
26	HYDRAULIC RUNOFF AND DATA COMPUTATIONS (SHEET 1 OF 5)
27	HYDRAULIC RUNOFF AND DATA COMPUTATIONS (SHEET 2 OF 5)
28	HYDRAULIC RUNOFF AND DATA COMPUTATIONS (SHEET 3 OF 5)
29	HYDRAULIC RUNOFF AND DATA COMPUTATIONS (SHEET 4 OF 5)
30	HYDRAULIC RUNOFF AND DATA COMPUTATIONS (SHEET 5 OF 5)
31-35	OMITTED
	PLAN AND PROFILE
36	SUL ROSS STREET PLAN STA 0+00 TO 5+00
37	SUL ROSS STREET PROFILE STA 0+00 TO 5+00
38	SUL ROSS STREET PLAN STA 5+00 TO 10+00
39	SUL ROSS STREET PROFILE STA 5+00 TO 10+00
40	SUL ROSS STREET PLAN STA 10+00 TO 15+00
41	SUL ROSS STREET PROFILE STA 10+00 TO 15+00
42	SUL ROSS STREET PLAN STA 15+00 TO 20+00
43	SUL ROSS STREET PROFILE STA 15+00 TO 20+00
44	SUL ROSS STREET PLAN STA 20+00 TO 25+00
45	SUL ROSS STREET PROFILE STA 20+00 TO 25+00
46	SUL ROSS STREET PLAN STA 25+00 TO 28+00
47	SUL ROSS STREET PROFILE STA 25+00 TO 28+00
48	BRANARD STREET PLAN STA 0+00 TO 5+00
49	BRANARD STREET PROFILE STA 0+00 TO 5+00
50	BRANARD STREET PLAN STA 5+00 TO 10+00
51	BRANARD STREET PROFILE STA 5+00 TO 10+00
52	BRANARD STREET PLAN STA 10+00 TO 15+00
53	BRANARD STREET PROFILE STA 10+00 TO 15+00
54	BRANARD STREET PLAN STA 15+00 TO 20+00
55	BRANARD STREET PROFILE STA 15+00 TO 20+00
56	BRANARD STREET PLAN STA 20+00 TO 25+00
57	BRANARD STREET PROFILE STA 20+00 TO 25+00
58	BRANARD STREET PLAN STA 25+00 TO 27+00
59	BRANARD STREET PROFILE STA 25+00 TO 27+00
60	WEST MAIN STREET PLAN STA 0+00 TO 5+00
61	WEST MAIN STREET PROFILE STA 0+00 TO 5+00
62	WEST MAIN STREET PLAN STA 5+00 TO 10+00
63	WEST MAIN STREET PROFILE STA 5+00 TO 10+00
64	WEST MAIN STREET PLAN STA 10+00 TO 15+00
65	WEST MAIN STREET PROFILE STA 10+00 TO 15+00
66	WEST MAIN STREET PLAN STA 15+00 TO 20+00
67	WEST MAIN STREET PROFILE STA 15+00 TO 20+00
68	WEST MAIN STREET PLAN STA 20+00 TO 24+00
69	WEST MAIN STREET PROFILE STA 20+00 TO 24+00
70	COLQUITT AVENUE PLAN STA 0+00 TO 5+00
71	COLQUITT AVENUE PROFILE STA 0+00 TO 5+00
72	COLQUITT AVENUE PLAN STA 5+00 TO 10+00
73	COLQUITT AVENUE PROFILE STA 5+00 TO 10+00
74	COLQUITT AVENUE PLAN STA 10+00 TO 15+00
75	COLQUITT AVENUE PROFILE STA 10+00 TO 15+00
76	COLQUITT AVENUE PLAN STA 15+00 TO 20+00
77	COLQUITT AVENUE PROFILE STA 15+00 TO 20+00
78	COLQUITT AVENUE PLAN STA 20+00 TO 22+00
79	COLQUITT AVENUE PROFILE STA 20+00 TO 22+00
80	ROSELAND STREET PLAN STA 0+00 TO 3+50
81	ROSELAND STREET PROFILE STA 0+00 TO 3+50
82	ROSELAND STREET PLAN STA 3+50 TO 7+00
83	ROSELAND STREET PROFILE STA 3+50 TO 7+00
84	ROSELAND STREET PLAN STA 7+00 TO 10+50
85	ROSELAND STREET PROFILE STA 7+00 TO 10+50
86	ROSELAND STREET PLAN STA 10+50 TO 13+50
87	ROSELAND STREET PROFILE STA 10+50 TO 13+50
88	ROSELAND STREET PLAN STA 13+50 TO 16+50
89	ROSELAND STREET PROFILE STA 13+50 TO 16+50
90	ROSELAND STREET PLAN STA 16+50 TO 19+00
91	ROSELAND STREET PROFILE STA 16+50 TO 19+00
92	STANFORD STREET PLAN STA 0+00 TO 3+50
93	STANFORD STREET PROFILE STA 0+00 TO 3+50
94	STANFORD STREET PLAN STA 3+50 TO 7+00
95	STANFORD STREET PROFILE STA 3+50 TO 7+00
96	STANFORD STREET PLAN STA 7+00 TO 10+50
97	STANFORD STREET PROFILE STA 7+00 TO 10+50
98	STANFORD STREET PLAN STA 10+50 TO 13+50
99	STANFORD STREET PROFILE STA 10+50 TO 13+50
100	STANFORD STREET PLAN STA 13+50 TO 16+50
101	STANFORD STREET PROFILE STA 13+50 TO 16+50
102	STANFORD STREET PLAN STA 16+50 TO 19+00
103	STANFORD STREET PROFILE STA 16+50 TO 19+00
104	GREELEY STREET PLAN STA 0+00 TO 3+50
105	GREELEY STREET PROFILE STA 0+00 TO 3+50
106	GREELEY STREET PLAN STA 3+50 TO 7+00
107	GREELEY STREET PROFILE STA 3+50 TO 7+00
108	GREELEY STREET PLAN STA 7+00 TO 10+50
109	GREELEY STREET PROFILE STA 7+00 TO 10+50
110	GREELEY STREET PLAN STA 10+50 TO 13+50
111	GREELEY STREET PROFILE STA 10+50 TO 13+50
112	GREELEY STREET PLAN STA 13+50 TO 16+50
113	GREELEY STREET PROFILE STA 13+50 TO 16+50
114	GREELEY STREET PLAN STA 16+50 TO 18+50
115	GREELEY STREET PROFILE STA 16+50 TO 18+50
116	JACK STREET PLAN STA 0+00 TO 3+50
117	JACK STREET PROFILE STA 0+00 TO 3+50
118	JACK STREET PLAN STA 3+50 TO 7+00
119	JACK STREET PROFILE STA 3+50 TO 7+00
120	JACK STREET PLAN STA 7+00 TO 10+50
121	JACK STREET PROFILE STA 7+00 TO 10+50
122	JACK STREET PLAN STA 10+50 TO 13+50
123	JACK STREET PROFILE STA 10+50 TO 13+50
124	JACK STREET PLAN STA 13+50 TO 16+50
125	JACK STREET PROFILE STA 13+50 TO 16+50
126	JACK STREET PLAN STA 16+50 TO 18+50
127	JACK STREET PROFILE STA 16+50 TO 18+50
128	GARROTT STREET PLAN STA 0+00 TO 3+50
129	GARROTT STREET PROFILE STA 0+00 TO 3+50
130	GARROTT STREET PLAN STA 3+50 TO 7+00
131	GARROTT STREET PROFILE STA 3+50 TO 7+00
132	GARROTT STREET PLAN STA 7+00 TO 10+50
133	GARROTT STREET PROFILE STA 7+00 TO 10+50
134	GARROTT STREET PLAN STA 10+50 TO 13+50
135	GARROTT STREET PROFILE STA 10+50 TO 13+50
136	GARROTT STREET PLAN STA 13+50 TO 16+00
137	GARROTT STREET PROFILE STA 13+50 TO 16+00
138	BUTE STREET PLAN STA 0+00 TO 3+50
139	BUTE STREET PROFILE STA 0+00 TO 3+50
140	BUTE STREET PLAN STA 3+50 TO 7+00
141	BUTE STREET PROFILE STA 3+50 TO 7+00
142	BUTE STREET PLAN STA 7+00 TO 10+50
143	BUTE STREET PROFILE STA 7+00 TO 10+50
144	BUTE STREET PLAN STA 10+50 TO 12+50
145	BUTE STREET PROFILE STA 10+50 TO 12+50
146	BRANDT STREET PLAN STA 0+00 TO 3+50
147	BRANDT STREET PROFILE STA 0+00 TO 3+50
148	BRANDT STREET PLAN STA 3+50 TO 6+00
149	BRANDT STREET PROFILE STA 3+50 TO 6+00
150	WEST ALABAMA STREET PLAN STA 0+00 TO 5+98.27
151	WEST ALABAMA STREET PROFILE STA 0+00 TO 5+98.27
152	DRIVEWAY SCHEDULE & TYPICAL DETAIL PLAN (1 OF 2)
153	DRIVEWAY SCHEDULE & TYPICAL DETAIL PLAN (2 OF 2)
154-158	OMITTED
	TRAFFIC CONTROL PLANS
159	TRAFFIC CONTROL PLAN TPC-1
160	TRAFFIC CONTROL PLAN TPC-2
161	TRAFFIC CONTROL PLAN TPC-3
162	TRAFFIC CONTROL PLAN TPC-4
163	TRAFFIC CONTROL PLAN TPC-5
164	TRAFFIC CONTROL PLAN TPC-6
165	TRAFFIC CONTROL PLAN TPC-7
166	TRAFFIC CONTROL PLAN TPC-8
167	TRAFFIC CONTROL PLAN TPC-9
168	TRAFFIC CONTROL PLAN TPC-10
169	TRAFFIC CONTROL PLAN TPC-11
170	TRAFFIC CONTROL PLAN TPC-12
171	TRAFFIC CONTROL PLAN TPC-13
172	TRAFFIC CONTROL PLAN TPC-14
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173	TRAFFIC SIGNAL NOTES SHEET (SHEET 1 OF 2)
174	TRAFFIC SIGNAL NOTES SHEET (SHEET 2 OF 2)
175	EXISTING TRAFFIC SIGNAL PLAN SHEET
176	PROPOSED TRAFFIC SIGNAL PLAN SHEET
177	POLE SCHEDULE SHEET
178	CABLE SCHEMATIC SHEET
179	TRAFFIC SIGNAL DETAILS (SHEET 1 OF 4)
180	TRAFFIC SIGNAL DETAILS (SHEET 2 OF 4)
181	TRAFFIC SIGNAL DETAILS (SHEET 3 OF 4)
182	TRAFFIC SIGNAL DETAILS (SHEET 4 OF 4)
	STRIPING AND SIGNAGE
183	PERMANENT PAVING MARKING AND SIGNAGE PLAN (SHEET 1 OF 4)
184	PERMANENT PAVING MARKING AND SIGNAGE PLAN (SHEET 2 OF 4)
185	PERMANENT PAVING MARKING AND SIGNAGE PLAN (SHEET 3 OF 4)
186	PERMANENT PAVING MARKING AND SIGNAGE PLAN (SHEET 4 OF 4)
	STORM WATER POLLUTION PREVENTION PLAN DRAWINGS
187	SW3P LAYOUT
	TREE PROTECTION DRAWINGS
188	TREE PROTECTION PLAN (SHEET 1 OF 21)
189	TREE PROTECTION PLAN (SHEET 2 OF 21)
190	TREE PROTECTION PLAN (SHEET 3 OF 21)
191	TREE PROTECTION PLAN (SHEET 4 OF 21)
192	TREE PROTECTION PLAN (SHEET 5 OF 21)
193	TREE PROTECTION PLAN (SHEET 6 OF 21)
194	TREE PROTECTION PLAN (SHEET 7 OF 21)
195	TREE PROTECTION PLAN (SHEET 8 OF 21)
196	TREE PROTECTION PLAN (SHEET 9 OF 21)
197	TREE PROTECTION PLAN (SHEET 10 OF 21)
198	TREE PROTECTION PLAN (SHEET 11 OF 21)
199	TREE PROTECTION PLAN (SHEET 12 OF 21)
200	TREE PROTECTION PLAN (SHEET 13 OF 21)
201	TREE PROTECTION PLAN (SHEET 14 OF 21)
202	TREE PROTECTION PLAN (SHEET 15 OF 21)
203	TREE PROTECTION PLAN (SHEET 16 OF 21)
204	TREE PROTECTION PLAN (SHEET 17 OF 21)
205	TREE PROTECTION PLAN (SHEET 18 OF 21)
206	TREE PROTECTION PLAN (SHEET 19 OF 21)
207	TREE PROTECTION PLAN (SHEET 20 OF 21)
208	TREE PROTECTION PLAN (SHEET 21 OF 21)
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209	EXISTING STREET LIGHTING MONTROSE AREA
210	PROPOSED STREET LIGHTING PLAN (SHEET 1 OF 5)
211	PROPOSED STREET LIGHTING PLAN (SHEET 2 OF 5)
212	PROPOSED STREET LIGHTING PLAN (SHEET 3 OF 5)
213	PROPOSED STREET LIGHTING PLAN (SHEET 4 OF 5)
214	PROPOSED STREET LIGHTING PLAN (SHEET 5 OF 5)
	STANDARDS AND DETAILS DRAWINGS
215	PAVEMENT REPLACEMENT DETAILS
216	PAVEMENT MARKING DETAILS
217	STORM SEWER DETAILS (SHEET 1 OF 3)
218	STORM SEWER DETAILS (SHEET 2 OF 3)
219	STORM SEWER DETAILS (SHEET 3 OF 3)
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220	SANITARY SEWER DETAILS (SHEET 1 OF 2)
221	SANITARY SEWER DETAILS (SHEET 2 OF 2)
222	WATER SYSTEMS DETAILS
223	MISCELLANEOUS DETAILS (SHEET 1 OF 3)
224	MISCELLANEOUS DETAILS (SHEET 2 OF 3)
224A	MISCELLANEOUS DETAILS (SHEET 3 OF 3)
225	STORM WATER POLLUTION PREVENTION PLAN DETAILS
226	CONSTRUCTION SIGN STANDARD

No.	DATE	REVISIONS	APP.
1	3/11	REVISED SHEET IN ADDENDUM #1	M.A.W.

TO ARRANGE FOR LINES TO BE TURNED OFF OR MOVED, CALL CENTERPOINT ENERGY AT 713-207-2222.

NOTICE:
FOR YOUR SAFETY, YOU ARE REQUIRED BY TEXAS LAW TO CALL 811 AT LEAST 48 HOURS BEFORE YOU DIG SO THAT UNDERGROUND LINE CAN BE MARKED. THIS VERIFICATION DOES NOT FULFILL YOUR OBLIGATION TO CALL 811.

VERIFICATION OF PRIVATE UTILITY LINES

N/A Date:
CenterPoint Energy/Natural Gas Facilities Verification ONLY
(This signature verifies that you have shownCNP Natural Gas lines correctly – not to be used for conflict verification)(Gas service are not shown.)
Signature valid for six months.

N/A Date:
CenterPoint Energy/Underground Electric Facilities Verification ONLY
(This signature verifies existing underground facilities – not to be used for conflict verification.)
Signature valid for six months.

N/A Date:
Approved for AT&T Texas/SWBT underground conduit facilities only.
Signature valid for one year.

VanDeWiele & Vogler Incorporated
2925 Briarpark, Suite 275
Houston, Texas 77042-3778
713/782-0042
www.vandewiele-eng.com

STATE OF TEXAS — MICHAEL ANDREW MARTIN — 63282 — LICENSED PROFESSIONAL ENGINEER — 3/11/16

SURVEYED BY:
KUO & ASSOCIATES, INC.
C.O.H. FB No. P-5397

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

NEIGHBORHOOD STREET RECONSTRUCTION PROJECT No. 467

INDEX OF SHEETS

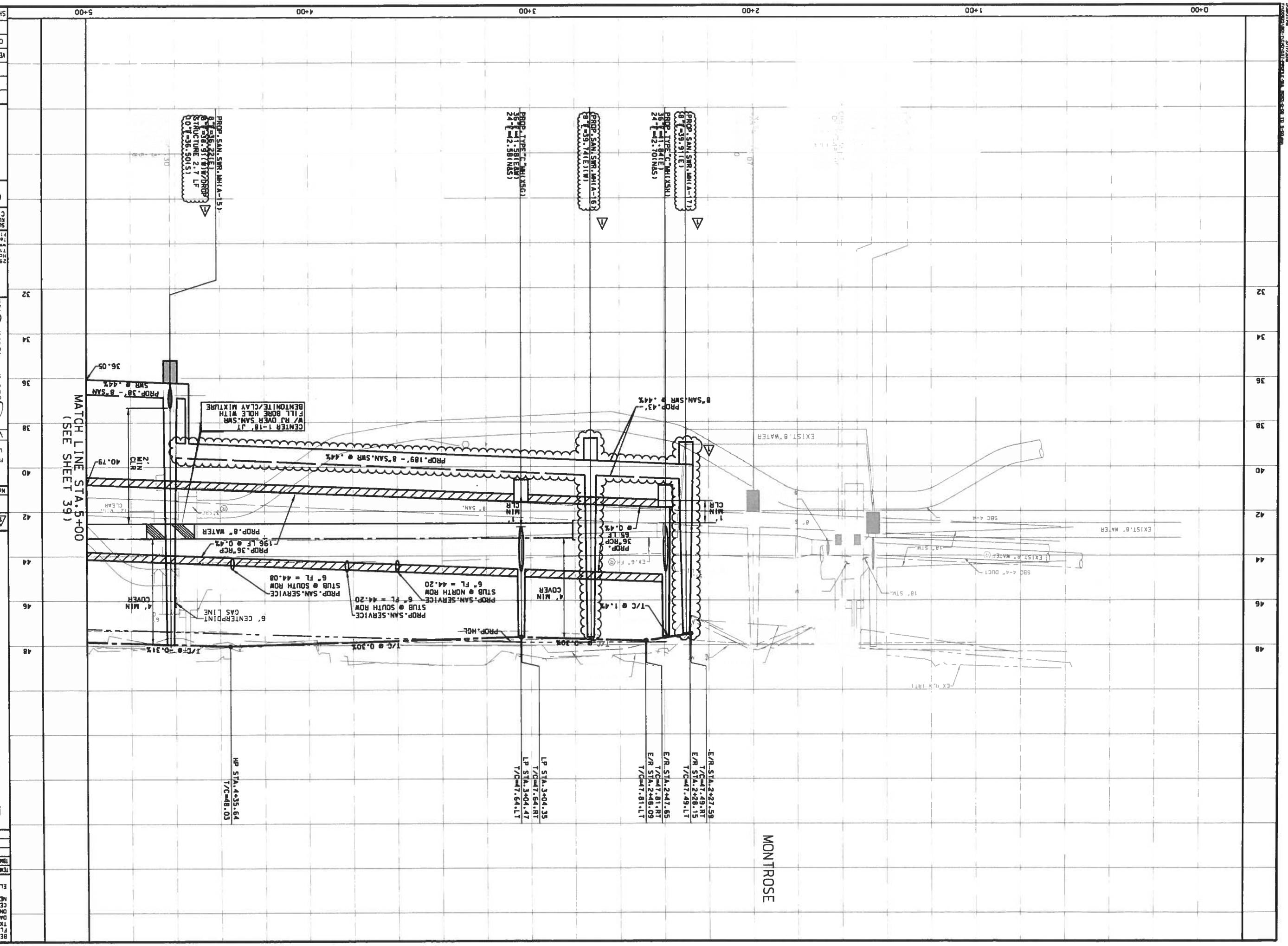
WBS NUMBER	N-000400-0001-4
DRAWING SCALE	N.T.S.
CITY OF HOUSTON PM	BEN BANSAL, P.E.
SHEET No.	2 OF 226

Cumulative Junction Discrepe Computations

Node No.	Type	Node Elev. (Ground)	Weighted Cv-Value	Cumulat. Dr.-Area	Cumulat. Tc (min)	Intens. (in/hr)	User Supply Q (cfs)	Additional Q in Node	Total Discr.
1.0	CCMP	N/A	0.90	21.83	5.64	7.750	0.000	0.00	0.000
2.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
3.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
4.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
5.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
6.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
7.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
8.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
9.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
10.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
11.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
12.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
13.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
14.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
15.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
16.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
17.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
18.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
19.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
20.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
21.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
22.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
23.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
24.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
25.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
26.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
27.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
28.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
29.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
30.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
31.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
32.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
33.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
34.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
35.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
36.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
37.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
38.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
39.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
40.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
41.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
42.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
43.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
44.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
45.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
46.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
47.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
48.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
49.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
50.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
51.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
52.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
53.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
54.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
55.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
56.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
57.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
58.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
59.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
60.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
61.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
62.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
63.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
64.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
65.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
66.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
67.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
68.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
69.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
70.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
71.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
72.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
73.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
74.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
75.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
76.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
77.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
78.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
79.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
80.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
81.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
82.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
83.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
84.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
85.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
86.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
87.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
88.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
89.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
90.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
91.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
92.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
93.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
94.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
95.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
96.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
97.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
98.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
99.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
100.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
101.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
102.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
103.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
104.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
105.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
106.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
107.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
108.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
109.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
110.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
111.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
112.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
113.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
114.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
115.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
116.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
117.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
118.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
119.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
120.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
121.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
122.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
123.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
124.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
125.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
126.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
127.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
128.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
129.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
130.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
131.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
132.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
133.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
134.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
135.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
136.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
137.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
138.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
139.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
140.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
141.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
142.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
143.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
144.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
145.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
146.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
147.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
148.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
149.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000
150.0	CCMP	N/A	0.85	28.75	5.77	7.750	0.000	0.00	0.000

Conveyance Configuration Data

Run #	Node US	Node I.D. DS	Flowline Elev. US	DS	Shape	Span (ft)	Rise (ft)	Length (ft)	Slope %	n-value
1.0	172	172MZ	42.10	42.00	CIR	1.0	0.00	19.0	0.526	0.013
2.0	173	172MZ	42.24	42.10	CIR	1.0	0.00	4.00	3.50	0.013
3.0	174	173MZ	42.41	42.24	CIR	1.0	0.00	4.00	4.25	0.013
4.0	175	174MZ	42.49	42.41	CIR	1.0	0.00	2.00	4.00	0.013
5.0	176	175MZ	42.55	42.49	CIR	1.0	0.00	2.00	3.00	0.013
6.0	177	176MZ	42.62	42.55	CIR	1.0	0.00	2.00	3.50	0.013
7.0	178	177MZ	42.69	42.62	CIR	1.0	0.00	2.00	3.50	0.013
8.0	179	178MZ	42.75	42.69	CIR	1.0	0.00	2.00	3.00	0.013
9.0	180	179MZ	42.81	42.75	CIR	1.0	0.00	2.00	3.00	0.013
10.0	181	180MZ	42.87	42.81	CIR	1.0	0.00	2.00	3.00	0.013
11.0	182	181MZ	42.93	42.87	CIR	1.0	0.00	2.00	3.00	0.013
12.0	183	182MZ	42.99	42.93	CIR	1.0	0.00	2.00	3.00	0.013
13.0	184	183MZ	43.05	42.99	CIR	1.0	0.00	2.00	3.00	0.013
14.0	185	184MZ	43.12	43.05	CIR	1.0	0.00	2.00	3.50	0.013
15.0	186	185MZ	43.19	43.12	CIR	1.0	0.00	2.00	3.50	0.013
16.0	187	186MZ	43.25	43.19	CIR	1.0	0.00	2.00	3.00	0.013
17.0	188	187MZ	43.31	43.25	CIR	1.0	0.00	2.00	3.00	0.013
18.0	189	188MZ	43.37	43.31	CIR	1.0	0.00	2.00	3.00	0.013
19.0	190	189MZ	43.43	43.37	CIR	1.0	0.00	2.00	3.00	0.013
20.0	191	190MZ	43.49	43.43	CIR	1.0	0.00	2.00	3.00	0.013
21.0	192	191MZ	43.55	43.49	CIR	1.0	0.00	2.00	3.00	0.013
22.0	193	192MZ	43.62	43.55	CIR	1.0	0.00	2.00	3.50	0.013
23.0	194	193MZ	43.69	43.62	CIR	1.0	0.00	2.00	3.50	0.013
24.0	195	194MZ	43.75	43.69	CIR	1.0	0.00	2.00	3.00	0.013
25.0	196	195MZ	43.81	43.75	CIR	1.0	0.00	2.00	3.00	0.013
26.0	197	196MZ	43.87	43.81	CIR	1.0	0.00	2.00	3.00	0.013
27.0	198	197MZ	43.93	43.87	CIR	1.0	0.00	2.00	3.00	0.013
28.0	199	198MZ	43.99	43.93	CIR	1.0	0.00	2.00	3.00	0.013
29.0	200	199MZ	44.05	43.99	CIR	1.0	0.00	2.00	3.00	0.013
30.0	201	200MZ	44.12	44.05	CIR	1.0	0.00	2.00	3.50	0.013
31.0	202	201MZ	44.19	44.12	CIR	1.0	0.00	2.00	3.50	0.013
32.0	203	202MZ	44.25	44.19	CIR	1.0	0.00	2.00	3.00	0.013
33.0	204	203MZ	44.31	44.25	CIR	1.0	0.00	2.00	3.00	0.013
34.0	205	204MZ	44.37	44.31	CIR	1.0	0.00	2.00	3.00	0.013
35.0	206	205MZ	44.43	44.37	CIR	1.0	0.00	2.00	3.00	0.013
36.0	207	206MZ	44.49	44.43	CIR	1.0	0.00	2.00	3.00	0.013
37.0	208	207MZ	44.55	44.49	CIR	1.0	0.00	2.00	3.00	0.013
38.0	209	208MZ	44.62	44.55	CIR	1.0	0.00	2.00	3.50	0.013
39.0	210	209MZ	44.69	44.62	CIR	1.0	0.00	2.00	3.50	0.013
40.0	211	210MZ	44.75	44.69	CIR	1.0	0.00	2.00	3.00	0.013
41.0	212	211MZ	44.81	44.75	CIR	1.0	0.00	2.00	3.00	0.013
42.0	213	212MZ	44.87	44.81	CIR	1.0	0.00	2.00	3.00	0.013
43.0	214	213MZ	44.93	44.87	CIR	1.0	0.00	2.00	3.00	0.013
44.0	215	214MZ	44.99	44.93	CIR	1.0	0.00	2.00	3.00	0.013
45.0	216	215MZ	45.05	44.99	CIR	1.0	0.00	2.00	3.00	0.013
46.0	217	216MZ	45.12	45.05	CIR	1.0	0.00	2.00	3.50	0.013
47.0	218	217MZ	45.19	45.12	CIR	1.0	0.00	2.00	3.50	0.013
48.0	219	218MZ	45.25	45.19	CIR	1.0	0.00	2.00	3.00	0.013
49.0	220	219MZ	45.31	45.25	CIR	1.0	0.00	2.00	3.00	0.013
50.0	221	220MZ	45.37	45.31	CIR	1.0	0.00	2.00	3.00	0.013
51.0	222	221MZ	45.43	45.37	CIR	1.0	0.00	2.00	3.00	0.013
52.0	223	222MZ	45.49	45.43	CIR	1.0	0.00	2.00	3.00	0.013
53.0	224	223MZ	45.55	45.49	CIR	1.0	0.00	2.00	3.00	0.013
54.0	225	224MZ	45.62	45.55	CIR	1.0	0.00	2.00	3.50	0.013
55.0	226	225MZ	45.69	45.62	CIR	1.0	0.00	2.00	3.50	0.013
56.0	227	226MZ	45.75	45.69	CIR	1.0	0.00	2.00	3.00	0.013
57.0	228	227MZ	45.81	45.75	CIR	1.0	0.00	2.00	3.00	0.013
58.0	229	228MZ	45.87	45.81	CIR	1.0	0.00	2.00	3.00	0.013
59.0	230	229MZ	45.93	45.87	CIR	1.0	0.00	2.00	3.00	0.013
60.0	231	230MZ	45.99	45.93	CIR	1.0	0.00	2.00	3.00	0.013
61.0	232	231MZ	46.05	45.99	CIR	1.0	0.00	2.00	3.00	0.013
62.0	233	232MZ	46.12	46.05	CIR	1.0	0.00	2.00	3.50	0.013
63.0	234	233MZ	46.19	46.12	CIR	1.0	0.00	2.00	3.50	0.013
64.0	235	234MZ	46.25	46.19	CIR	1.0	0.00	2.00	3.00	0.013
65.0	236	235MZ	46.31	46.25	CIR	1.0	0.00	2.00	3.00	0.013
66.0	237	236MZ	46.37	46.31	CIR	1.0	0.00	2.00	3.00	0.013
67.0	238	237MZ	46.43	46.37	CIR	1.0	0.00	2.00	3.00	0.013
68.0	239	238MZ	46.49	46.43	CIR	1.0	0.00	2.00	3.00	0.013
69.0	240	239MZ	46.55	46.49	CIR	1.0	0.00	2.00	3.00	0.013
70.0	241	240MZ	46.62	46.55	CIR	1.0	0.00	2.00	3.50	0.013
71.0	242	241MZ	46.69	46.62	CIR	1.0	0.00	2.00	3.50	0.013
72.0	243	242MZ	46.75	46.69	CIR	1.0	0.00	2.00	3.00	0.013
73.0	244	243MZ	46.81	46.75	CIR	1.0	0.00	2.00	3.00	0.013
74.0	245	244MZ	46.87	46.81	CIR	1.0	0.00	2.00	3.00	0.013
75.0	246	245MZ	46.93	46.87	CIR	1.0	0.00	2.00	3.00	0.013
76.0	247	246MZ	46.99	46.93	CIR	1.0	0.00	2.00	3.00	0.013
77.0	248	247MZ	47.05	46.99	CIR	1.0	0.00	2.00	3.00	0.013
78.0	249	248MZ	47.12	47.05	CIR	1.0	0.00	2.00	3.50	0.013
79.0	250	249MZ	47.19	47.12	CIR	1.0	0.00	2.00	3.50	0.013
80.0	251	250MZ	47.25	47.19	CIR	1.0	0.00	2.00	3.00	0.013
81.0	252	251MZ	47.31	47.25	CIR	1.0	0.00	2.00	3.00	0.013
82.0	253	252MZ	47.37	47.31	CIR	1.0	0.00	2.00	3.00	0.013
83.0	254	253MZ	47.43	47.37	CIR	1.0	0.00	2.00	3.00	0.013
84.0	255	254MZ	47.49	47.43	CIR	1.0	0.00	2.00	3.00	0.013
85.0	256	255MZ	47.55	47.49	CIR	1.0	0.00	2.00	3.00	0.013
86.0	257	256MZ	47.62	47.55	CIR	1.0	0.00	2.00	3.50	0.013
87.0	258	257MZ	47.69	47.62	CIR	1.0	0.00	2.00	3.50	0.013
88.0	259	258MZ	47.75	47.69	CIR	1.0	0.00	2.00	3.00	0.013
89.0	260	259MZ	47.81	47.75	CIR	1.0	0.00	2.00	3.00	0.013
90.0	261	260MZ	47.87	47.81	CIR	1.0	0.00	2.00	3.00	0.013
91.0	262	261MZ	47.93	47.87	CIR	1.0	0.00	2.00	3.00	0.013
92.0	263	262MZ	47.99	47.93	CIR	1.0	0.00	2.00	3.00	0.013
93.0	264	263MZ	48.05	47.99	CIR	1.0	0.00	2.00	3.00	0.013
94.0	265	264MZ	48.12	48.05	CIR	1.0	0.00	2.00	3.50	0.013
95.0	266	265MZ	48.19	48.12	CIR	1.0	0.00	2.00	3.50	0.013
96.0	267	266MZ	48.25	48.19	CIR	1.0	0.00	2.00	3.00	0.013
97.0	268	267MZ	48.31	48.25	CIR	1.0	0.00	2.00	3.00	0.013
98.0	269	268MZ	48.37	48.31	CIR	1.0	0.00	2.00	3.00	0.013
99.0	270	269MZ	48.43	48.37	CIR	1.0	0.00	2.00	3.00	0.013
100.0	271	270MZ	48.49	48.43	CIR	1.0	0.00	2.00	3.00	0.013
101.0	272	271MZ	48.55	48.49	CIR	1.0	0.00	2.00	3.00	0.013
102.0	273	272MZ	48.62	48.55	CIR	1.0	0.00	2.00	3.50	0.013
103.0	274	273MZ	48.69	48.62	CIR	1.0	0.00	2.00	3.50	0.013
104.0	275	274MZ	48.75	48.69	CIR	1.0	0.00	2.00	3.00	0.013
105.0	276	275MZ	48.81	48.75	CIR	1.0	0.00	2.00	3.00	0.013
106.0	277	276MZ	48.87	48.81	CIR	1.0	0.00	2.00	3.00	0.013
107.0	278	277MZ	48.93	48.87	CIR	1.0	0.00	2.00	3.00	0.013
108.0	279	278MZ	48.99	48.93	CIR



CITY OF HOUSTON

DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

NEIGHBORHOOD STREET RECONSTRUCTION PROJECT 467

PROFILE

SUL ROSS STREET

STA. 0+00 TO STA. 5+00

WBS NUMBER
N-000400-0001-4
DRAWING SCALE
VERT. 1"=2' HORIZ. 1"=20'
CITY OF HOUSTON PM
BEN BANSAL, P.E.
SHEET No. 37 OF 226

VanDeWiele & Vogler Incorporated
2925 Briarpark, Suite 275
Houston, Texas 77042-3778
713/782-0042
www.vandewiele-eng.com
(Texas Professional Engineering Firm Registration No. F148)

STATE OF TEXAS
MICHAEL ANDREW WATTS
63282
LICENSED
PROFESSIONAL ENGINEER

SURVEYED BY:
KUO & ASSOCIATES, INC.
C.O.H. FB NO. P-5397

NOTES:

1. AT&T TEXAS/SWBT MANHOLES TO BE ADJUSTED TO NEW GRADE BY AT&T. CONTRACTOR TO COORDINATE.
2. LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE. CONTRACTOR TO CONFIRM LOCATIONS IN THE FIELD. CONTRACTOR TO RECONNECT ALL EXISTING SERVICES TO PROPOSED SANITARY SEWER AND WATER LINES.
3. EXISTING PVC YARD DRAINAGE AND SPRINKLERS TO BE REMOVED AND REPLACED.
4. ROADWAY INTERSECTION RADII SHALL BE 20' UNLESS OTHERWISE NOTED ON THE PLAN. DRIVEWAY RADII 5' UNLESS OTHERWISE NOTED ON THE TYPICAL DETAIL PLAN.
5. EXISTING SIGNS EXCEPT STOP SIGNS TO BE REMOVED, SALVAGED AND REPLACED.

VERIFICATION OF PRIVATE UTILITY LINES

NOTICE:
FOR YOUR SAFETY, YOU ARE REQUIRED BY TEXAS LAW TO CALL 811 AT LEAST 48 HOURS BEFORE YOU DIG SO THAT UNDERGROUND LINE CAN BE MARKED. THIS VERIFICATION DOES NOT FULFILL YOUR OBLIGATION TO CALL 811.

TO ARRANGE FOR LINES TO BE TURNED OFF OR MOVED, CALL CENTERPOINT ENERGY AT 713-207-2222.

Centerpoint Energy/Natural Gas Facilities Verification ONLY
(This signature verifies that you have shown/NP Natural Gas lines correctly - not to be used for conflict verification)(Gas service
Signature valid for six months.
Date: 12-1-15

Centerpoint Energy/Underground Electric Facilities Verification ONLY
(This signature verifies existing underground facilities - not to be used for conflict verification.)
Signature valid for six months.
Date: 12-1-15

Approved for AT&T Texas/SWBT underground conduit facilities only.
Signature valid for one year.
Date: 12-1-15

No.	DATE	REVISIONS	APP.
1	3/11	ADDENDUM #1 SAN.SWR. REVISED	M.A.W.

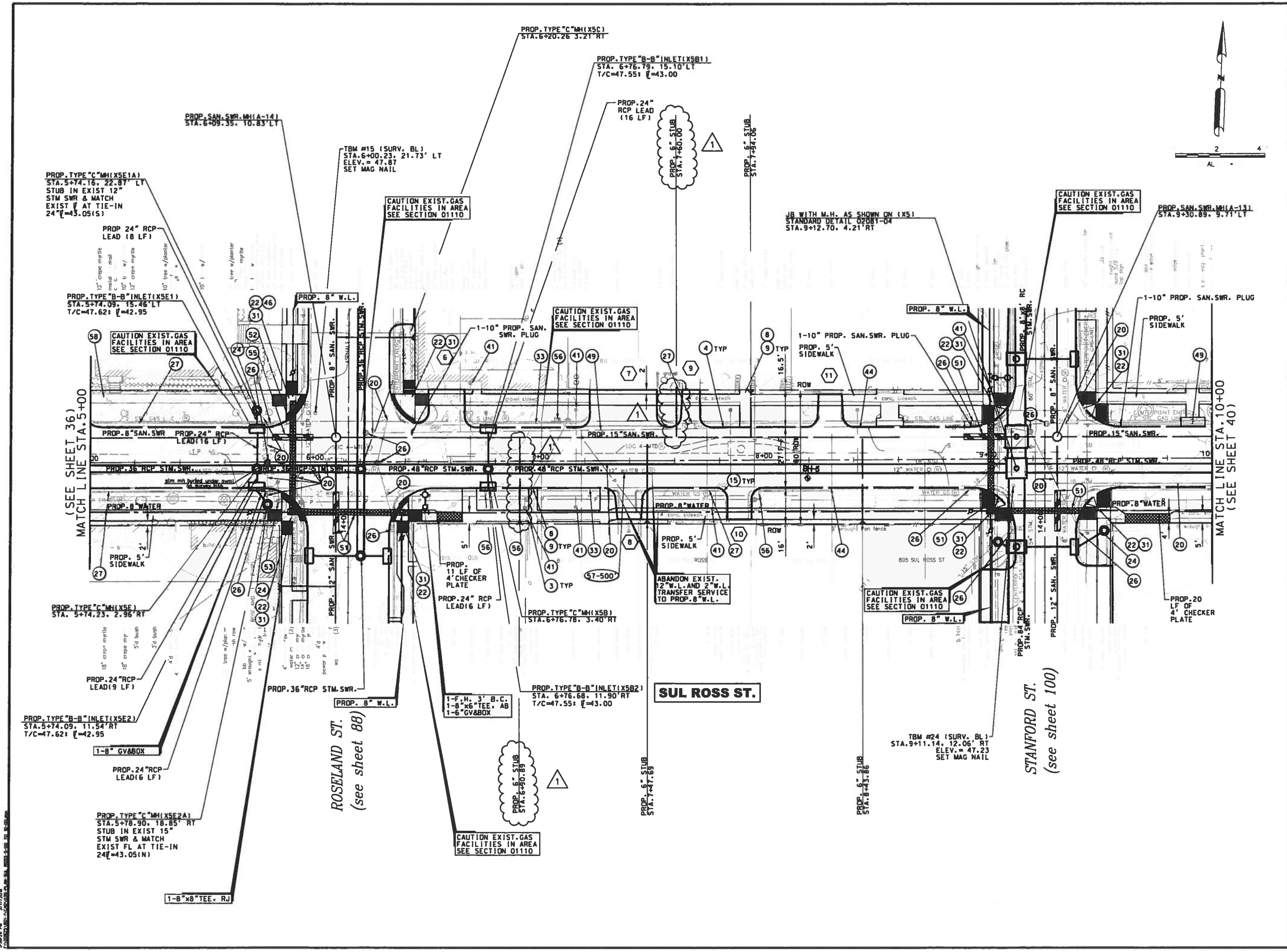
TBM #	STA / OFF	DESC	ELEV

TEMPORARY BENCHMARKS:

ELEV.=39.93 FEET NAVD 1988. 2001 ADJUSTED

BENCHMARK:
FLOODPLAIN REFERENCE MARK NUMBER 05002J IS A TXDOT DISK ON BRIDGE AT HEIGHTS BLVD AND WHITE OAK BAYOU LOCATED ON UPSTREAM. CONCRETE WALK. ON SW CORNER OF 5-BOUND BRIDGE. S. OF STREAM CENTER IN REVAMP 493E IN THE WHITE OAK WATERSHED NEAR STREAM E100-00-00

P-1576



BENCHMARK:
FLOODPLAIN REFERENCE MARK NUMBER 050025 IS A TXDOT DISK ON BRIDGE AT HEIGHTS BLVD AND WHITE OAK BAYOU LOCATED ON UPSTREAM. CONCRETE WALK. ON SW CORNER OF S-BOUND BRIDGE. S. OF STREAM CENTER IN KEYMAP 493E IN THE WHITE OAK WATERSHED NEAR STREAM E100-00-00

ELEV.=39.93 FEET NAVD 1988. 2001 ADJUSTED

TEMPORARY BENCHMARKS:

TBM #	STA / OFF	DESC	ELEV

NOTES:

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J. Covarrubias Date: 12-1-15
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2925 Briarpark, Suite 275
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713/782-0042
www.vandewiele-eng.com
Texas Professional Engineering Firm Registration No. F148

STATE OF TEXAS
MICHAEL ANDREW MARTIN
63282
PROFESSIONAL ENGINEER

SURVEYED BY:
KUO & ASSOCIATES, INC.
C.O.H. FB No. P-5397

CITY OF HOUSTON

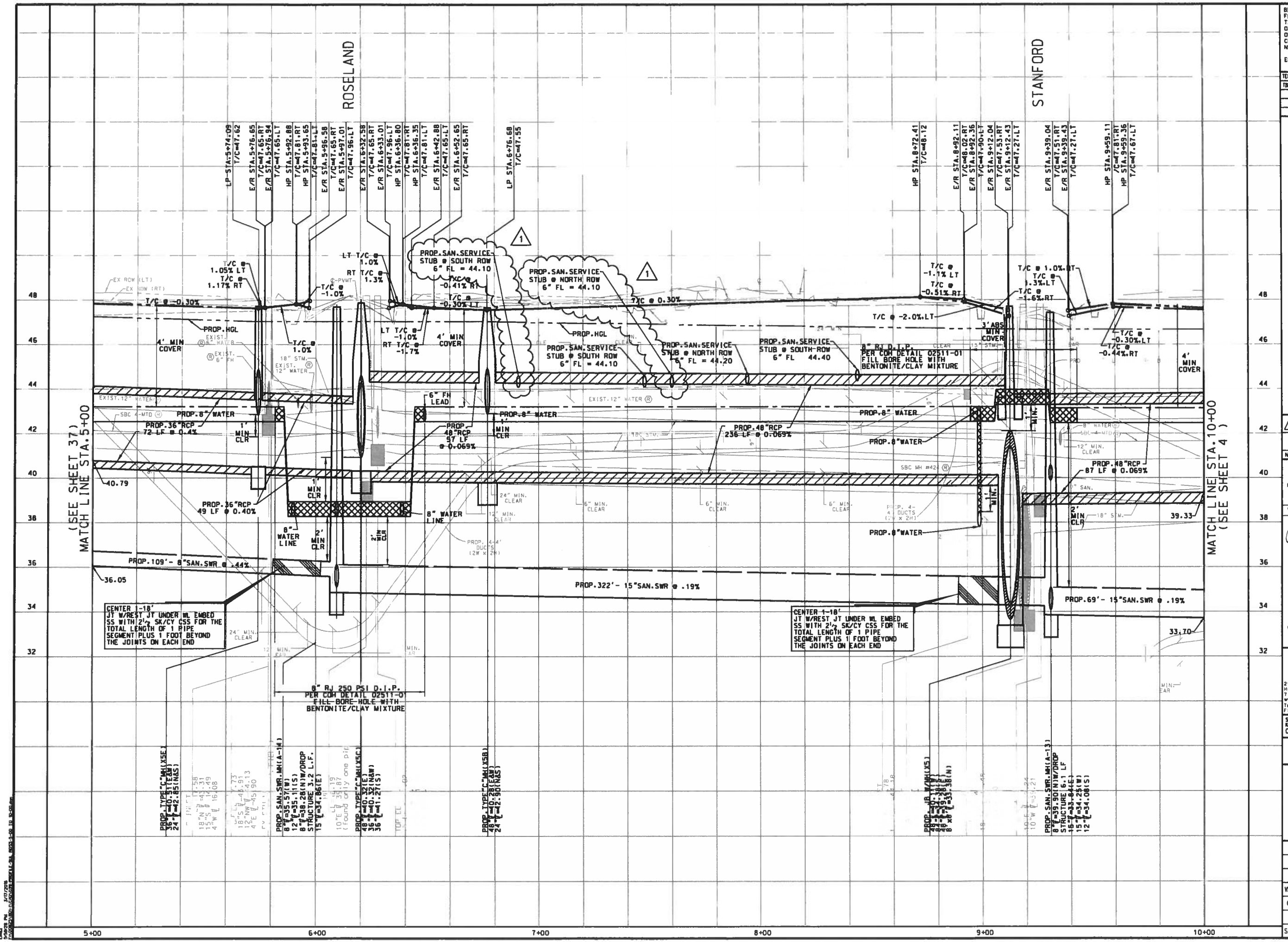
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

NEIGHBORHOOD STREET RECONSTRUCTION PROJECT 467

PLAN
SUL ROSS STREET
STA. 5+00 TO STA. 10+00

WBS NUMBER	
N-000400-0001-4	
DRAWING SCALE	
VERT. 1"=2' HORIZ. 1"=20'	
CITY OF HOUSTON PM	
BEN BANSAL, P.E.	
SHEET No. 38 OF 226	

P-1576



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ELEV.=39.93 FEET NAVD 1988. 2001 ADJUSTED

TEMPORARY BENCHMARKS:

TBM #	STA / OFF	DESC	ELEV

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SUL ROSS STREET
STA. 5+00 TO STA. 10+00

WBS NUMBER	N-000400-0001-4
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CITY OF HOUSTON PM	BEN BANSAL, P.E.
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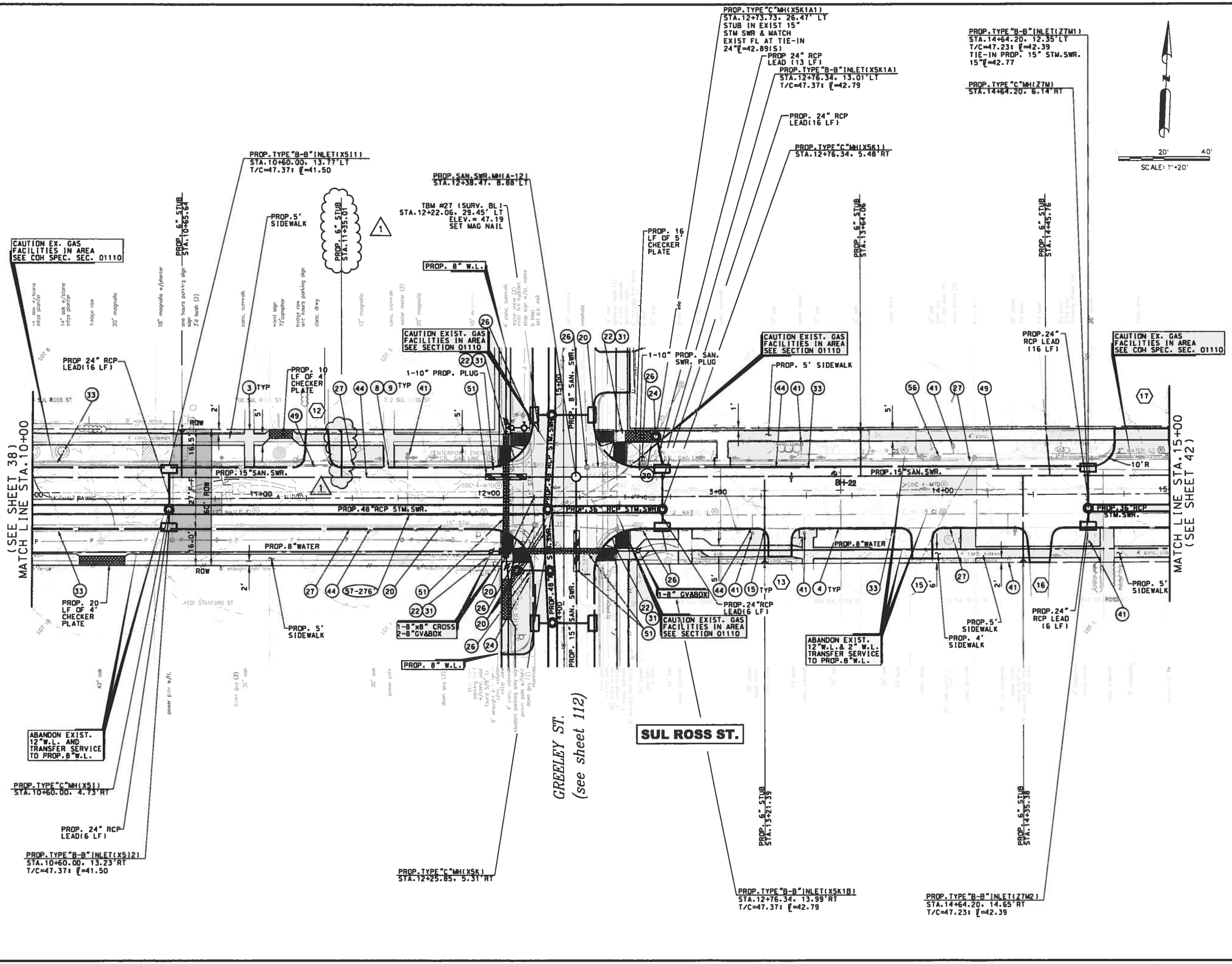

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PLAN
SUL ROSS STREET
STA. 10+00 TO STA. 15+00

WBS NUMBER	
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DRAWING SCALE	
VERT. 1"=2' HORIZ. 1"=20'	
CITY OF HOUSTON PM	
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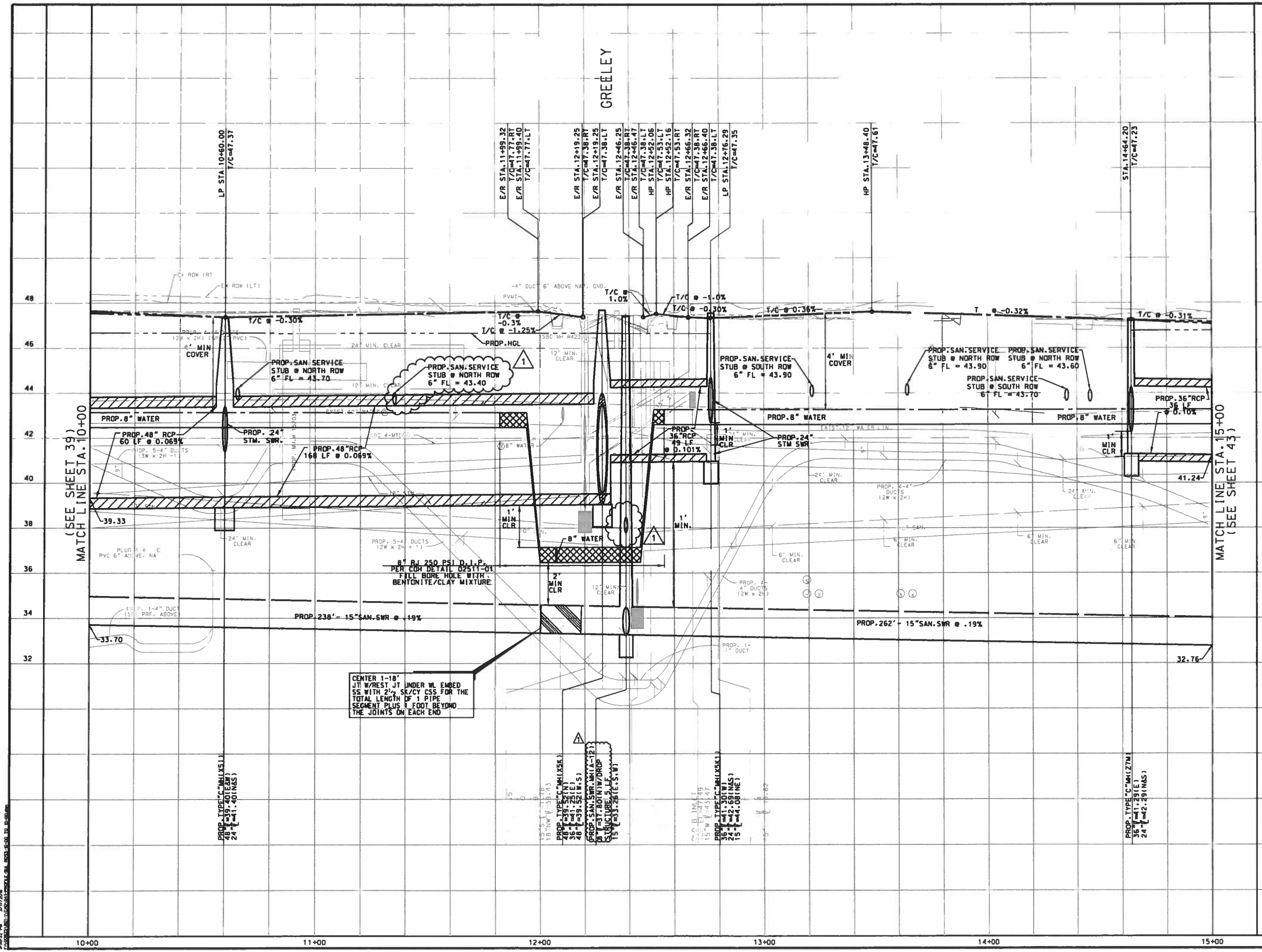

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NEIGHBORHOOD STREET RECONSTRUCTION PROJECT 467

PROFILE
SUL ROSS STREET
STA. 10+00 TO STA. 15+00

WBS NUMBER	N-000400-0001-4
DRAWING SCALE	VERT. 1"=2' HORIZ. 1"=20'
CITY OF HOUSTON PM	BEN BANSAL, P.E.
SHEET No. 41 OF 226	

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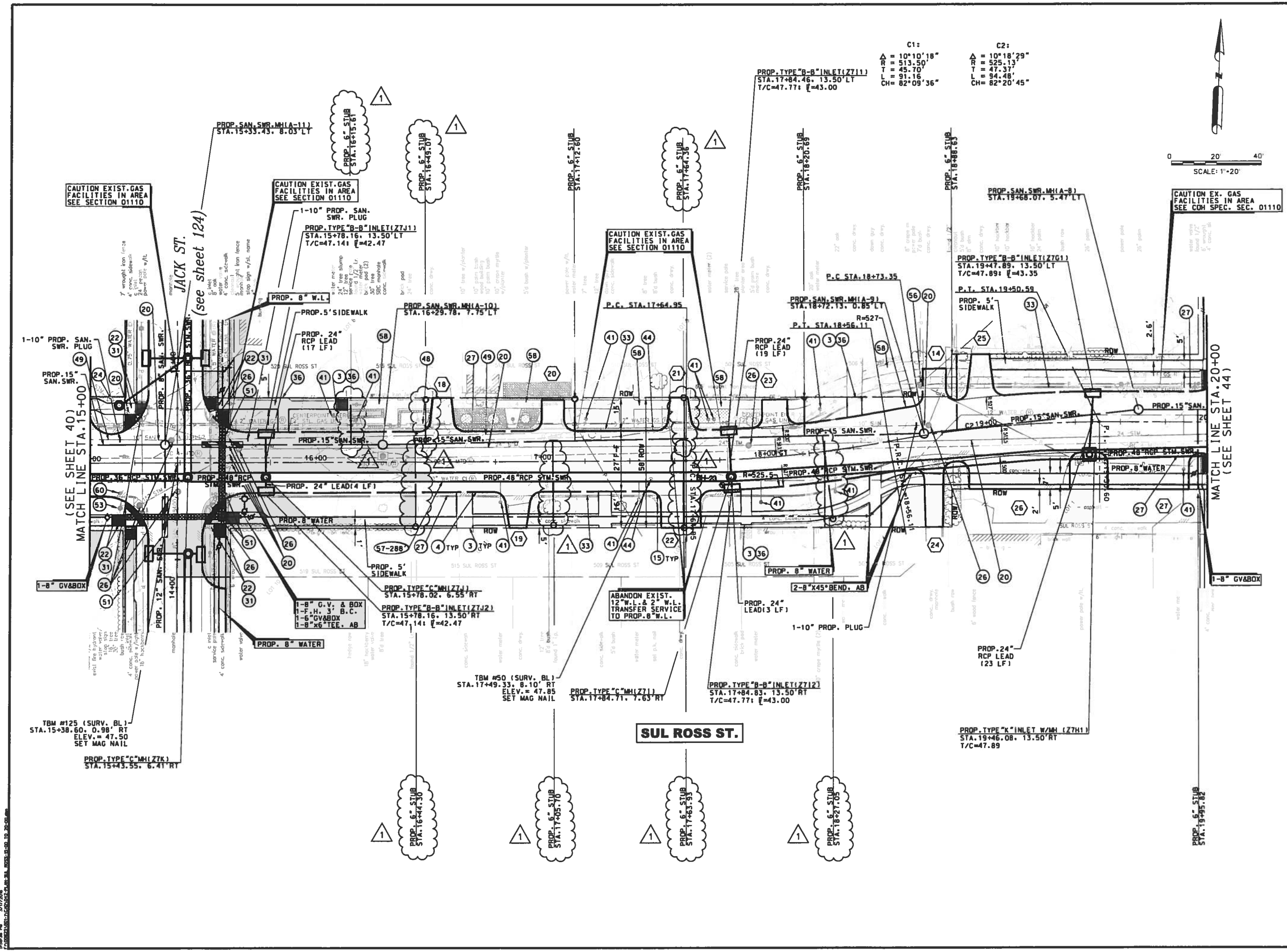

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STATE OF TEXAS
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5/11/16

SURVEYED BY:
KUD & ASSOCIATES, INC.
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CITY OF HOUSTON
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NEIGHBORHOOD STREET RECONSTRUCTION PROJECT 467
PLAN
SUL ROSS STREET
STA. 15+00 TO STA. 20+00

WBS NUMBER	
N-000400-0001-4	
DRAWING SCALE	
VERT. 1"=2' HORIZ. 1"=20'	
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BEN BANSAL, P.E.	
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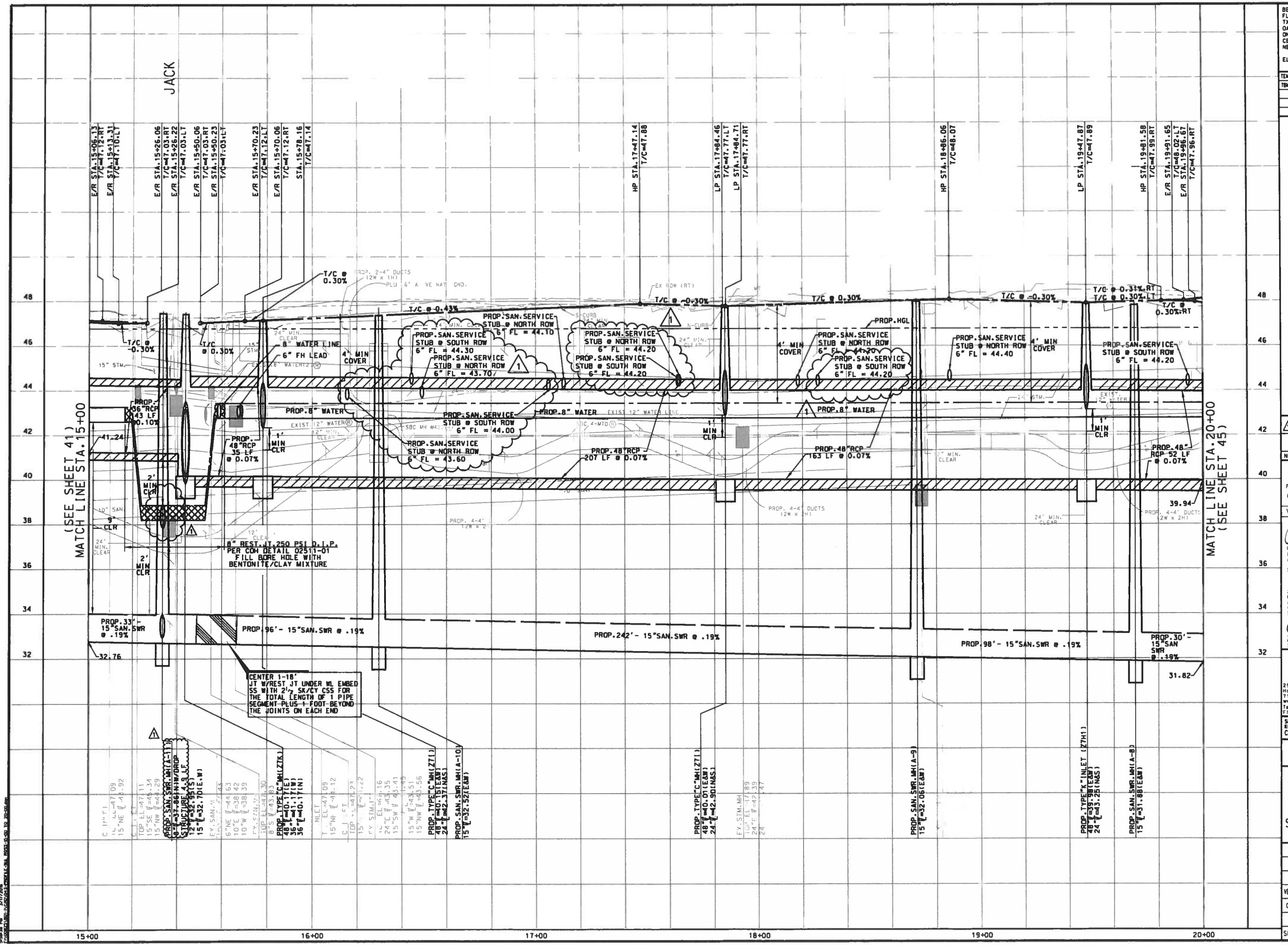

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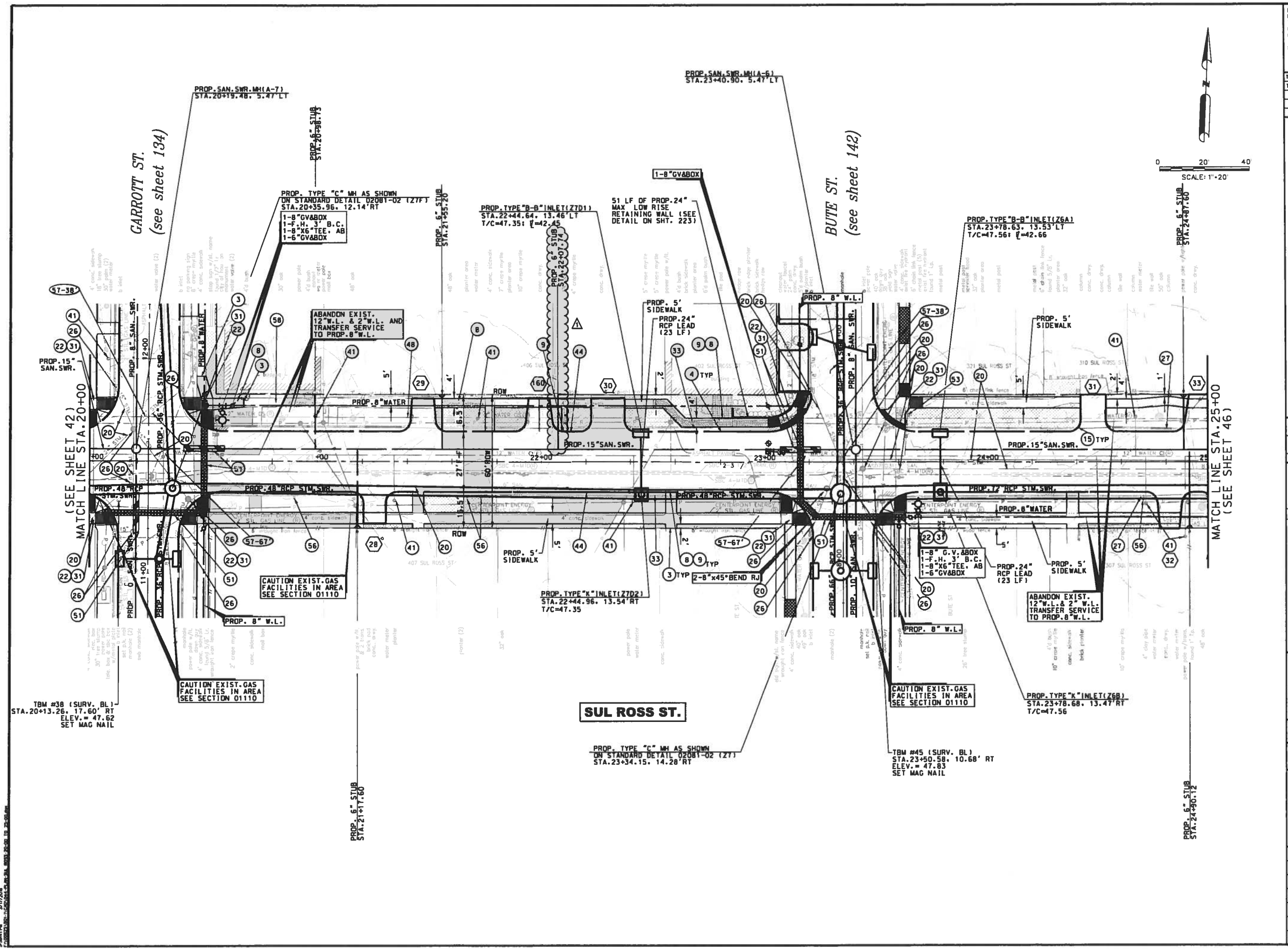

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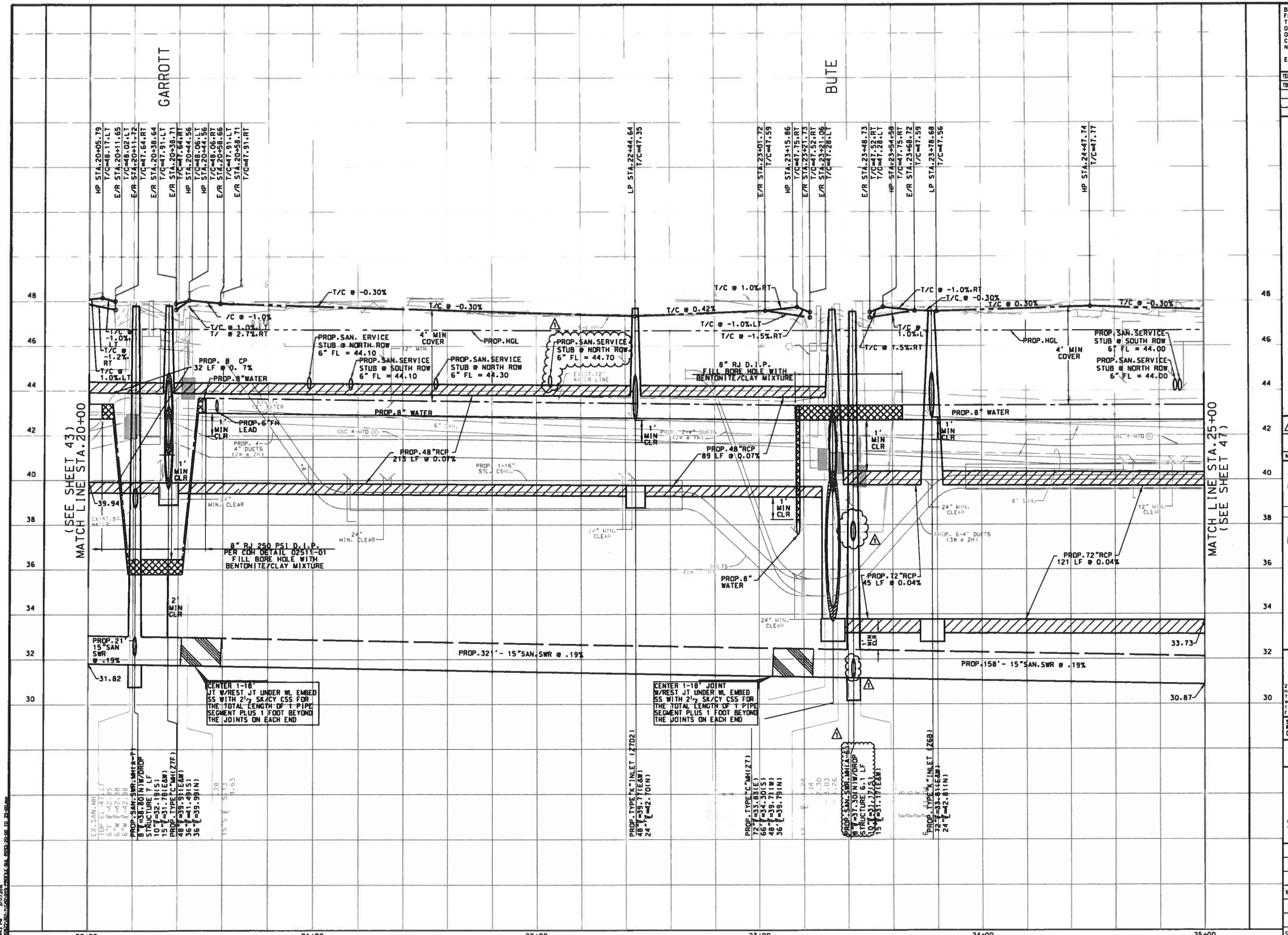

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SURVEYED BY:
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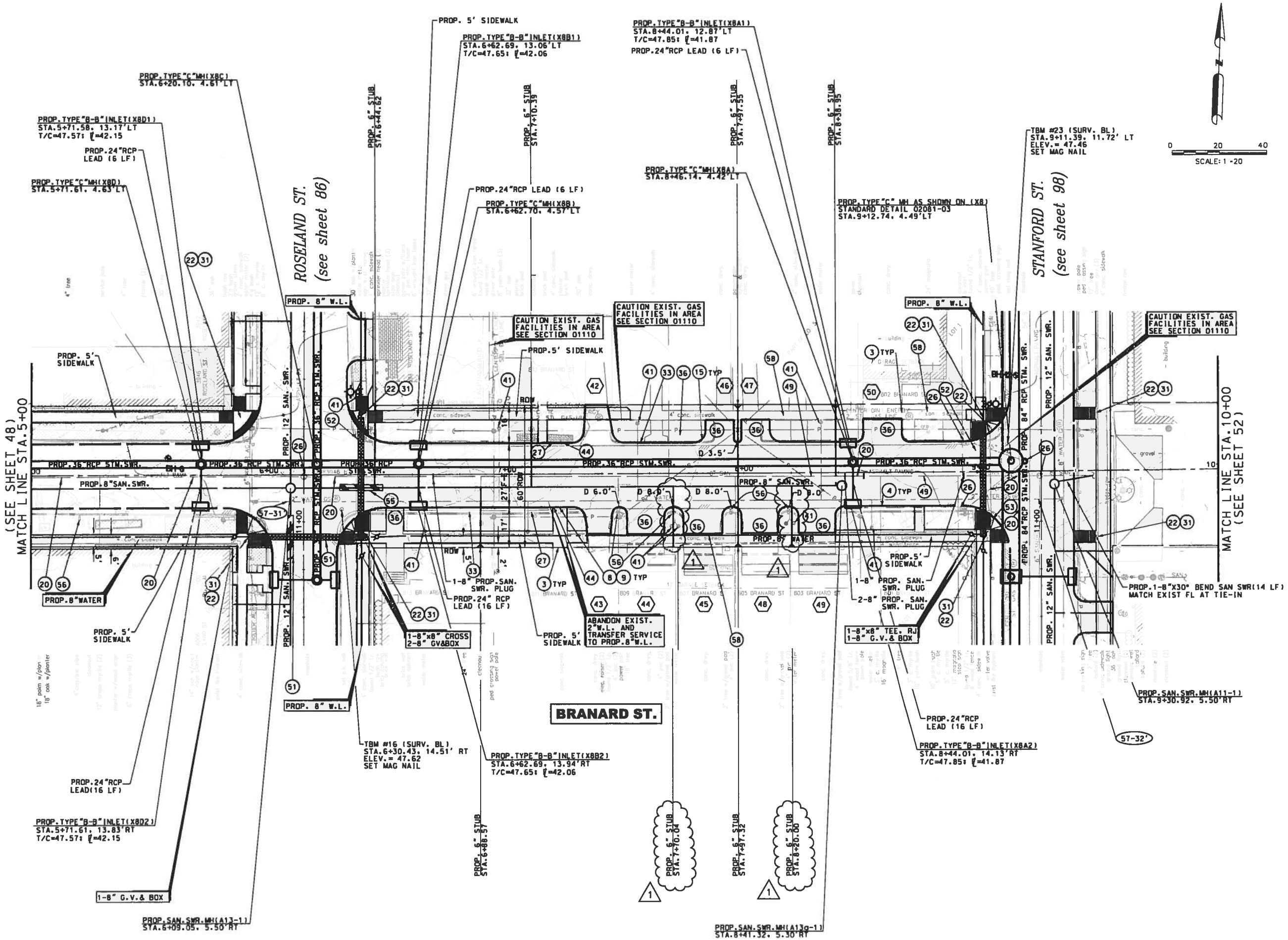
C.O.H. FB No. P-5397

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

NEIGHBORHOOD STREET RECONSTRUCTION PROJECT 467
PROFILE
SUL ROSS STREET
STA. 20+00 TO STA. 25+00

WBS NUMBER	N-000400-0001-4
DRAWING SCALE	VERT. 1"=2' HORIZ. 1"=20'
CITY OF HOUSTON PM	BEN BANSAL, P.E.
SHEET No. 45 OF 226	

P-1576



BENCHMARK:
FLOODPLAIN REFERENCE MARK NUMBER 050025 IS A TXDOT DISK ON BRIDGE AT HEIGHTS BLVD AND WHITE OAK BAYOU LOCATED ON UPSTREAM. CONCRETE WALK. ON SW CORNER OF S-BOUND BRIDGE. S. OF STREAM CENTER IN KEYMAP 493E IN THE WHITE OAK WATERSHED NEAR STREAM E100-00-00

ELEV.=39.93 FEET NAVD 1988. 2001 ADJUSTED

TEMPORARY BENCHMARKS:

TBM #	STA / OFF	DESC	ELEV

NOTES:

1. AT&T TEXAS/SWBT MANHOLES TO BE ADJUSTED TO NEW GRADE BY AT&T. CONTRACTOR TO COORDINATE.
2. LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE. CONTRACTOR TO CONFIRM LOCATIONS IN THE FIELD. CONTRACTOR TO RECONNECT ALL EXISTING SERVICES TO PROPOSED SANITARY SEWER AND WATER LINES.
3. EXISTING PVC YARD DRAINAGE AND SPRINKLERS TO BE REMOVED AND REPLACED.
4. ROADWAY INTERSECTION RADII SHALL BE 20' UNLESS OTHERWISE NOTED ON THE PLAN. DRIVEWAY RADII 5' UNLESS OTHERWISE NOTED ON THE TYPICAL DETAIL PLAN.
5. EXISTING SIGNS EXCEPT STOP SIGNS TO BE REMOVED. SALVAGED AND REPLACED.

No.	DATE	REVISIONS	APP.
1	3/11	ADDENDUM #1 SERVICE STUBS REVISED	M.A.M.

TO ARRANGE FOR LINES TO BE TURNED OFF OR MOVED, CALL CENTERPOINT ENERGY AT 713-207-2222

NOTICE:
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VERIFICAT OF PRIVATE UTILITIES

12-1-15
CenterPoint Energy/Natural Gas Facilities Verification ONLY
(This signature verifies that you have shownCNP Natural Gas lines correctly – not to be used for conflict verification)(Gas service
Signature valid for six months.

Date: 12-1-15
CenterPoint Energy/Underground Electric Facilities Verification ONLY
(This signature verifies existing underground facilites – not to be used for conflict verification.)
Signature valid for six months.

Date: 12-1-15
Approved for AT&T Texas/SWBT underground conduit facilities only. Signature valid for one year.

VanDeWiele & Vogler Incorporated
2925 Briarpark, Suite 275
Houston, Texas 77042-3778
713/782-0042
www.vandewiele-eng.com
Texas Professional Engineering Firm Registration No. F148

STATE OF TEXAS
MICHAEL ANDREW MARTIN
63282
LICENSED PROFESSIONAL ENGINEER
3/11/16

SURVEYED BY:
KUO & ASSOCIATES, INC.
C.O.H. FB No. P-5397

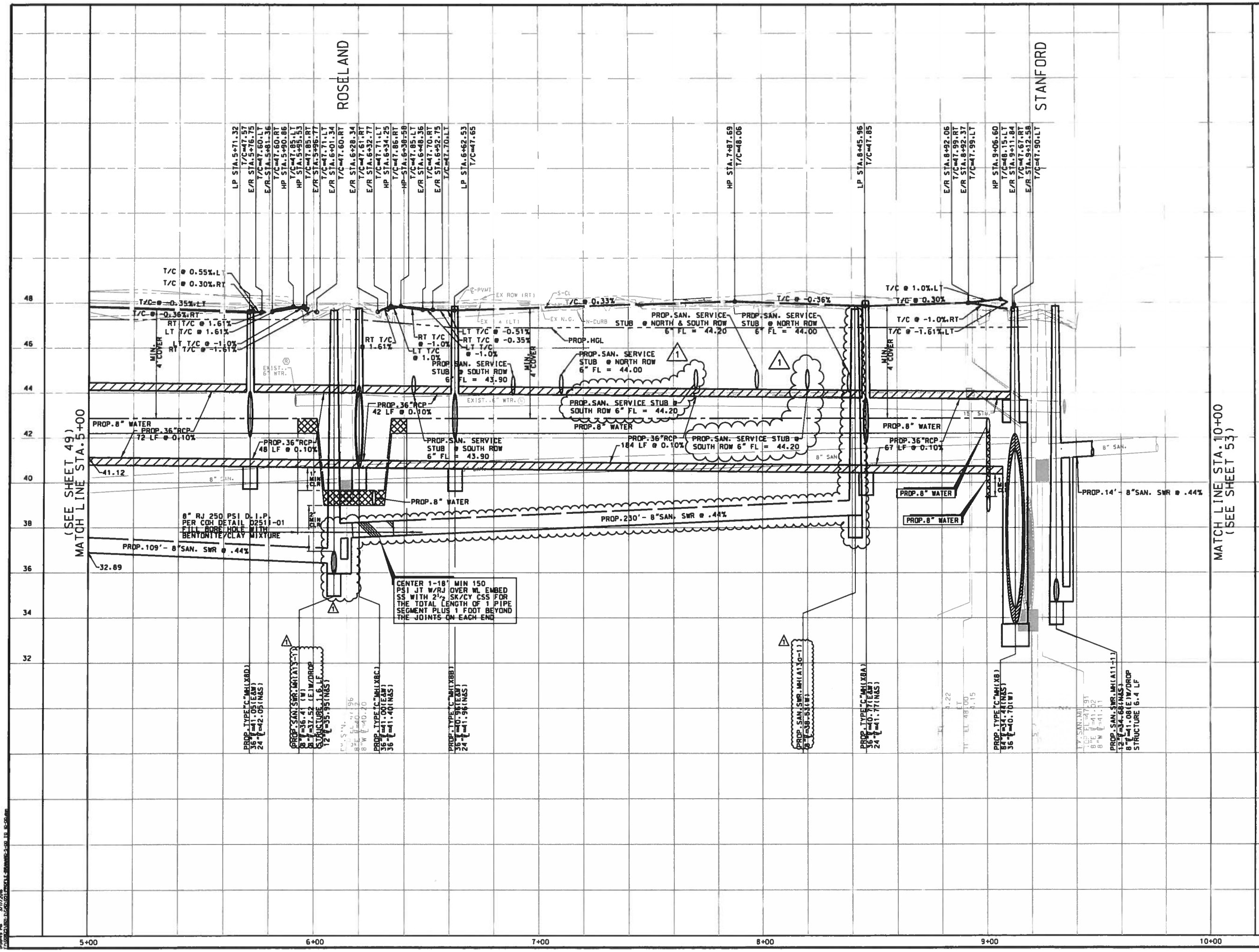
CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

NEIGHBORHOOD STREET
RECONSTRUCTION PROJECT 467

PLAN
BRANARD STREET
STA. 5+00 TO STA. 10+00

WBS NUMBER
N-000400-0001-4
DRAWING SCALE
VERT. 1"=2' HORIZ. 1"=20'
CITY OF HOUSTON PM
BEN BANSAL, P.E.
SHEET No. 50 OF 226

P-1576



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ELEV.=39.93 FEET NAVD 1988. 2001 ADJUSTED

TEMPORARY BENCHMARKS:

TBM #	STA / OFF	DESC	ELEV

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No.	DATE	REVISIONS	APP.
1	3/11	ADDENDUM #1 SAN.SWR. & SERVICE STUB REVISED	M.A.M.

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VERIFICATION OF PRIVATE UTILITY LINES

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STATE OF TEXAS
MICHAEL ANDREW MARTIN
63282
LICENSED PROFESSIONAL ENGINEER
3/4/16

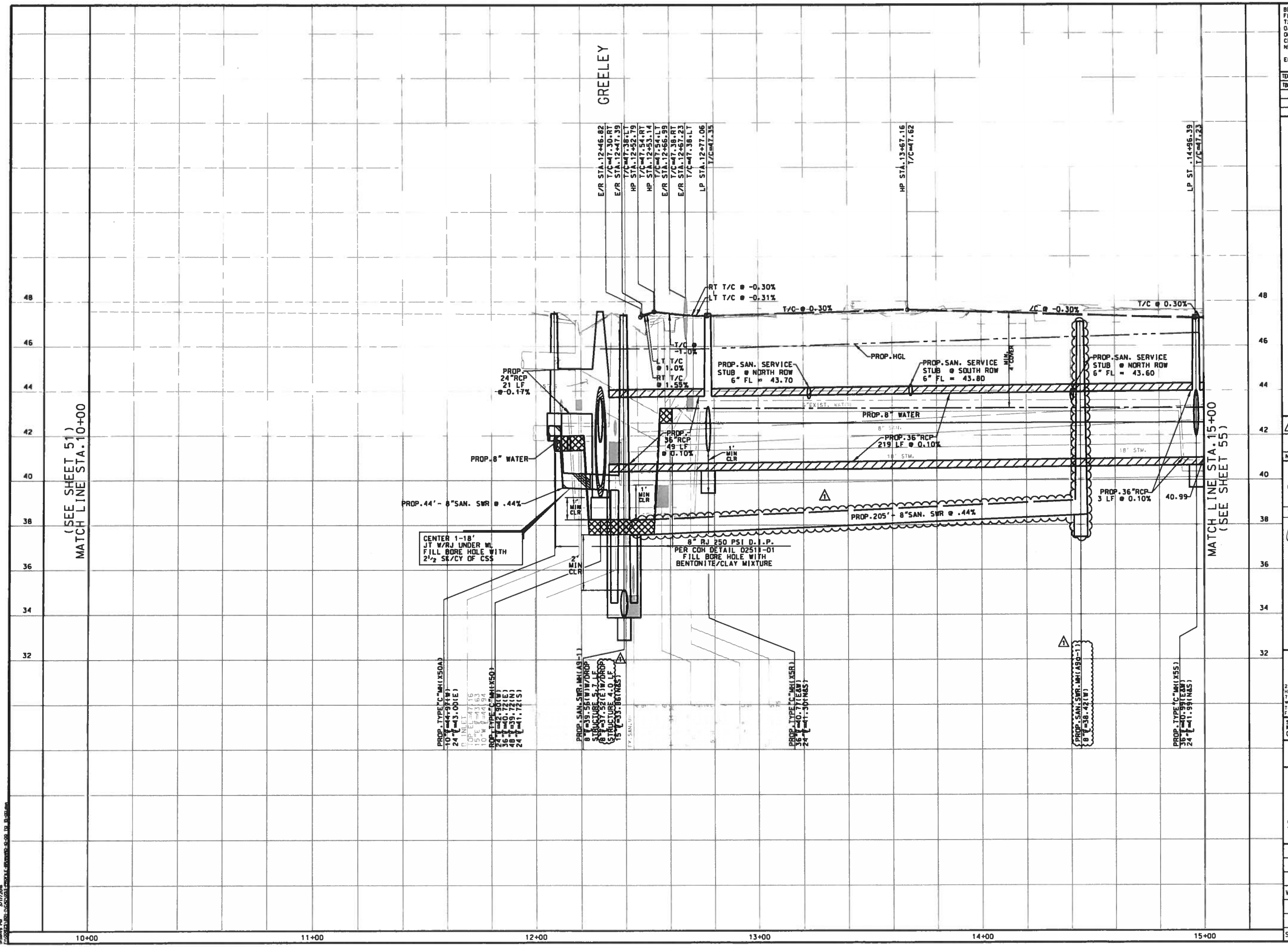
CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

NEIGHBORHOOD STREET RECONSTRUCTION PROJECT 467

PROFILE
BRANARD STREET
STA. 5+00 TO STA. 10+00

WBS NUMBER
N-000400-0001-4
DRAWING SCALE
VERT. 1"=2' HORIZ. 1"=20'
CITY OF HOUSTON PM
BEN BANSAL, P.E.
SHEET No. 51 OF 226

P-1576



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ELEV.=39.93 FEET NAVD 1988. 2001 ADJUSTED

TEMPORARY BENCHMARKS:

TBM #	STA / OFF	DESC	ELEV

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Texas Professional Engineering Firm Registration No. F148

SURVEYED BY:
KUO & ASSOCIATES, INC.
C.O.H. FB No. P-5397

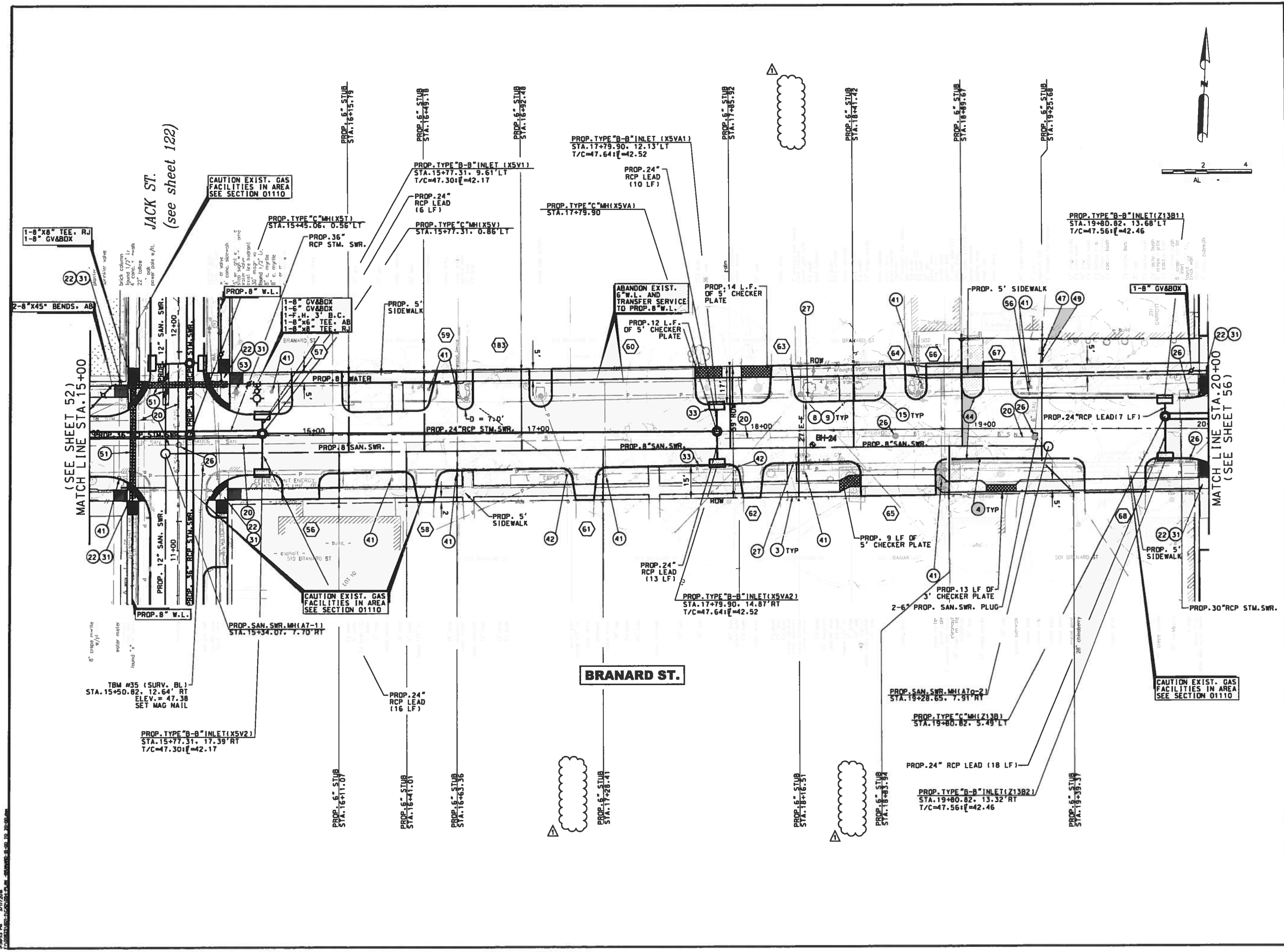
STATE OF TEXAS
MICHAEL ANDREW MARTIN
63282
LICENSED PROFESSIONAL ENGINEER

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

NEIGHBORHOOD STREET RECONSTRUCTION PROJECT 467
PROFILE
BRANARD STREET
STA. 10+00 TO STA. 15+00

WBS NUMBER	
N-000400-0001-4	
DRAWING SCALE	
VERT. 1"=2' HORIZ. 1"=20'	
CITY OF HOUSTON PM	
BEN BANSAL, P.E.	
SHEET No. 53 OF 226	

P-1576



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ELEV.=39.93 FEET NAVD 1988. 2001 ADJUSTED

TEMPORARY BENCHMARKS:

TBM #	STA / OFF	DESC	ELEV

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No.	DATE	REVISIONS	APP.
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J Coccaro Date: 12-1-15
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VanDeWiele & Vogler Incorporated
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Texas Professional Engineering Firm Registration No. F148

SURVEYED BY:
RUD & ASSOCIATES, INC.
C.O.H. FB No. P-5397

STATE OF TEXAS — MICHAEL ANDREW MARTIN — 63282 — LICENSED PROFESSIONAL ENGINEER — 3/11/16

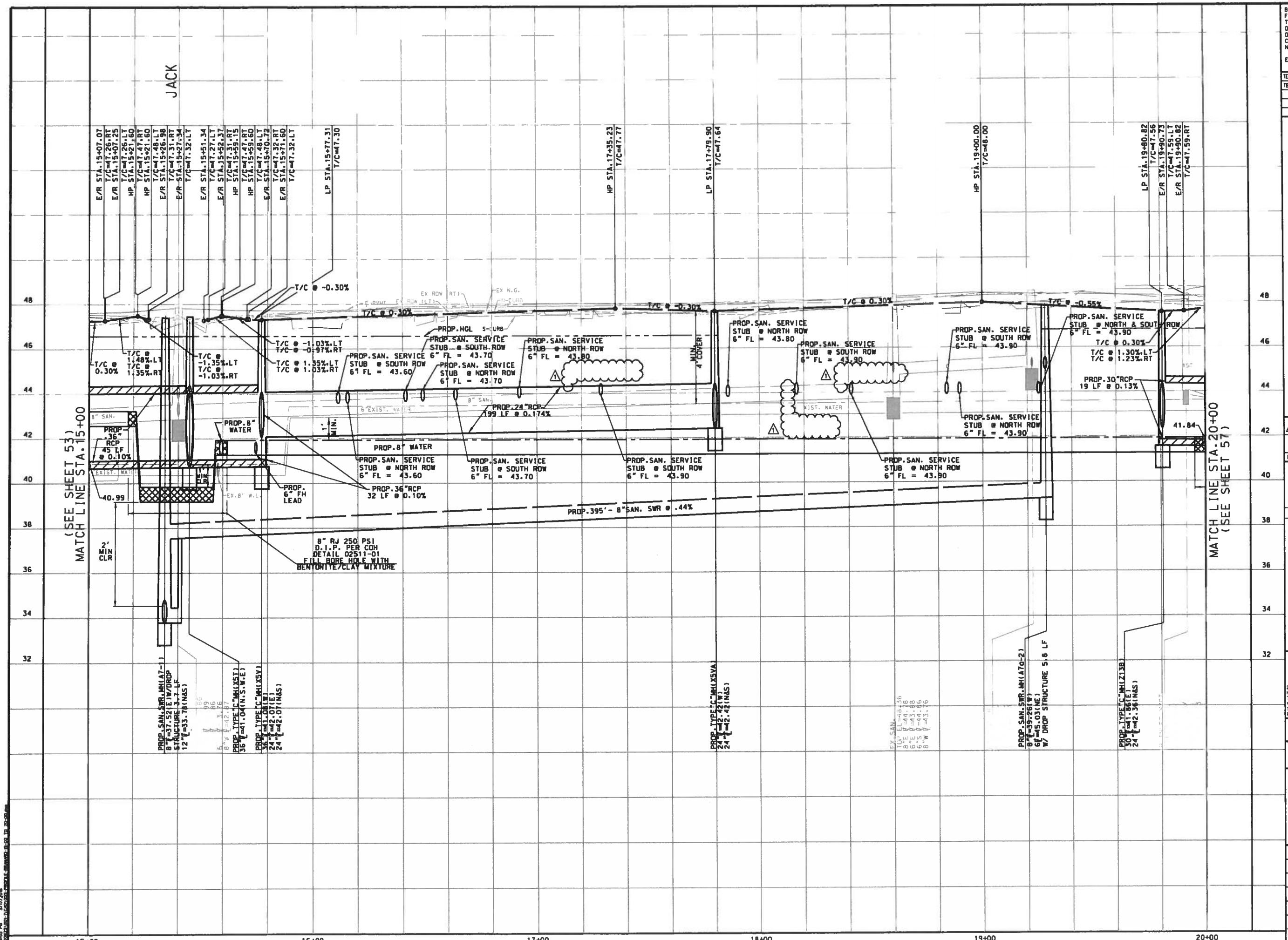
CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

NEIGHBORHOOD STREET RECONSTRUCTION PROJECT 467

PLAN
BRANARD STREET
STA. 15+00 TO STA. 20+00

WBS NUMBER	
N-000400-0001-4	
DRAWING SCALE	
VERT. 1"=2' HORIZ. 1"=20'	
CITY OF HOUSTON PM	
BEN BANSAL, P.E.	
SHEET No. 54 OF 226	

P-1576



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ELEV.=39.93 FEET NAVD 1988, 2001 ADJUSTED

TEMPORARY BENCHMARKS:

TBM #	STA / OFF	DESC	ELEV

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J Coleman Date: 12-1-15
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STATE OF TEXAS
MICHAEL ANDREW MARTIN
63282
LICENSED PROFESSIONAL ENGINEER
3/11/11

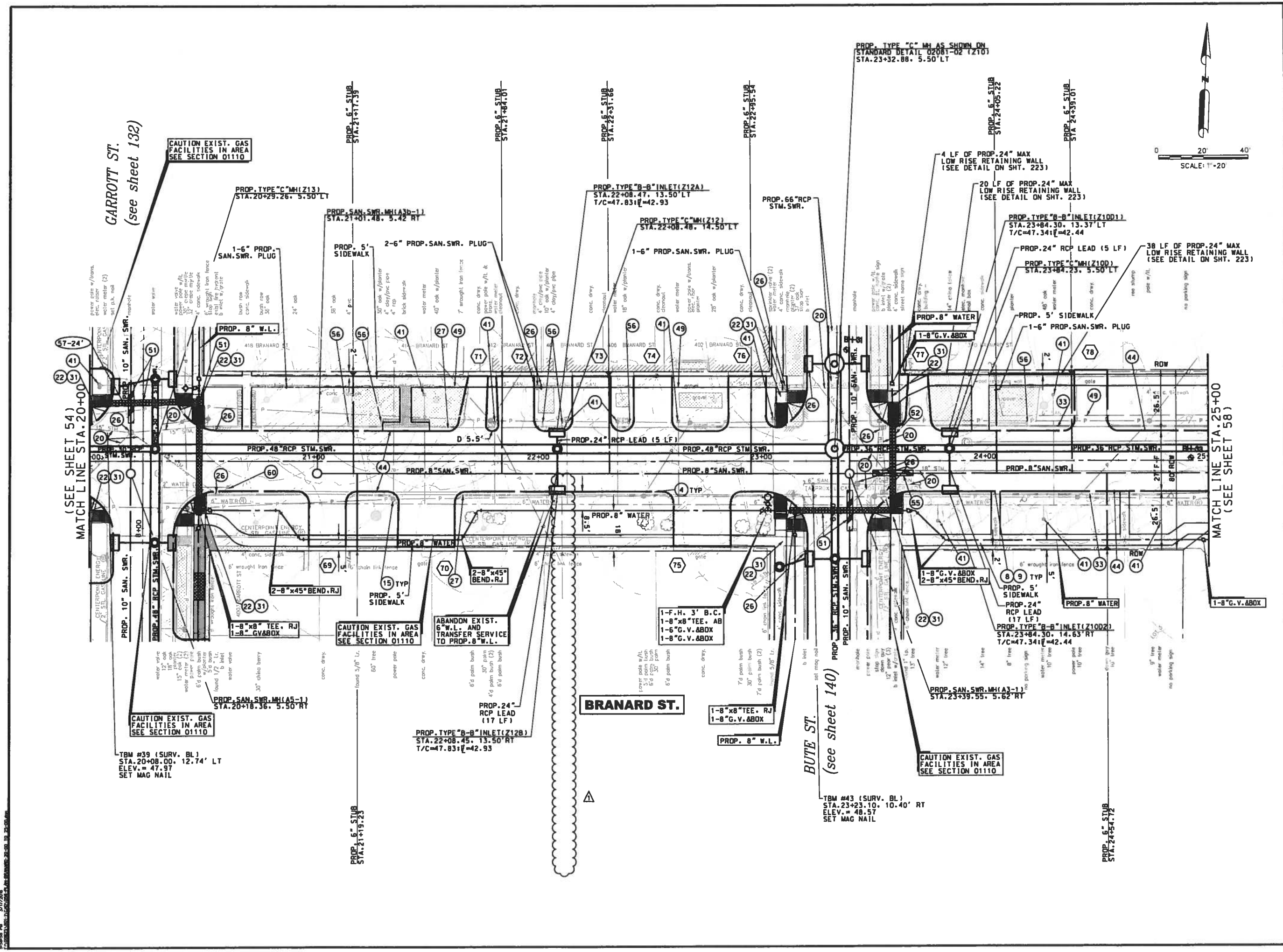
SURVEYED BY:
KUO & ASSOCIATES, INC.
C.O.N. FB No. P-5397

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

NEIGHBORHOOD STREET RECONSTRUCTION PROJECT 467
PROFILE
BRANARD STREET
STA. 15+00 TO STA. 20+00

WBS NUMBER	
N-000400-0001-4	
DRAWING SCALE	
VERT. 1"=2' HORIZ. 1"=20'	
CITY OF HOUSTON PM	
BEN BANSAL, P.E.	
SHEET No. 55 OF 226	

P-1576



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ELEV.=39.93 FEET NAVD 1988. 2001 ADJUSTED

TEMPORARY BENCHMARKS:

TBM #	STA / OFF	DESC	ELEV

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VERIFICATION OF PRIVATE UTILITY LINES

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SURVEYED BY: RUD & ASSOCIATES, INC. C.O.H. FB No. P-5397

STATE OF TEXAS — MICHAEL ANDREW MARTIN — 63282 — LICENSED PROFESSIONAL ENGINEER — 3/11/11

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

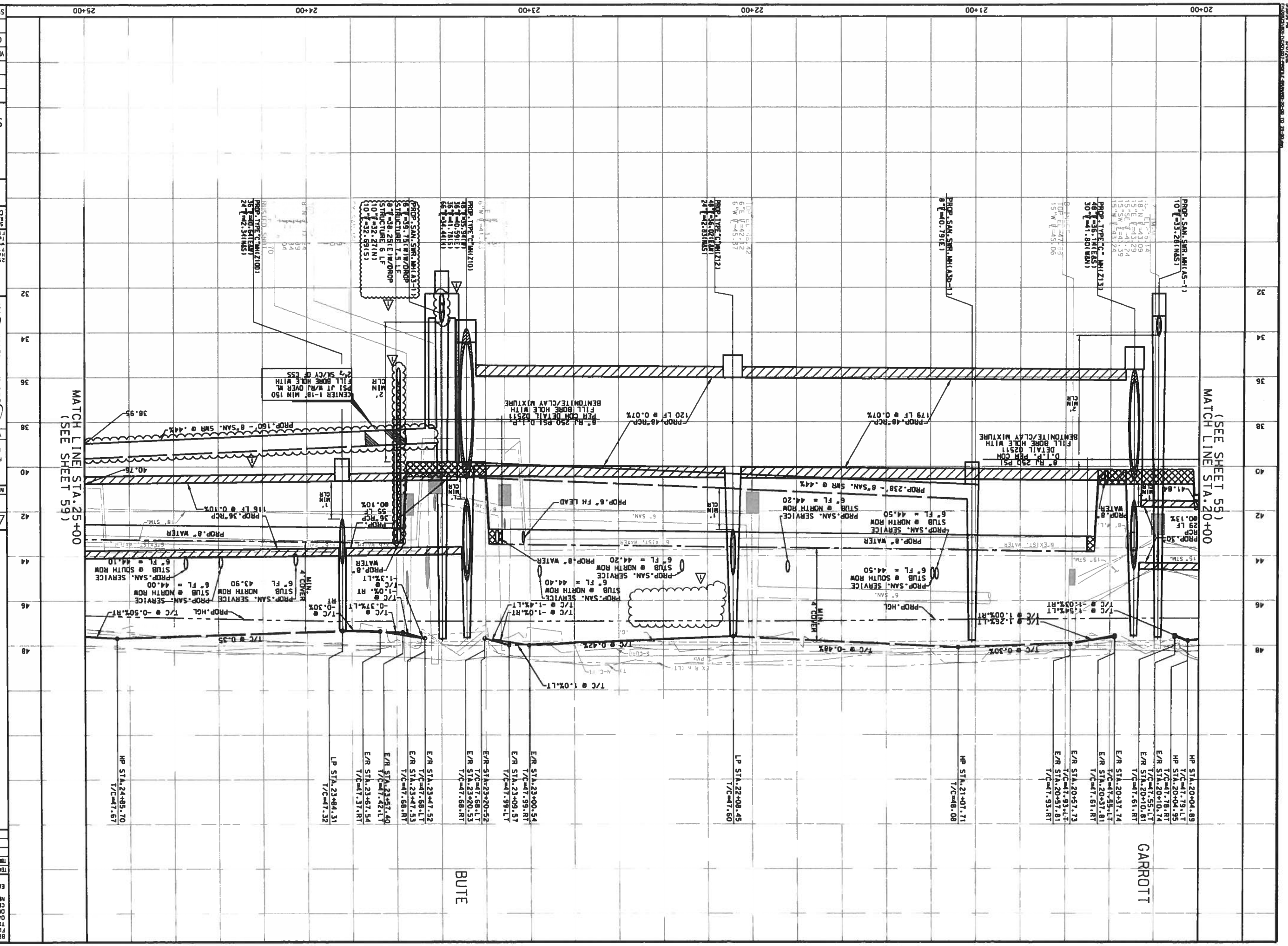
NEIGHBORHOOD STREET RECONSTRUCTION PROJECT 467

PLAN
BRANARD STREET
STA. 20+00 TO STA. 25+00

WBS NUMBER	
N-000400-0001-4	
DRAWING SCALE	
VERT. 1"=2' HORIZ. 1"=20'	
CITY OF HOUSTON PM	
BEN BANSAL, P.E.	
SHEET No. 56 OF 226	

P-1576

P-1576



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ELEV.=39.93 FEET NAVD 1988, 2001 ADJUSTED

TEMPORARY BENCHMARKS:

TBM #	STA / OFF	DESC	ELEV

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No.	DATE	REVISIONS	APP.
1	3/11	ADDENDUM #1 SAN.SWR., WATER LINE, SERVICED STUB REVISED	M.A.M.

VanDeWiele & Vogler Incorporated
2925 Briarpark, Suite 275
Houston, Texas 77042-3779
www.vandewiele-eng.com
Texas Professional Engineering Firm Registration No. F149

MICHAEL ANDREW MARTIN 63282 STATE OF TEXAS

SUBMITTED BY:
HUD & ASSOCIATES, INC.
C.O.H. FB NO. P-5397

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

NEIGHBORHOOD STREET RECONSTRUCTION PROJECT 467
PROFILE
BRANARD STREET
STA. 20+00 TO STA. 25+00

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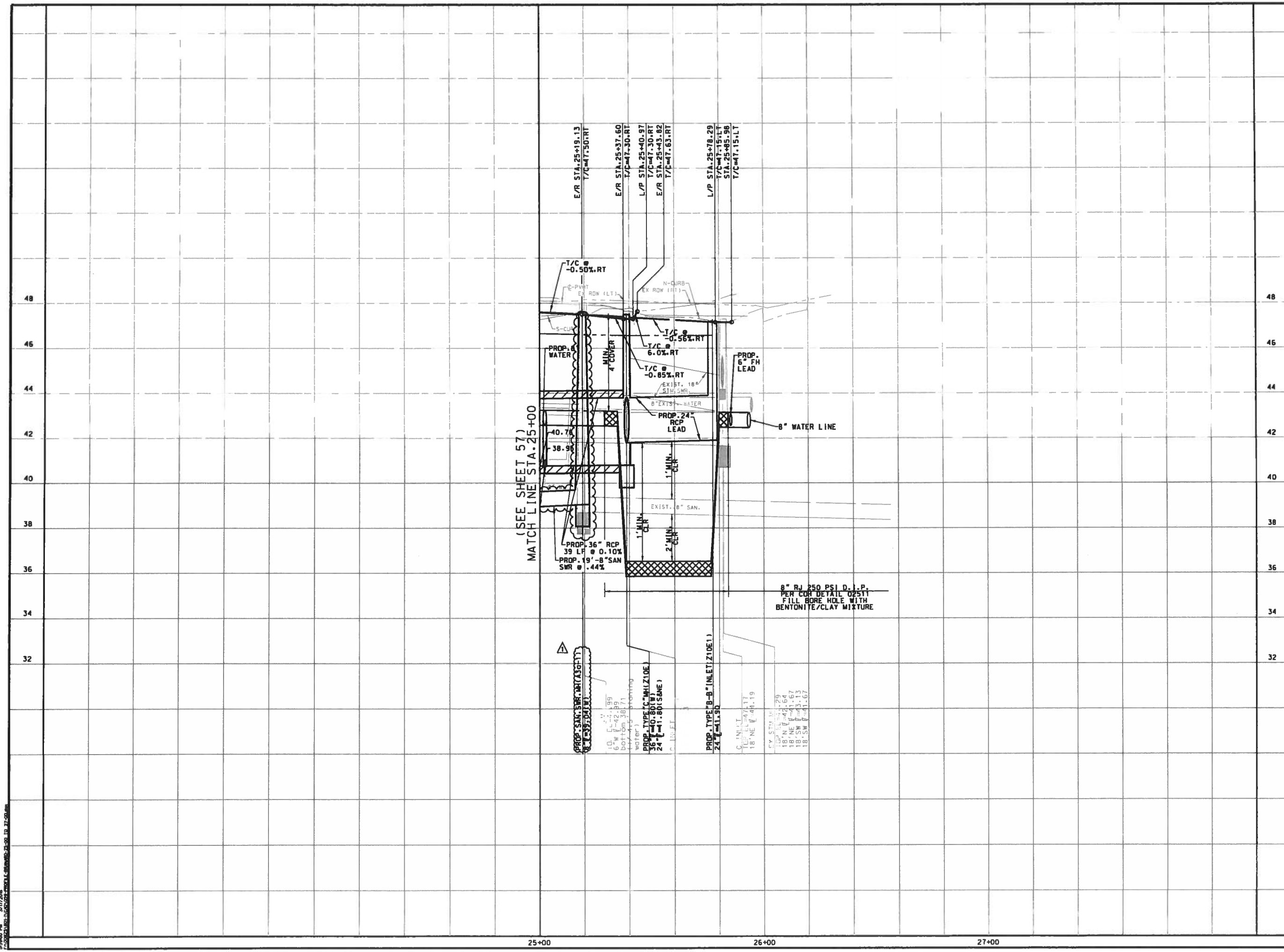
SHEET NO. 57 OF 226



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TBM #	STA / OFF	DESC	ELEV

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713/782-0042
www.vandewiele-eng.com
Texas Professional Engineering Firm Registration No. F148

STATE OF TEXAS MICHAEL ANDREW MARTIN 63282 LICENSED PROFESSIONAL ENGINEER 3/10/16

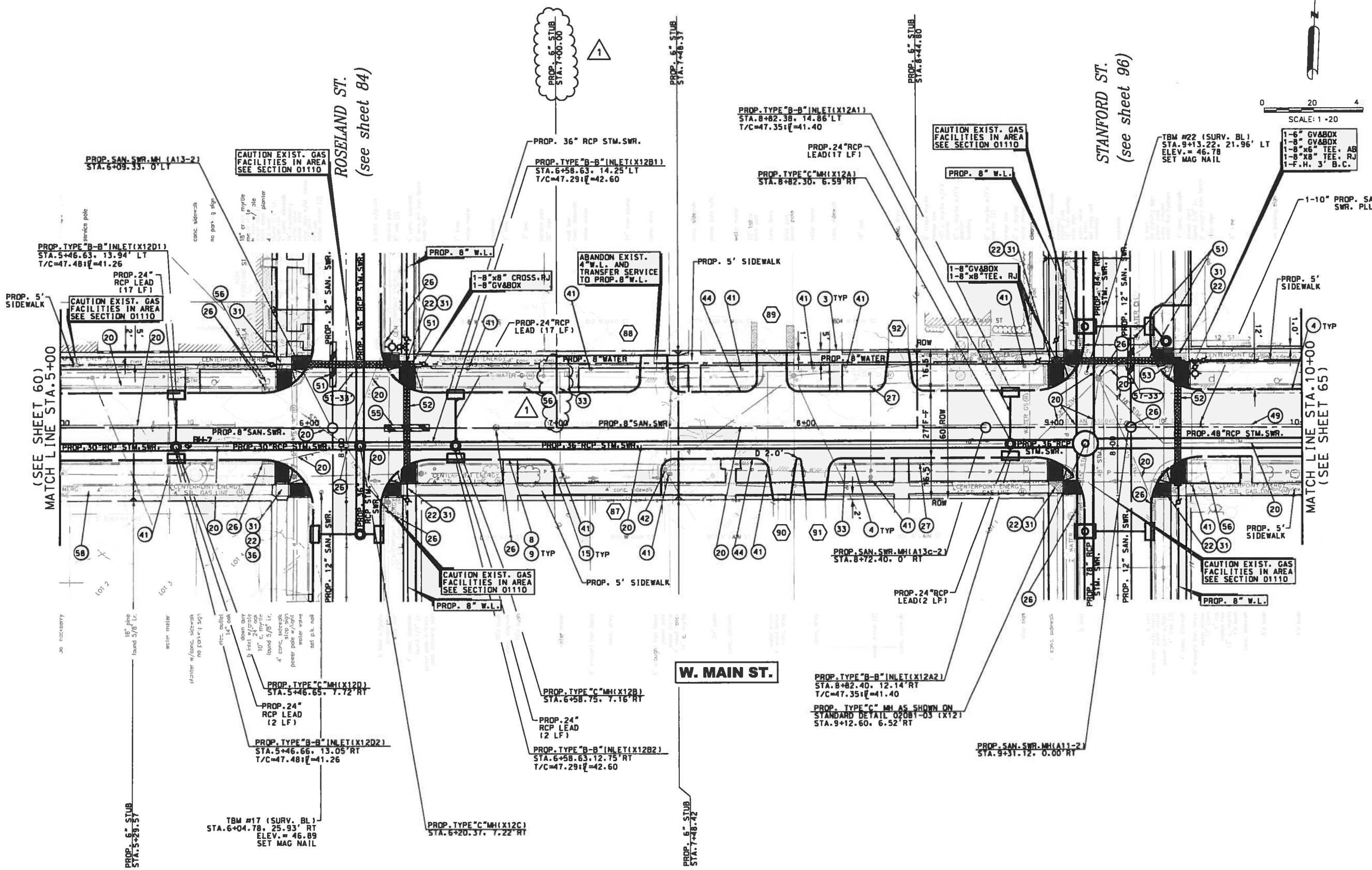
SURVEYED BY:
KUO & ASSOCIATES, INC.
C.O.H. FB No. P-5397

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

NEIGHBORHOOD STREET RECONSTRUCTION PROJECT 467
PROFILE
BRANARD STREET
STA. 25+00 TO STA. 27+00

WBS NUMBER	
N-000400-0001-4	
DRAWING SCALE	
VERT. 1"=2' HORIZ. 1"=20'	
CITY OF HOUSTON PM	
BEN BANSAL, P.E.	
SHEET No. 59 OF 226	

P-1576



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ELEV.=39.93 FEET NAVD 1988. 2001 ADJUSTED

TEMPORARY BENCHMARKS:

TBM #	STA / OFF	DESC	ELEV

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PLAN
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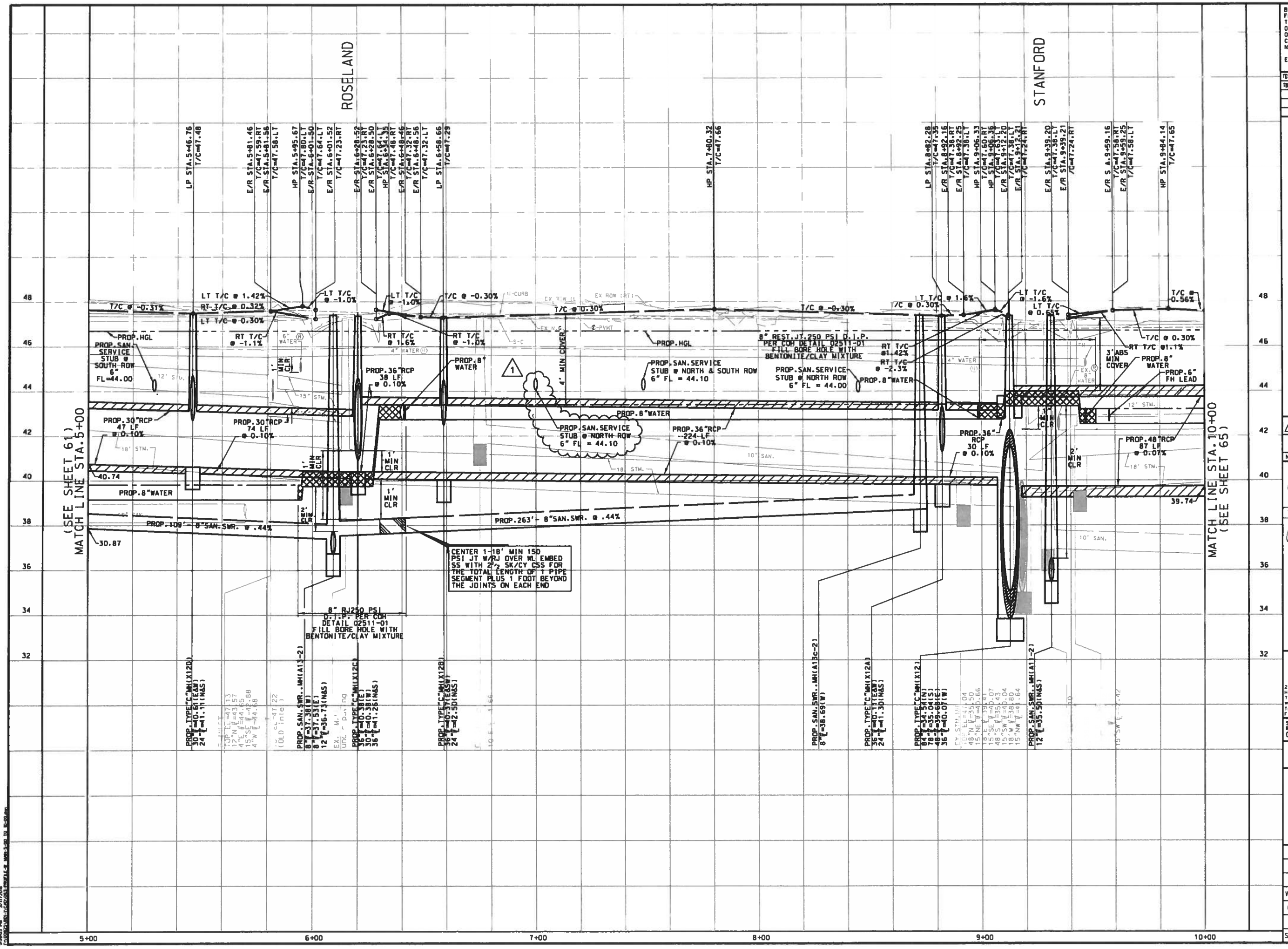

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DRAWING SCALE	VERT. 1"=2' HORIZ. 1"=20'
CITY OF HOUSTON PM	BEN BANSAL, P.E.
SHEET No. 63 OF 226	

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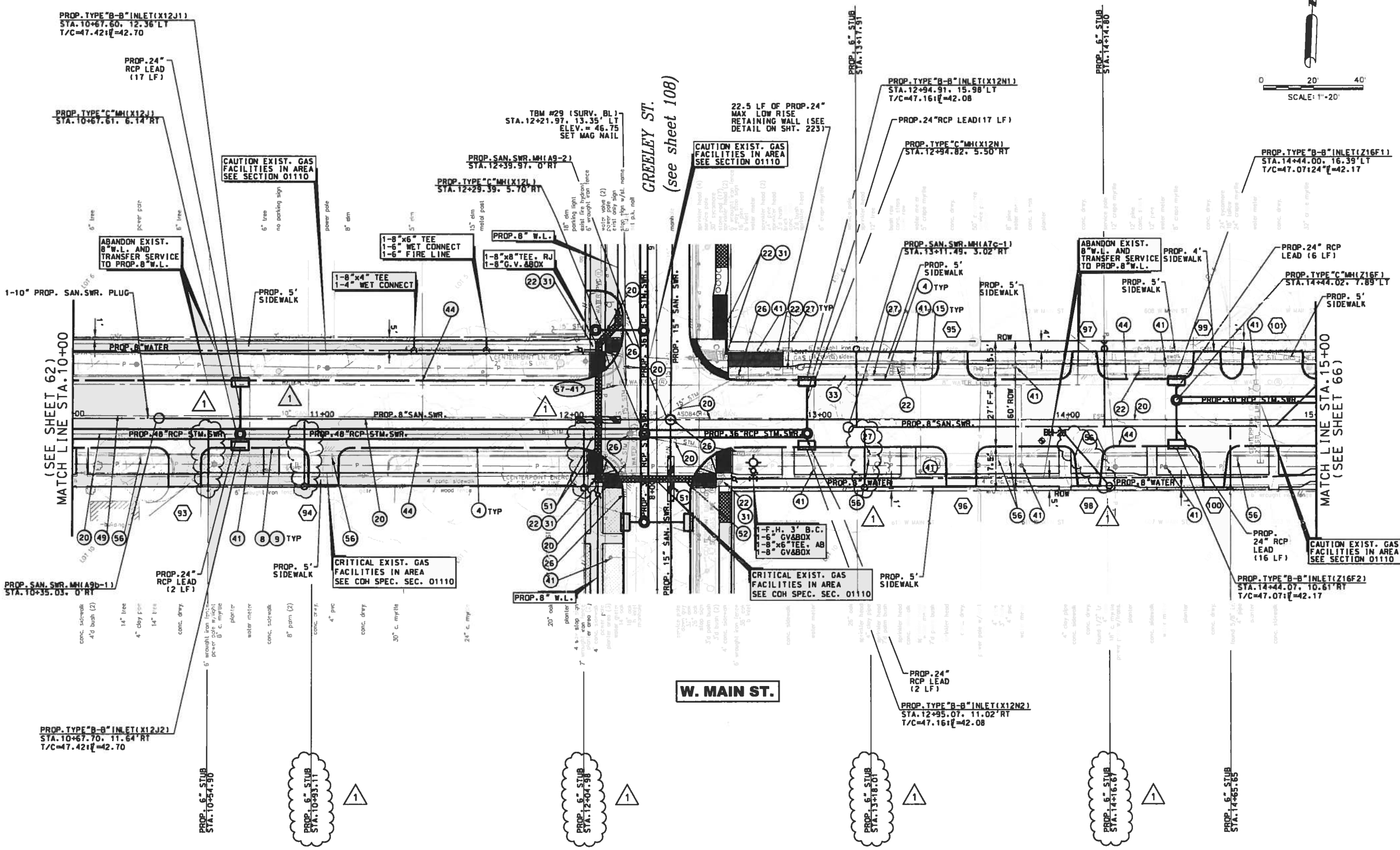

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5/1/16

SURVEYED BY:
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C.O.H. FB No. P-5397

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STA. 10+00 TO STA. 15+00

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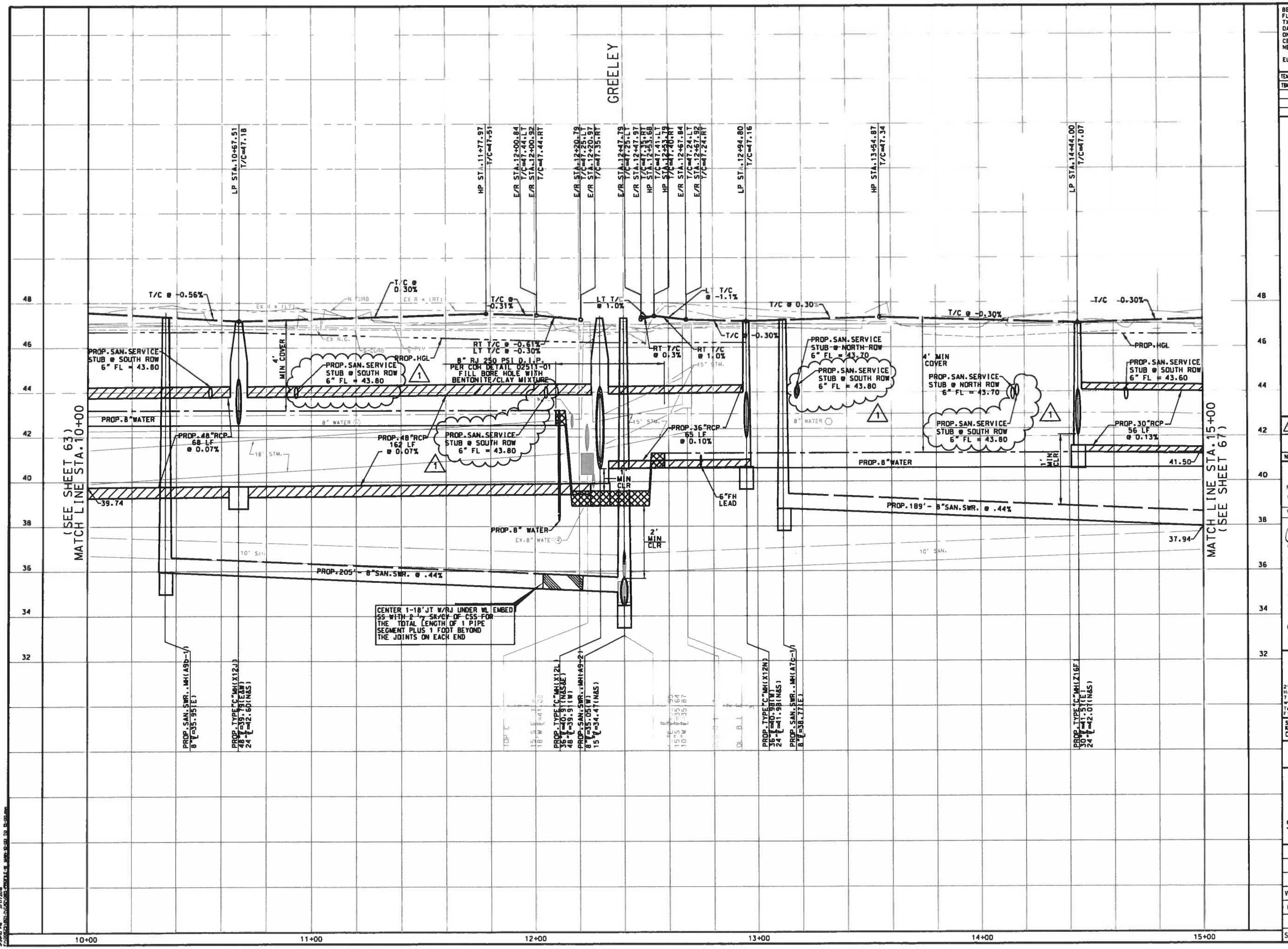

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ELEV.=39.93 FEET NAVD 1988. 2001 ADJUSTED

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NEIGHBORHOOD STREET RECONSTRUCTION PROJECT 467
PROFILE
WEST MAIN STREET
STA. 10+00 TO STA. 15+00

WBS NUMBER	
N-000400-0001-4	
DRAWING SCALE	
VERT. 1"=2' HORIZ. 1"=20'	
CITY OF HOUSTON PM	
BEN BANSAL, P.E.	
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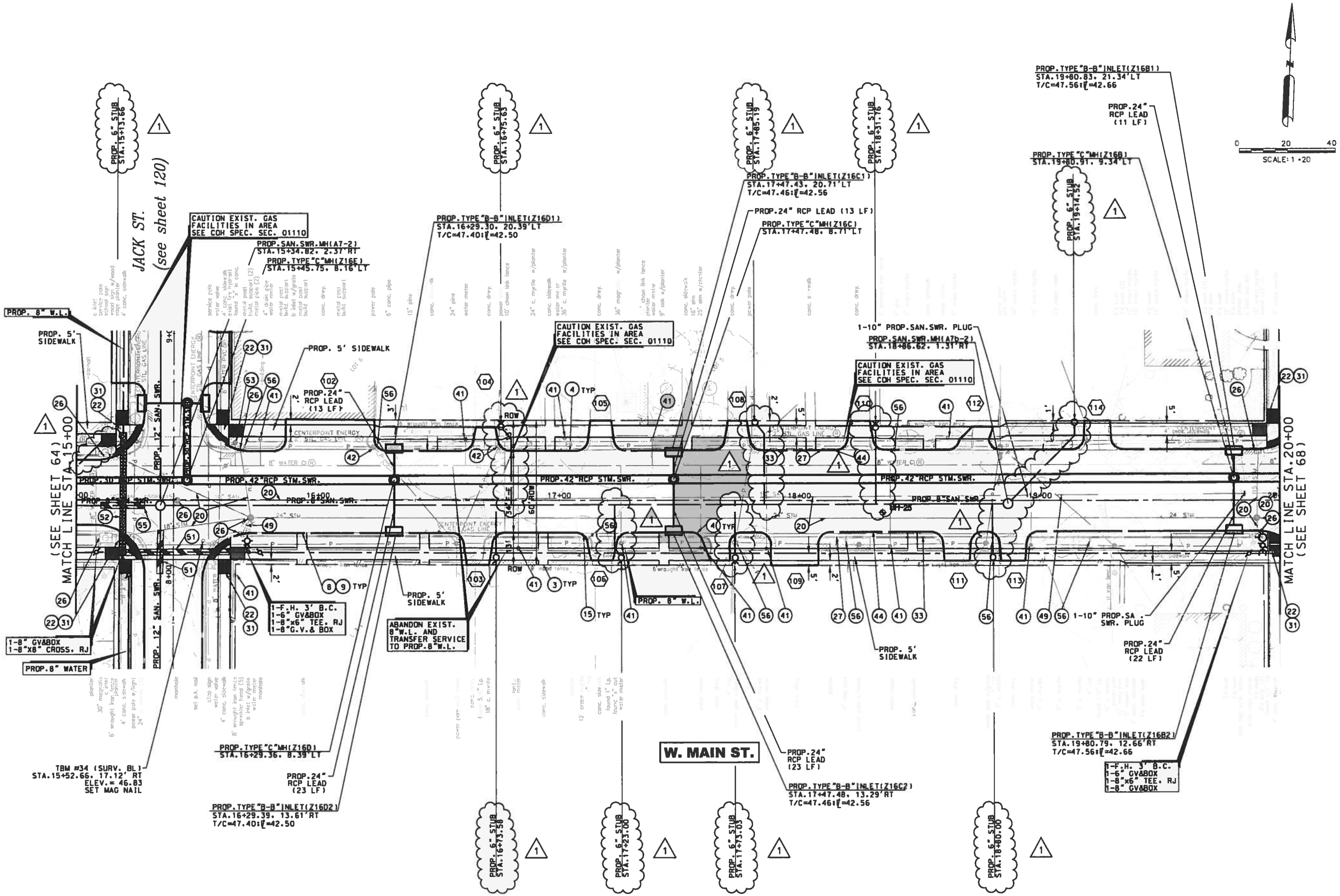

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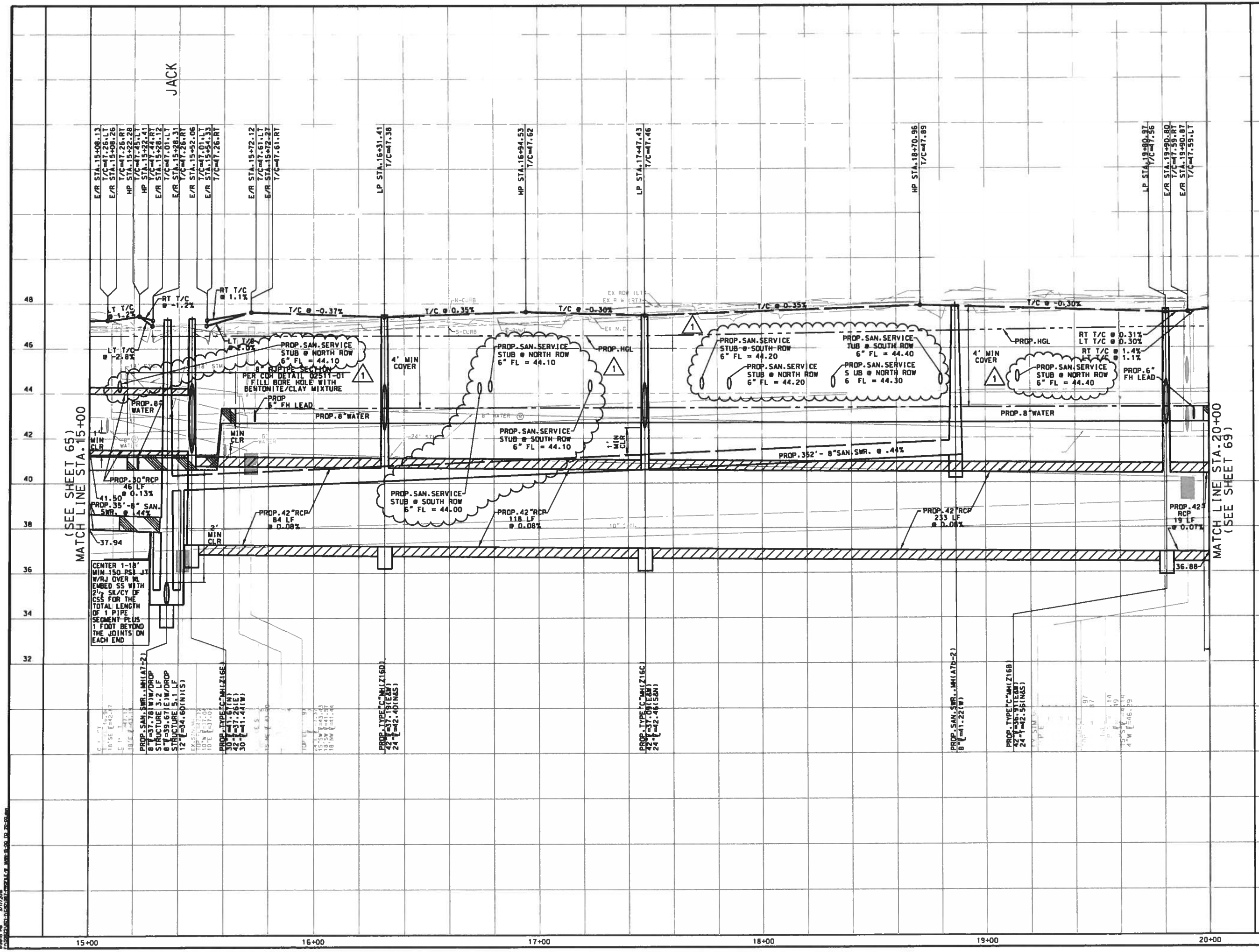

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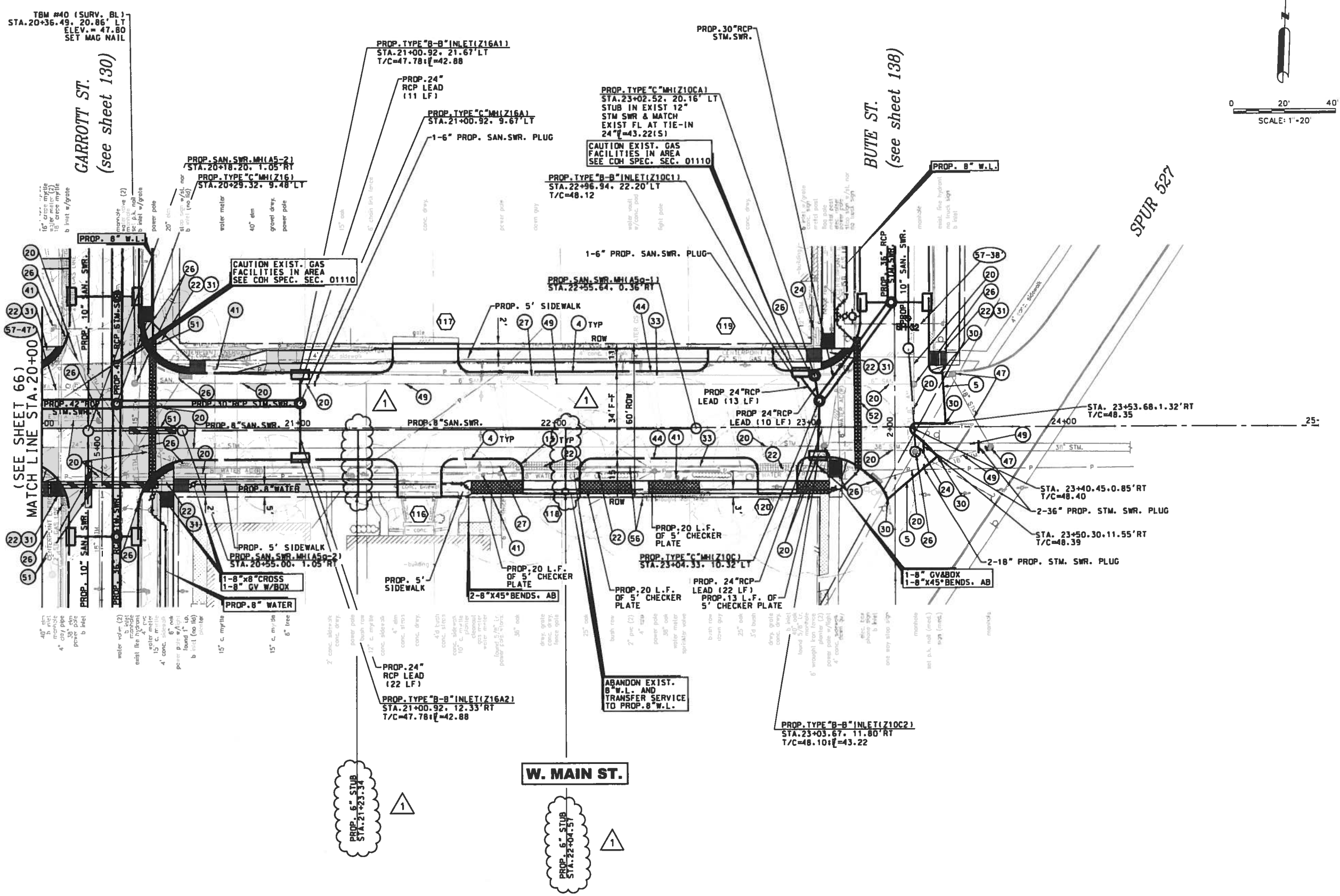

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3/11/16

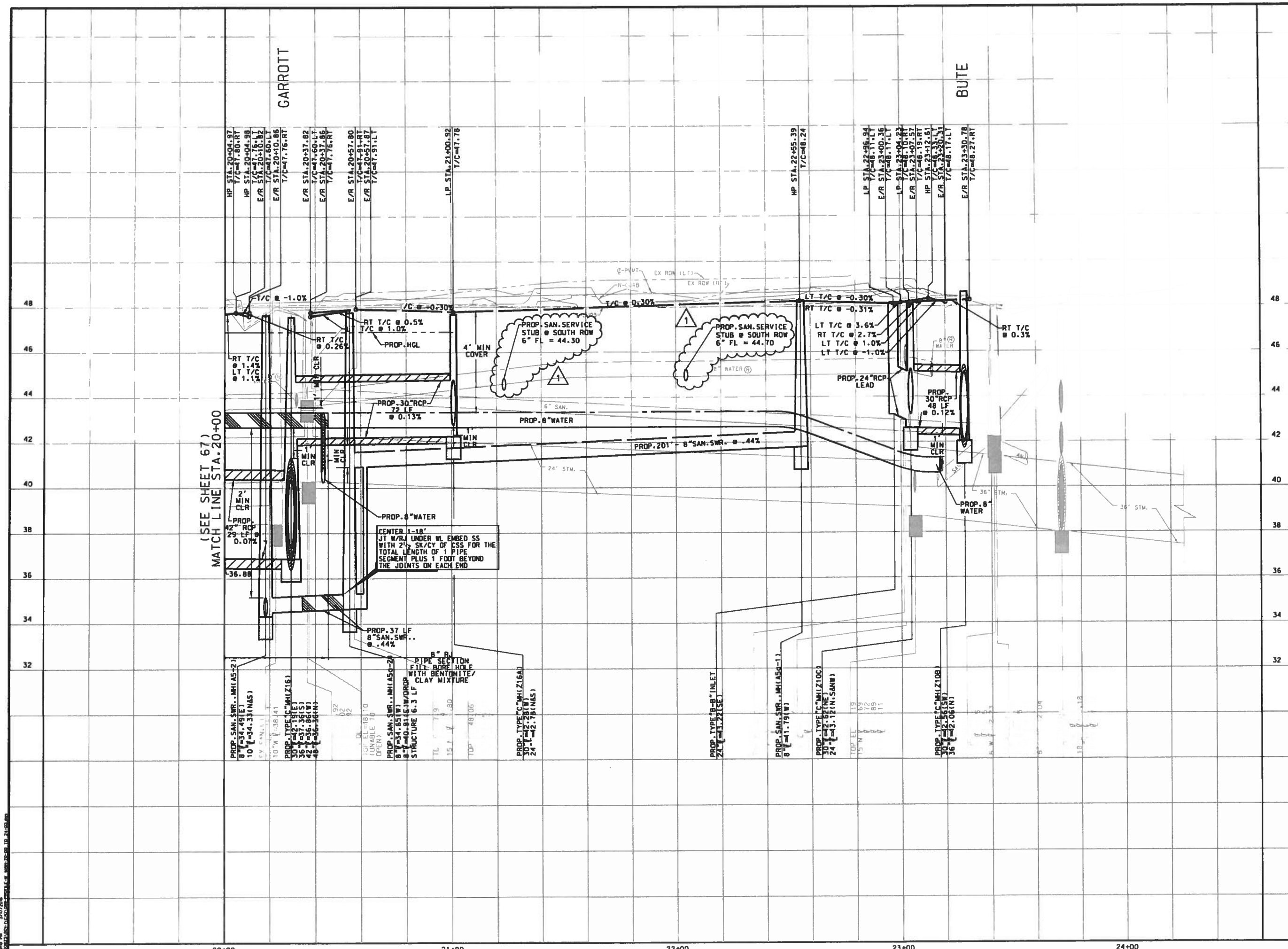
SURVEYED BY:
KUO & ASSOCIATES, INC.
C.O.H. FB No. P-5397

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

NEIGHBORHOOD STREET RECONSTRUCTION PROJECT 467

PLAN
WEST MAIN STREET
STA. 20+00 TO STA. 24+00

WBS NUMBER	
N-000400-0001-4	
DRAWING SCALE	
VERT. 1"=2' HORIZ. 1"=20'	
CITY OF HOUSTON PM	
BEN BANSAL, P.E.	
SHEET No. 68 OF 226	



BENCHMARK:
FLOODPLAIN REFERENCE MARK NUMBER 050025 IS A TXDOT DISK ON BRIDGE AT HEIGHTS BLVD AND WHITE OAK BAYOU LOCATED ON UPSTREAM. CONCRETE WALK. ON SW CORNER OF S-BOUND BRIDGE. 5. OF STREAM CENTER IN KEYMAP 493E IN THE WHITE OAK WATERSHED NEAR STREAM E100-00-00

ELEV.=39.93 FEET NAVD 1988. 2001 ADJUSTED

TEMPORARY BENCHMARKS:

TBM #	STA / OFF	DESC	ELEV

NOTES:

1. AT&T TEXAS/SWBT MANHOLES TO BE ADJUSTED TO NEW GRADE BY AT&T. CONTRACTOR TO COORDINATE.
2. LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE. CONTRACTOR TO CONFIRM LOCATIONS IN THE FIELD. CONTRACTOR TO RECONNECT ALL EXISTING SERVICES TO PROPOSED SANITARY SEWER AND WATER LINES.
3. EXISTING PVC YARD DRAINAGE AND SPRINKLERS TO BE REMOVED AND REPLACED.
4. ROADWAY INTERSECTION RADII SHALL BE 20' UNLESS OTHERWISE NOTED ON THE PLAN. DRIVEWAY RADII 5' UNLESS OTHERWISE NOTED ON THE TYPICAL DETAIL PLAN.
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No.	DATE	REVISIONS	APP.
1	3/11	ADDENDUM #1 SERVICE STUB REVISED	M.A.M.

TO ARRANGE FOR LINES TO BE TURNED OFF OR MOVED, CALL CENTERPOINT ENERGY AT 713-207-2222.

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VERIFICATION OF PRIVATE UTILITY LINES

A Pickens Date: 12-1-15
CenterPoint Energy/Natural Gas Facilities Verification ONLY
(This signature verifies that you have shown CNP Natural Gas lines correctly – not to be used for conflict verification)(Gas service
Signature valid for six months.

A Pickens Date: 12-1-15
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(This signature verifies existing underground facilities – not to be used for conflict verification.)
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J Caesar Date: 12-1-15
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Signature valid for one year.

VanDeWiele & Vogler Incorporated
2925 Briarpark, Suite 275
Houston, Texas 77042-3778
713/782-0042
www.vandewiele-eng.com
Texas Professional Engineering Firm Registration No. F148

SURVEYED BY:
RUD & ASSOCIATES, INC.
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STATE OF TEXAS
MICHAEL ANDREW MARTIN
63282
LICENSED
PROFESSIONAL ENGINEER
3/11/16

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

NEIGHBORHOOD STREET RECONSTRUCTION PROJECT 467
PROFILE
WEST MAIN STREET
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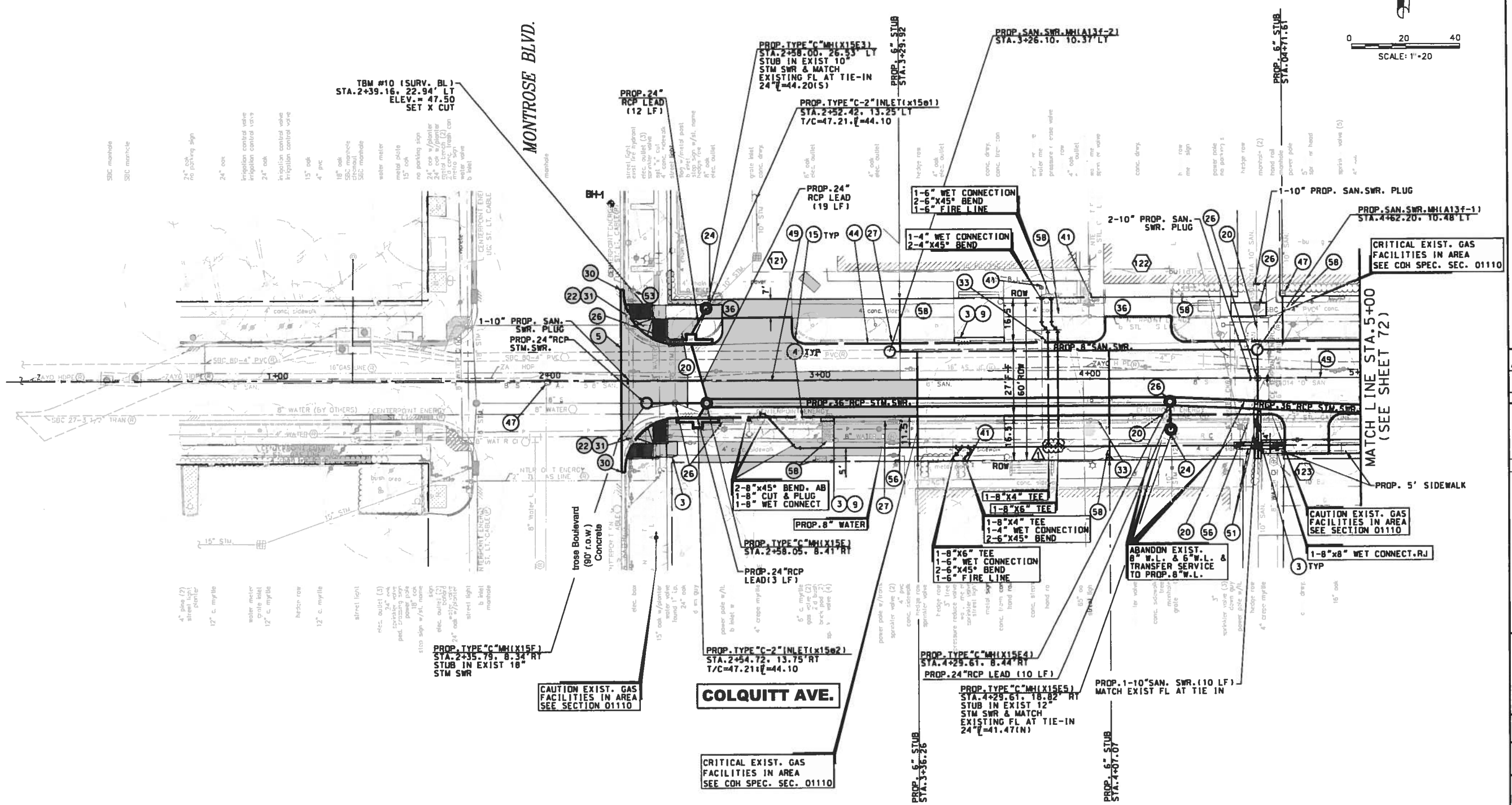

NOTE: RELOCATE A 4-INCH WATER METER AT 4119 MONTROSE BLVD. AND INSTALL A NEW 4-INCH SERVICE CONNECTION.

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ELEV.=39.93 FEET NAVD 1988. 2001 ADJUSTED

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STATE OF TEXAS MICHAEL ANDREW WARTH 63282 LICENSED PROFESSIONAL ENGINEER 3/11/16

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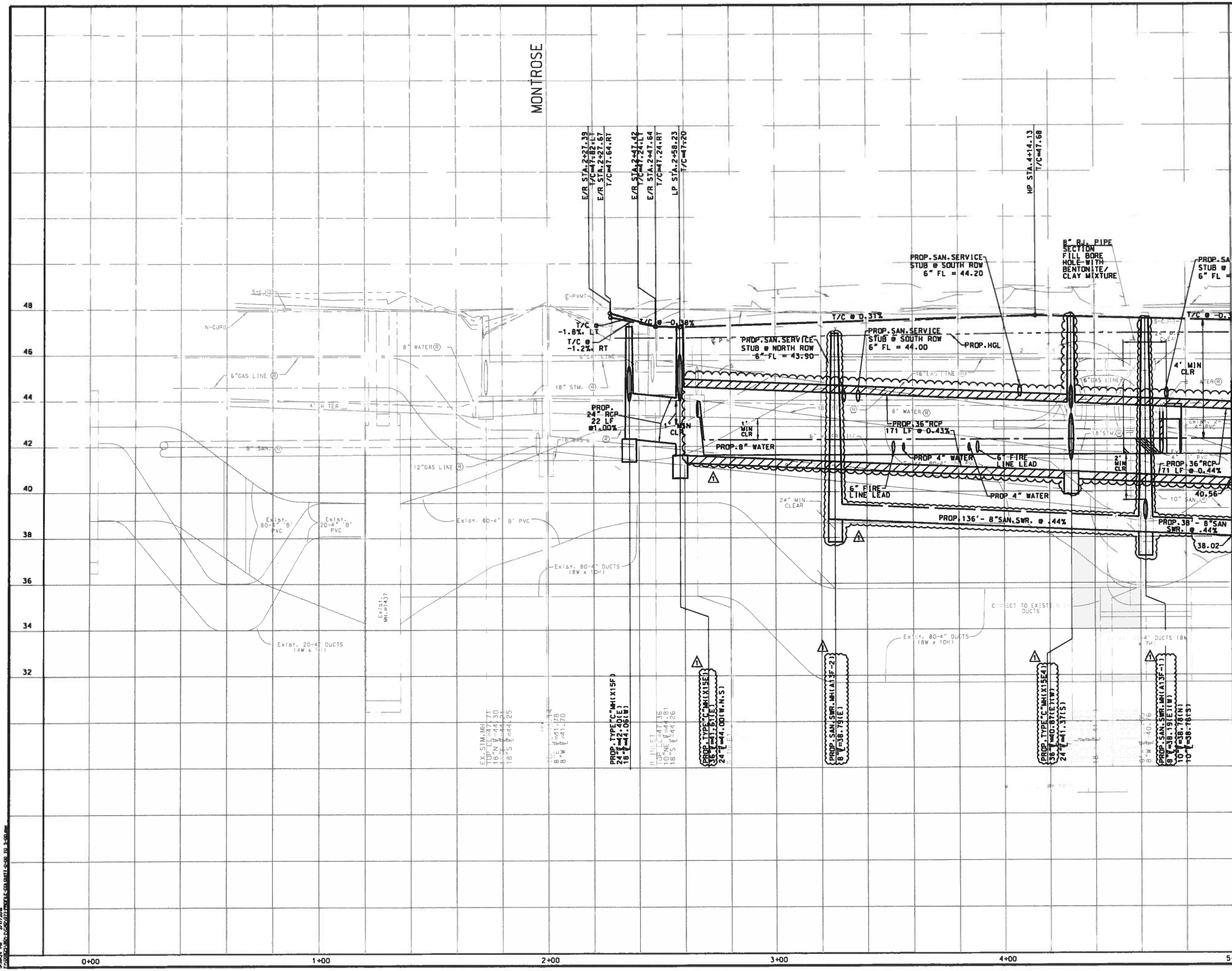
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

NEIGHBORHOOD STREET RECONSTRUCTION PROJECT 467
PLAN
COLQUITT AVENUE
STA. 0+00 TO STA. 5+00

WBS NUMBER	N-000400-0001-4
DRAWING SCALE	VERT. 1"=2' HORIZ. 1"=20'
CITY OF HOUSTON PM	BEN BANSAL, P.E.
SHEET No. 70 OF 226	

P-1576



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STATE OF TEXAS MICHAEL ANDREW MARTIN 63282 LICENSED PROFESSIONAL ENGINEER 3/10/16

SURVEYED BY:
RUD & ASSOCIATES, INC.
C.O.H. FB No. P-5397

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

NEIGHBORHOOD STREET RECONSTRUCTION PROJECT 467

PROFILE
COLQUITT STREET
STA. 0+00 TO STA. 5+00

WBS NUMBER
N-000400-0001-4
DRAWING SCALE
VERT. 1"=2' HORIZ. 1"=20'
CITY OF HOUSTON PM
BEN BANSAL, P.E.
SHEET No. 71 OF 226

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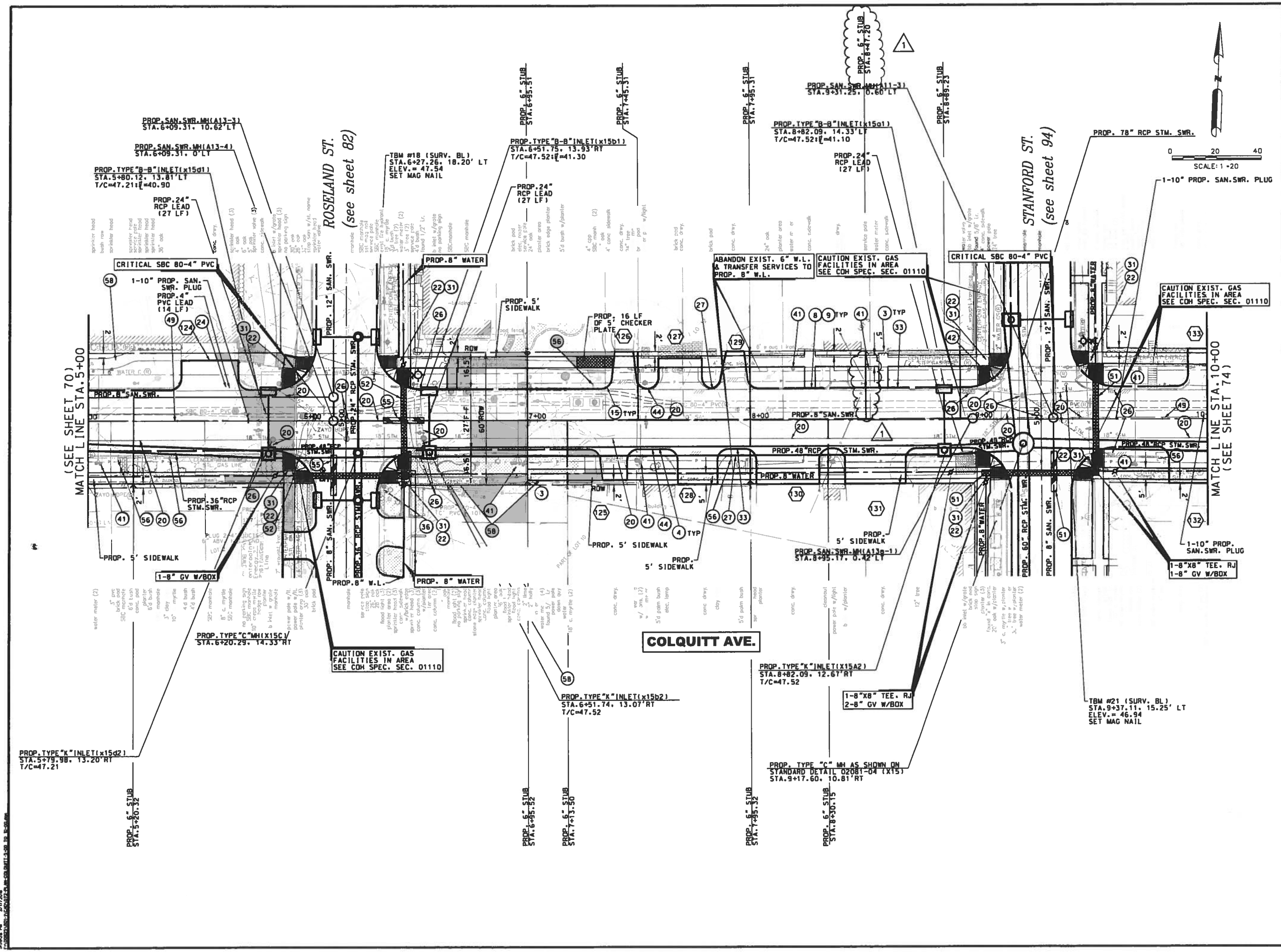

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STATE OF TEXAS
MICHAEL ANDREW MARTIN
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LICENSED
PROFESSIONAL ENGINEER
5/11/16

SURVEYED BY:
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C.O.H. FB No. P-5397

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

NEIGHBORHOOD STREET RECONSTRUCTION PROJECT 467

PLAN
COLQUITT AVENUE
STA. 5+00 TO STA. 10+00

WBS NUMBER	
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VERT. 1"=2' HORIZ. 1"=20'	
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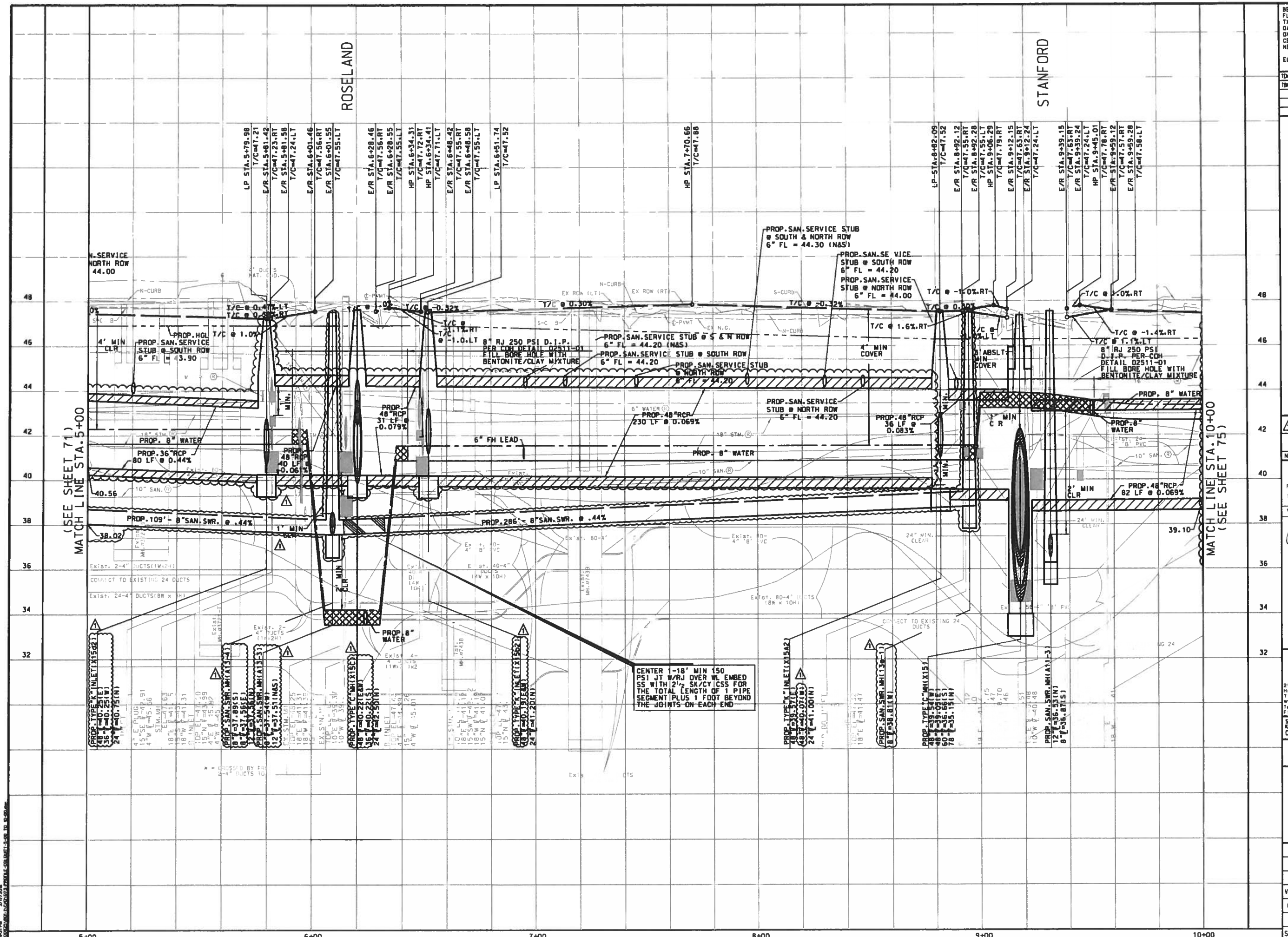
BEN BANSAL, P.E.	
SHEET No. 72 OF 226	

P-1576



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STATE OF TEXAS — MICHAEL ANDREW MARTIN — 63282 — LICENSED PROFESSIONAL ENGINEER — 3/14/16

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DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

NEIGHBORHOOD STREET RECONSTRUCTION PROJECT 467
PROFILE
COLQUITT STREET
STA. 5+00 TO STA. 10+00

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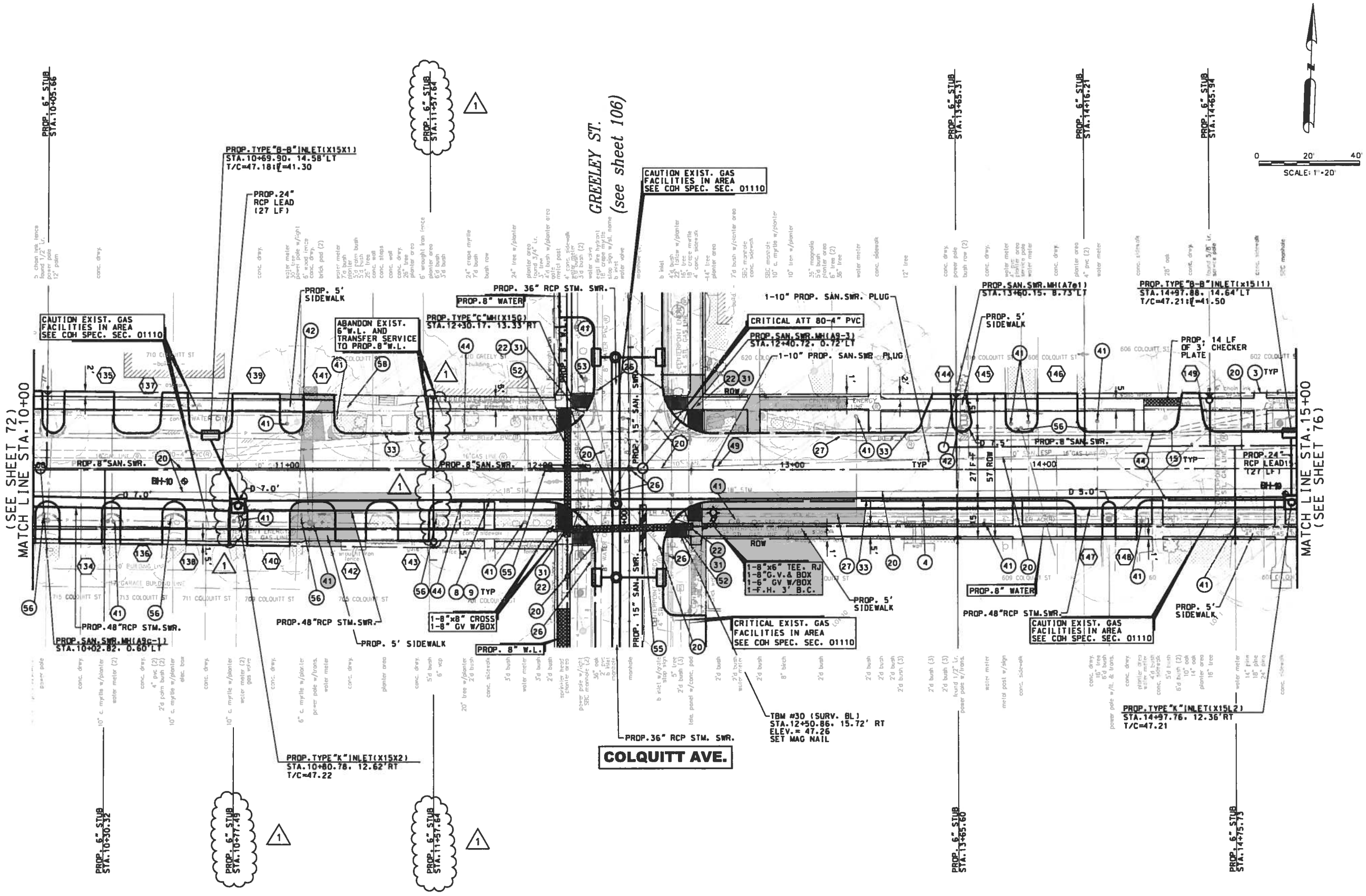

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5/11/10

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PLAN
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STA. 10+00 TO STA. 15+00

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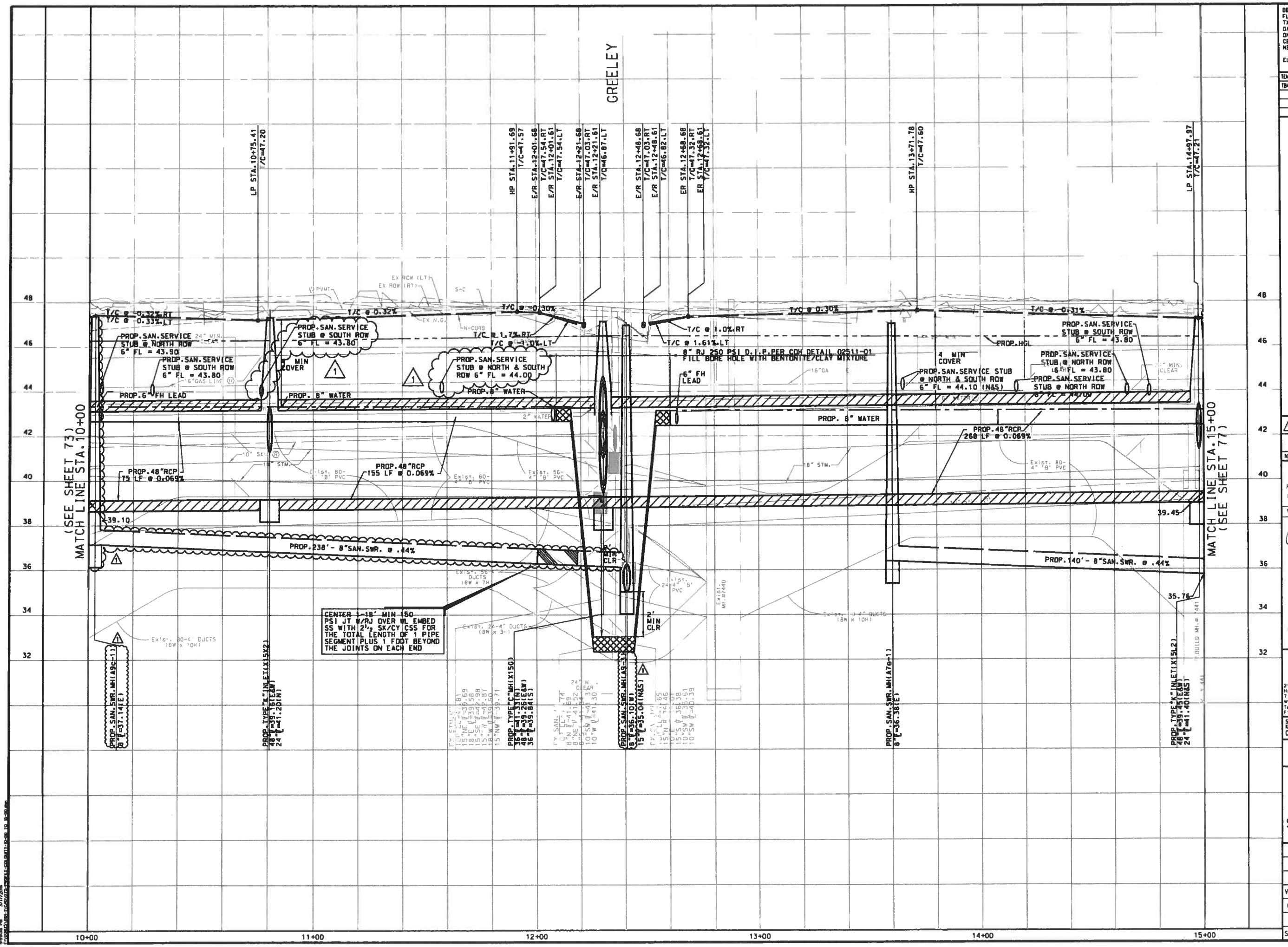

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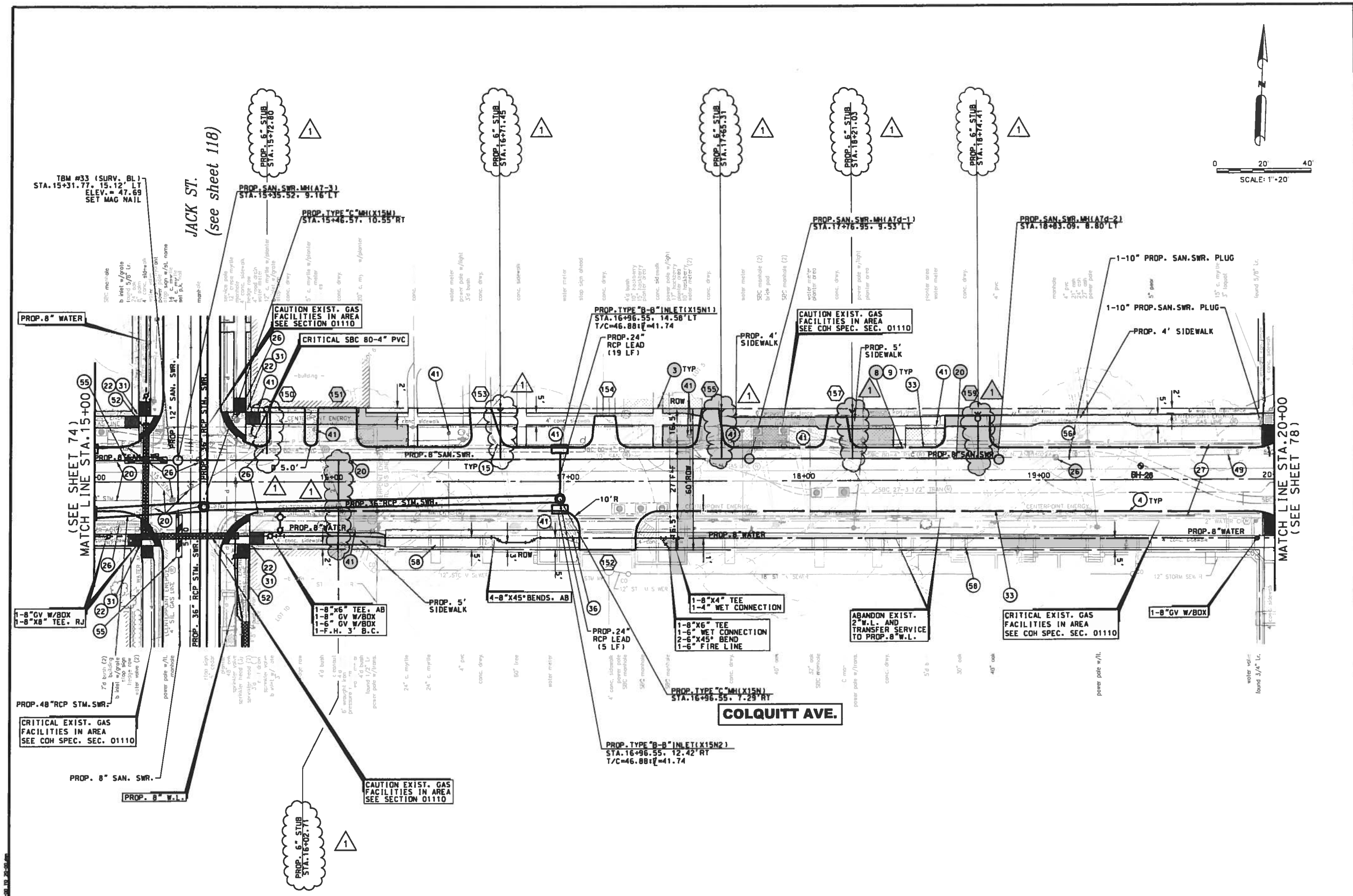

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No.	DATE	REVISIONS	APP.
1	3/11	ADDENDUM #1 SERVICE STUB REVISED	M.A.W.

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VERIFICATION OF PRIVATE UTILITY LINES

A Pickens Date: 12-1-15
CenterPoint Energy/Natural Gas Facilities Verification ONLY
(This signature verifies that you have shownCNP Natural Gas lines correctly – not to be used for conflict verification)(Gas service
Signature valid for six months.

A Pickens Date: 12-1-15
CenterPoint Energy/Underground Electric Facilities Verification ONLY
(This signature verifies existing underground facilites – not to be used for conflict verification.)
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J Covenant Date: 12-1-15
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VanDeWiele & Vogler Incorporated
2925 Briarpark, Suite 275
Houston, Texas 77042-3778
713/782-0042
www.vandewiele-eng.com
Texas Professional Engineering Firm Registration No. F148

STATE OF TEXAS
MICHAEL ANDREW MARTIN
63282
LICENSED PROFESSIONAL ENGINEER
3/11/16

SURVEYED BY:
NUO & ASSOCIATES, INC.
C.O.H. FB No. P-5397

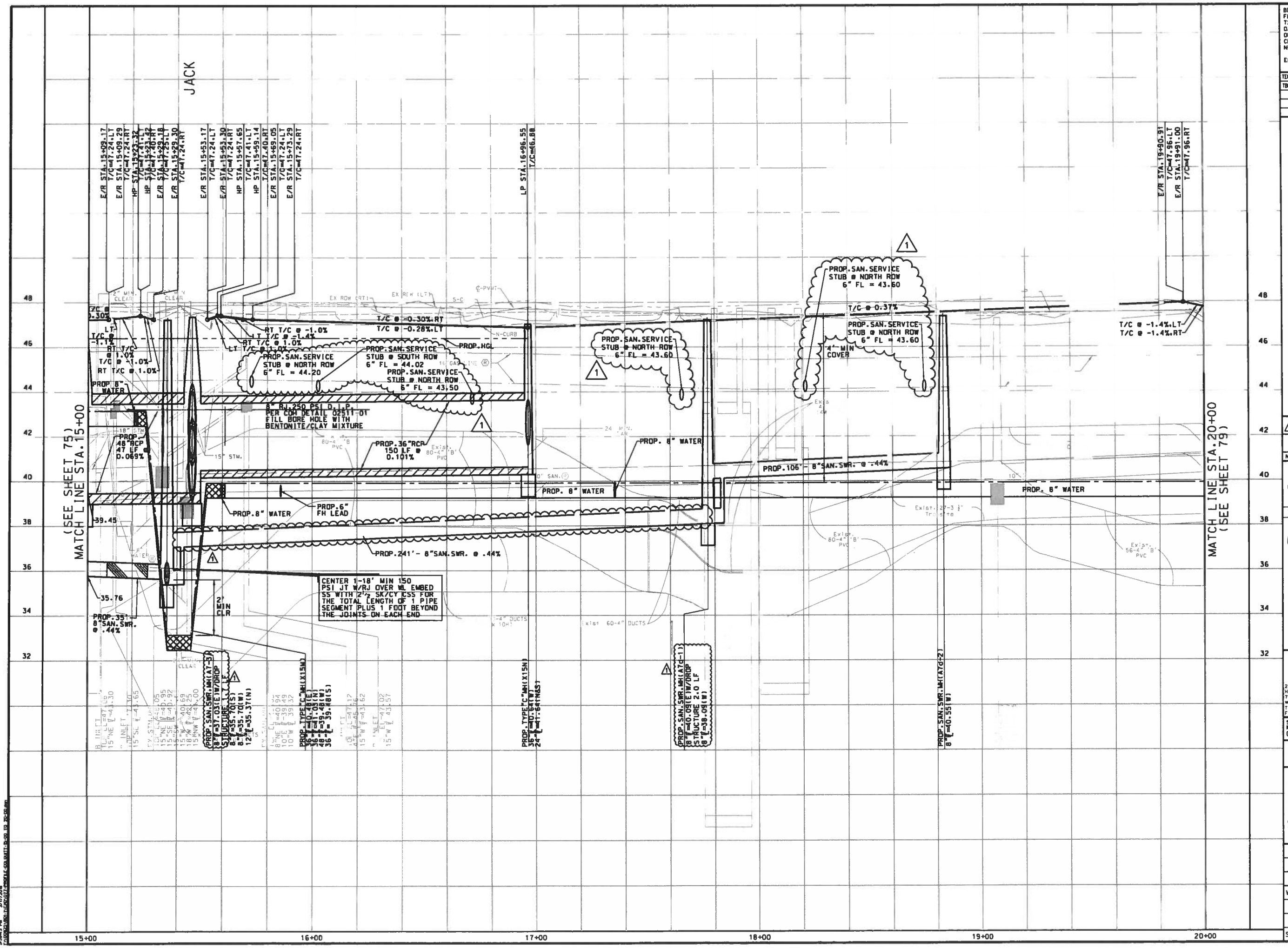
CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

NEIGHBORHOOD STREET RECONSTRUCTION PROJECT 467

PLAN
COLQUITT AVENUE
STA. 15+00 TO STA. 20+00

WBS NUMBER	
N-000400-0001-4	
DRAWING SCALE	
VERT. 1"=2' HORIZ. 1"=20'	
CITY OF HOUSTON PM	
BEN BANSAL, P.E.	
SHEET No. 76 OF 226	

P-1576



BENCHMARK:
FLOODPLAIN REFERENCE MARK NUMBER 050025 IS A TXDOT DISK ON BRIDGE AT HEIGHTS BLVD AND WHITE OAK BAYOU LOCATED ON UPSTREAM. CONCRETE WALK. ON SW CORNER OF S-BOUND BRIDGE. S. OF STREAM CENTER IN KEYMAP 493E IN THE WHITE OAK WATERSHED NEAR STREAM E100-00-00

ELEV.=39.93 FEET NAVD 1988, 2001 ADJUSTED

TEMPORARY BENCHMARKS:

TBM #	STA / OFF	DESC	ELEV

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PROFILE
COLQUITT STREET
STA. 15+00 TO STA. 20+00

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DRAWING SCALE
VERT. 1"=2' HORIZ. 1"=20'
CITY OF HOUSTON PM
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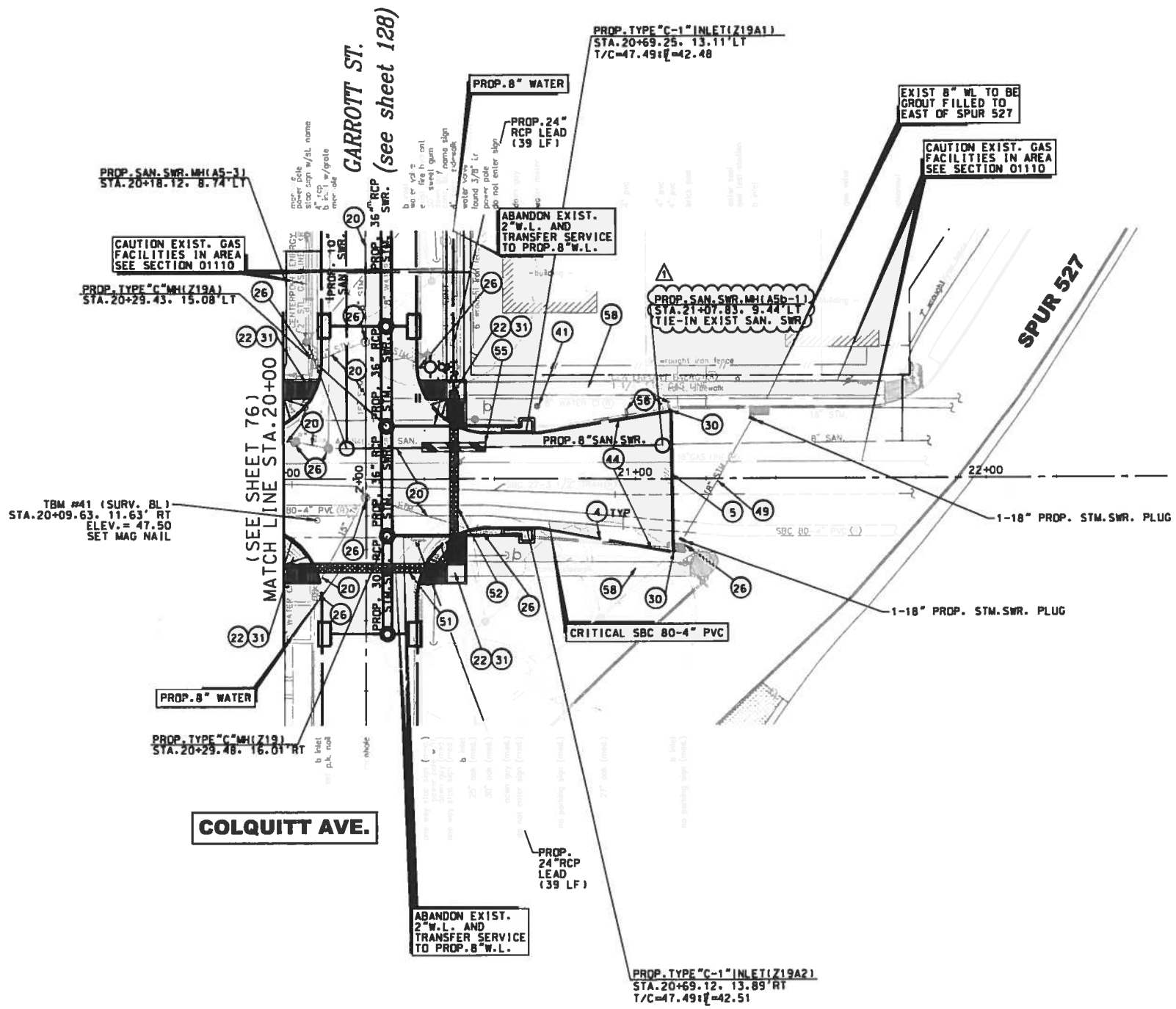
SHEET No. 77 OF 226

P-1576



0 20' 40'
SCALE: 1"=20'

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ELEV.=39.93 FEET NAVD 1988. 2001 ADJUSTED

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WBS NUMBER
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DRAWING SCALE
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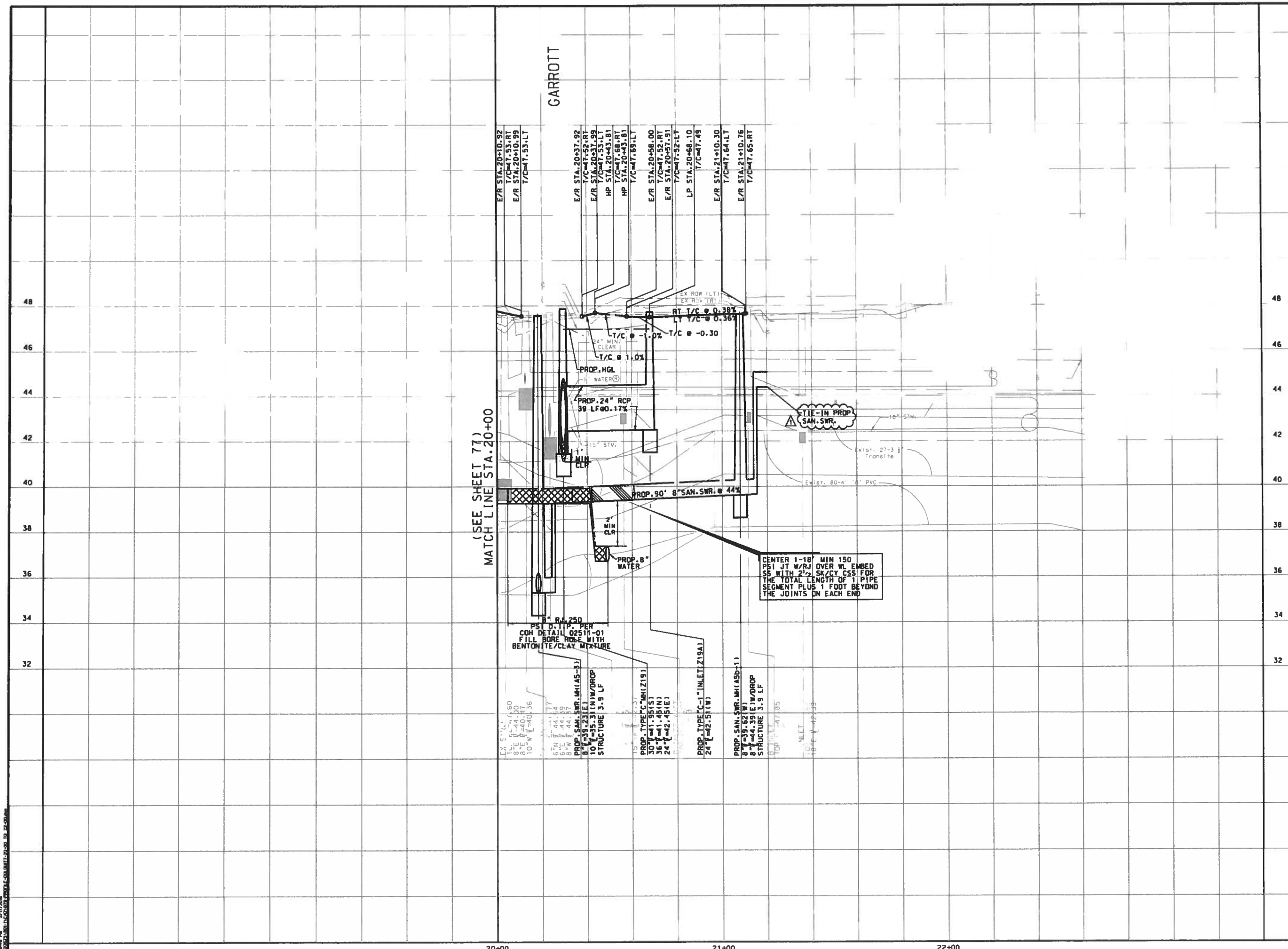

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DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

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PROFILE
COLQUITT STREET
STA. 20+00 TO STA. 22+00

WBS NUMBER
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DRAWING SCALE
VERT. 1"=2' HORIZ. 1"=20'
CITY OF HOUSTON PM
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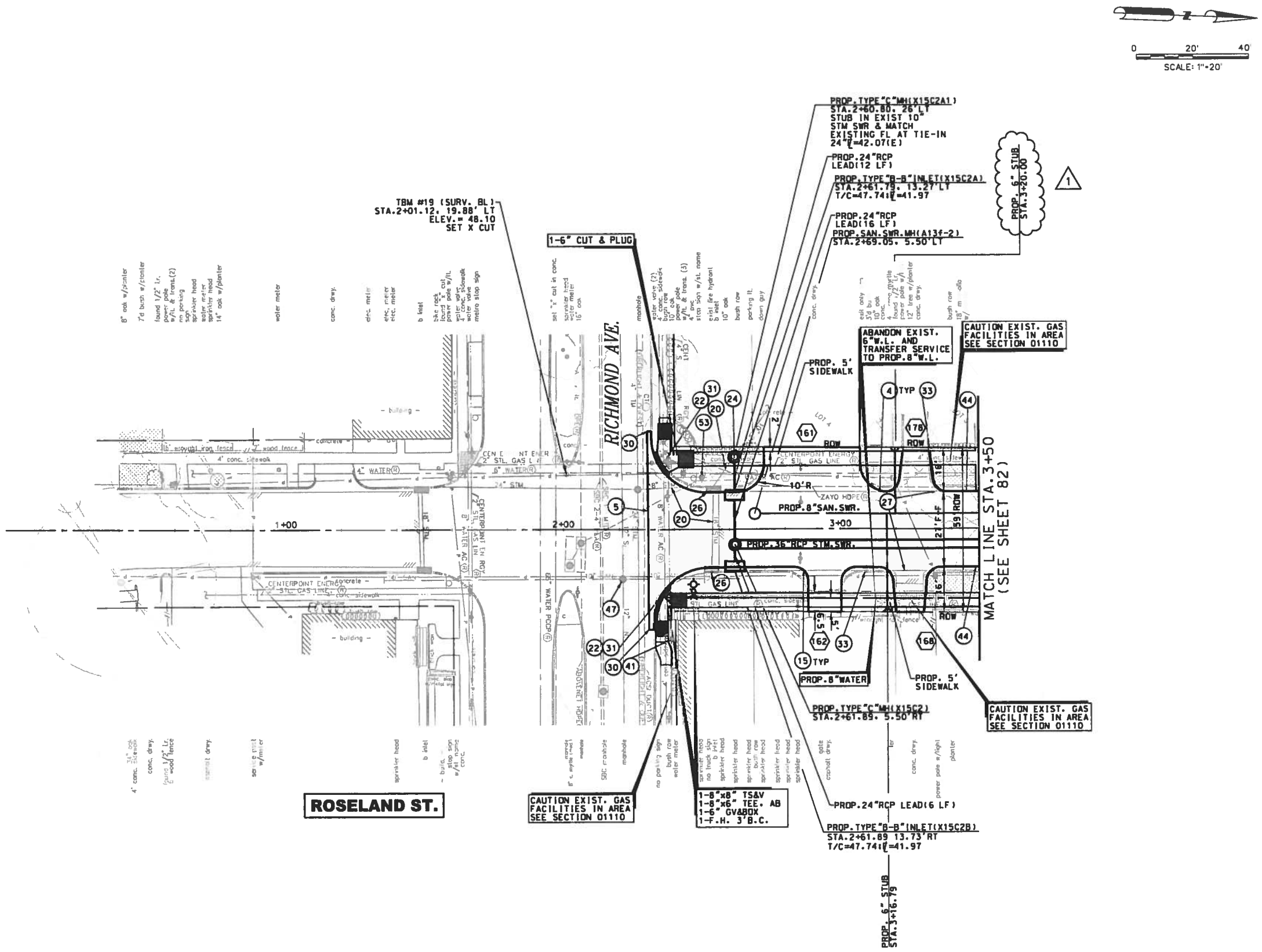

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ELEV.=39.93 FEET NAVD 1988. 2001 ADJUSTED

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STATE OF TEXAS
MICHAEL ANDREW MARTIN
63282
LICENSED PROFESSIONAL ENGINEER
3/11/16

SURVEYED BY:
KUO & ASSOCIATES, INC.
C.O.H. FB No. P-5397

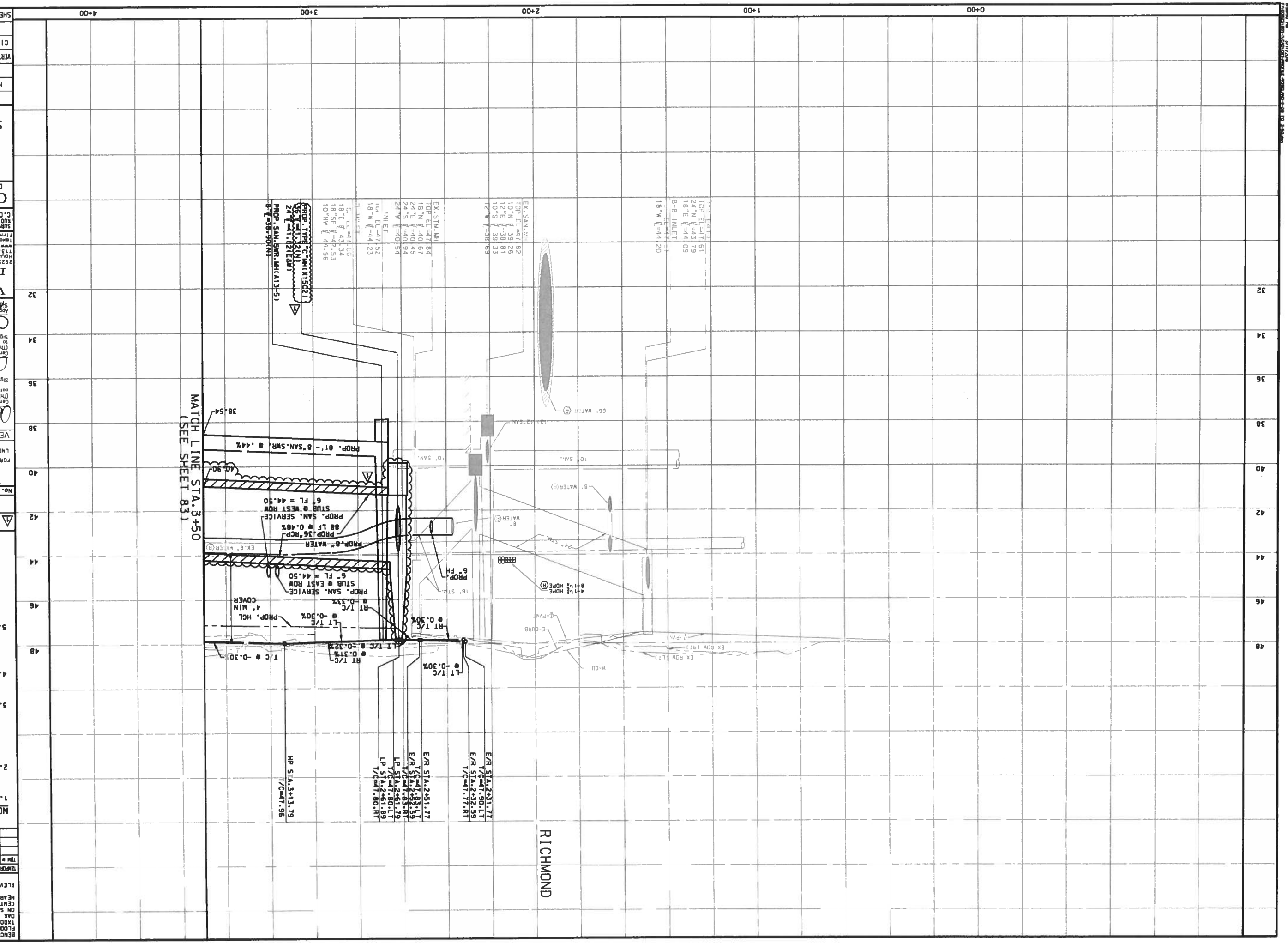
CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

NEIGHBORHOOD STREET RECONSTRUCTION PROJECT 467

PLAN
ROSELAND STREET
STA. 0+00 TO STA. 3+50

WBS NUMBER	
N-000400-0001-4	
DRAWING SCALE	
VERT. 1"=2' HORIZ. 1"=20'	
CITY OF HOUSTON PM	
BEN BANSAL, P.E.	
SHEET No. 80 OF 226	

P-1576



P-1576

MBS NUMBER
N-000400-0001-4
DRAWING SCALE
VERT. 1"=2', HORIZ. 1"=20'
CITY OF HOUSTON PM
BEN BANSAL, P.E.
SHEET NO. 81 OF 226

NEIGHBORHOOD STREET RECONSTRUCTION PROJECT 467
PROFILE
ROSELAND STREET
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CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

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STATE OF TEXAS — MICHAEL ANDREW WARNE — LICENSED PROFESSIONAL ENGINEER — 63282

SURVEYED BY: KUO & ASSOCIATES, INC.
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3/11	ADDENDUM #1 STM.SWR. & SERVICE STUB REVISED	M.A.M.	

NO.	DATE	REVISIONS	APP.

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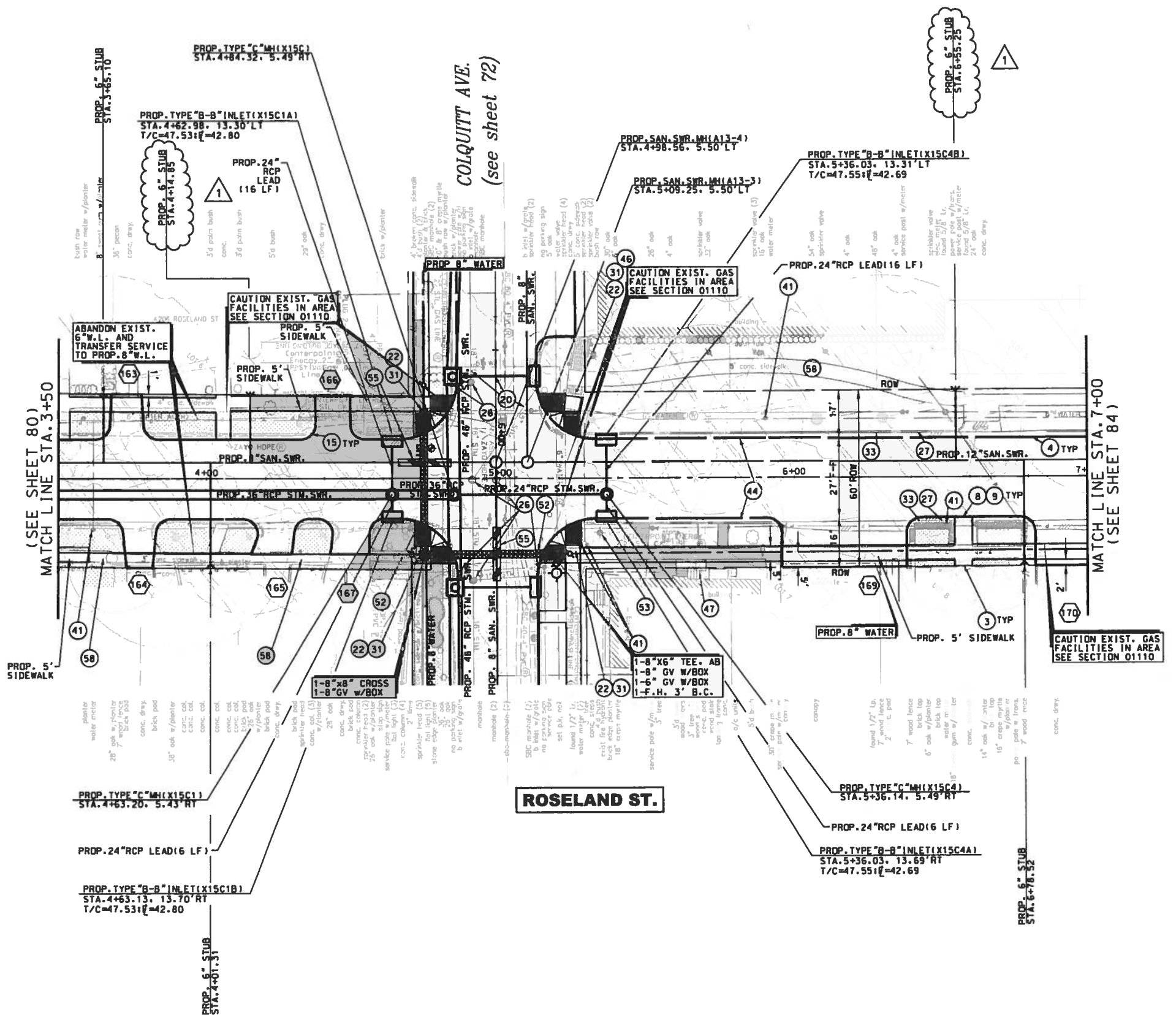
BENCHMARK:
FLOODPLAIN REFERENCE MARK NUMBER 05002S I5 A
TRODOT DISK ON BRIDGE AT HEIGHTS BLVD AND WHITE OAK BAYOU LOCATED ON UPSTREAM CONCRETE WALL, ON SW CORNER OF S-BOUND BRIDGE, S. OF STREAM CENTER IN KEYMAP 493E IN THE WHITE OAK WATERSHED NEAR STREAM E100-00-00
ELEV.=39.93 FEET NAVD 1988, 2001 ADJUSTED

TEMPORARY BENCHMARKS:

TBM #	STA / OFF	DESC	ELEV



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NEIGHBORHOOD STREET RECONSTRUCTION PROJECT 467

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STA. 3+50 TO STA. 7+00

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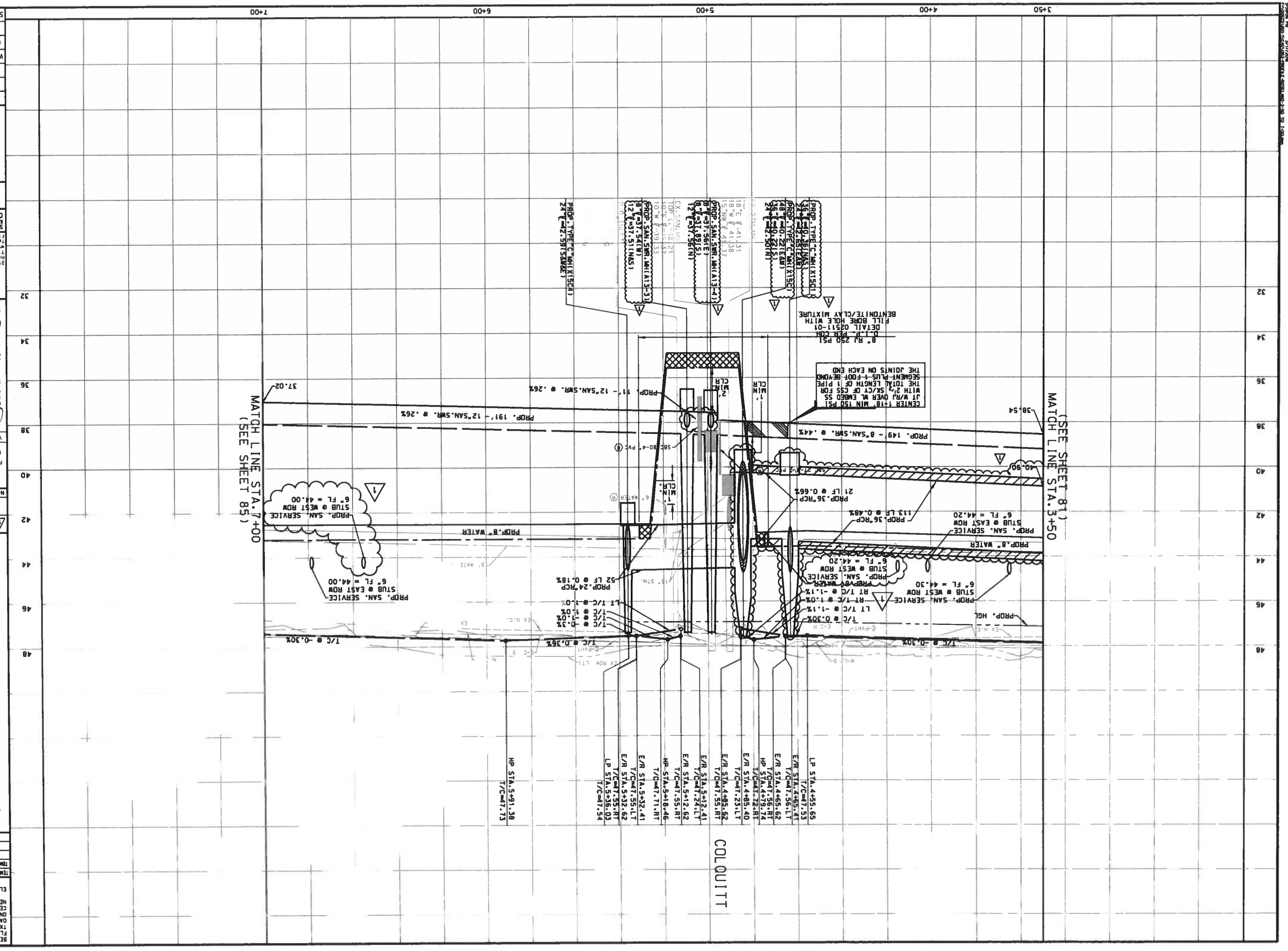

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Van De Wiele & Vogler Incorporated
2925 Briarpark, Suite 275
Houston, Texas 77042-3778
713/782-0082
www.vandewiele-eng.com
Texas Professional Engineering Firm Registration No. F148

SURVEYED BY
AUD & ASSOCIATES, INC.
C.O.H. FB No. P-5397

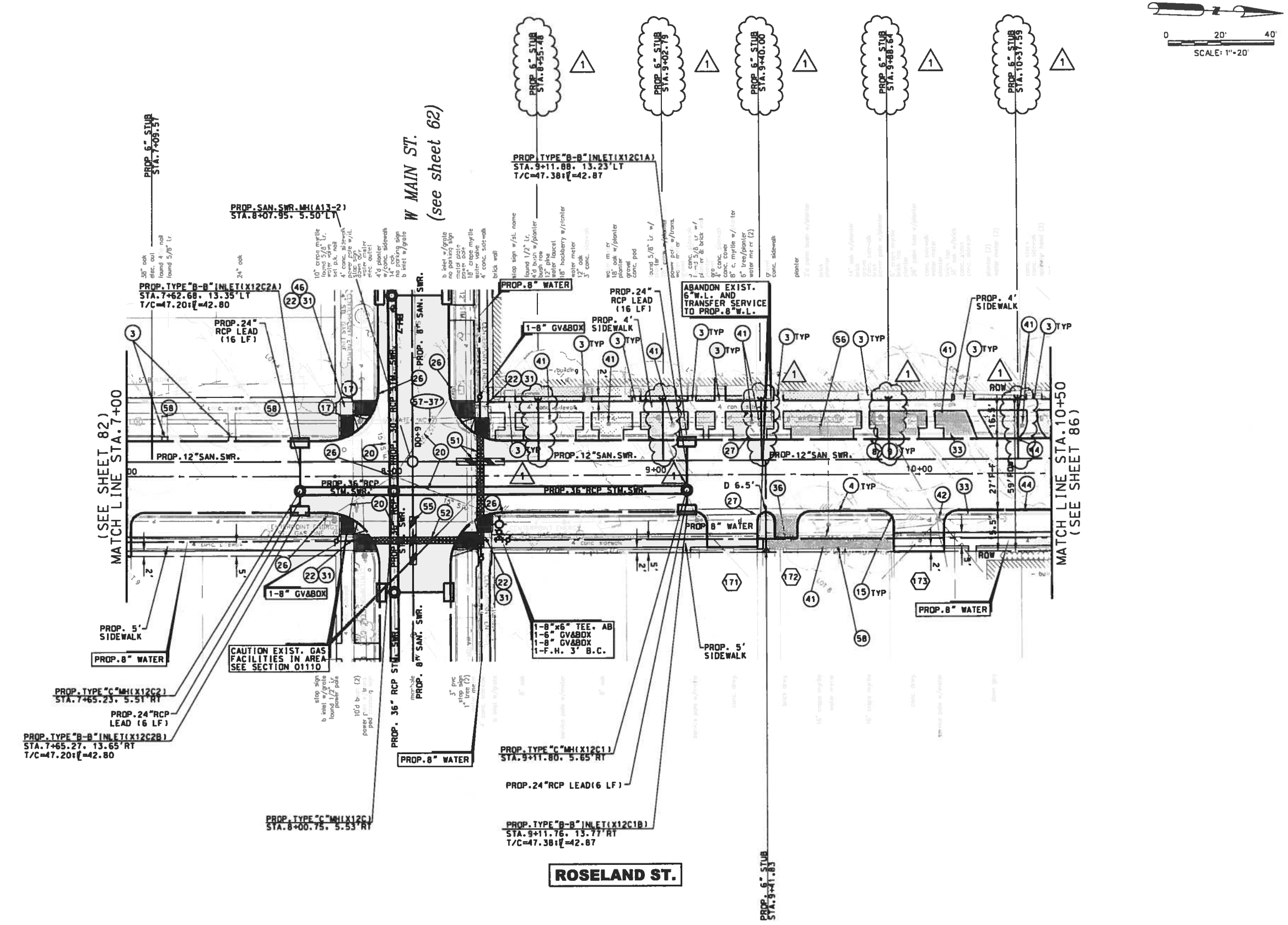
STATE OF TEXAS
MICHAEL ANDREW MARTIN
63282
PROFESSIONAL ENGINEER
12/1/2015

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

NEIGHBORHOOD STREET RECONSTRUCTION PROJECT 467
PROFILE
ROSELAND STREET
STA. 3+50 TO STA. 7+00

MBS NUMBER
N-000400-0001-4
DRAWING SCALE
VERT. 1"=2', HORIZ. 1"=20'
CITY OF HOUSTON PM
BEN BAHSAL, P.E.
SHEET NO. 83 OF 226

P-1576



BENCHMARK:
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ELEV.=39.93 FEET NAVD 1988. 2001 ADJUSTED

TEMPORARY BENCHMARKS:

TBM #	STA / OFF	DESC	ELEV

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STA. 7+00 TO STA. 10+50

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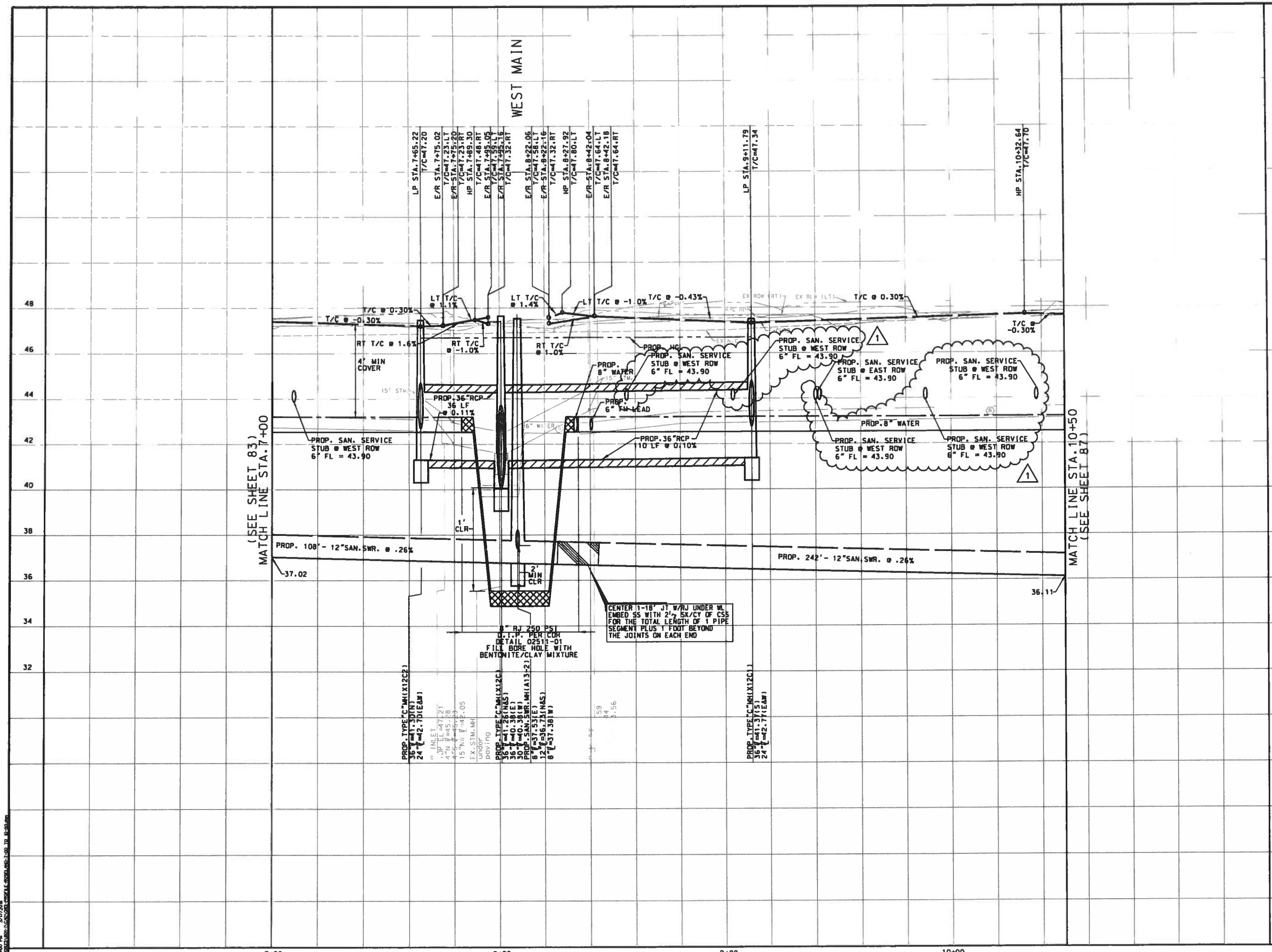

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ELEV.=39.93 FEET NAVD 1988. 2001 ADJUSTED

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SURVEYED BY: KUO & ASSOCIATES, INC. C.O.H. FB No. P-5397

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NEIGHBORHOOD STREET RECONSTRUCTION PROJECT 467

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ROSELAND STREET
STA. 7+00 TO STA. 10+50

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DRAWING SCALE	
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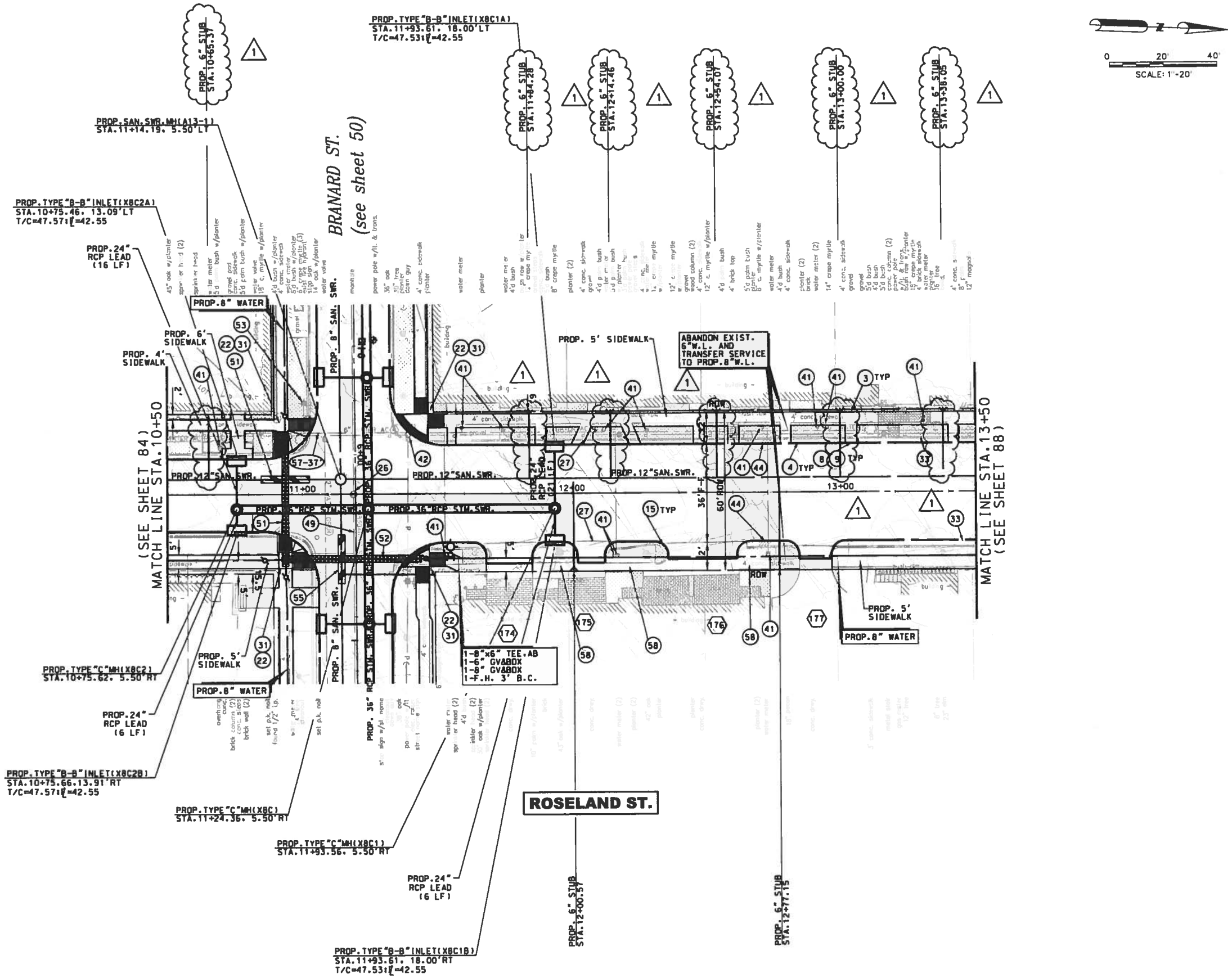

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7/11/16

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

NEIGHBORHOOD STREET RECONSTRUCTION PROJECT 467

PLAN
ROSELAND STREET
STA. 10+50 TO STA. 13+50

WBS NUMBER	
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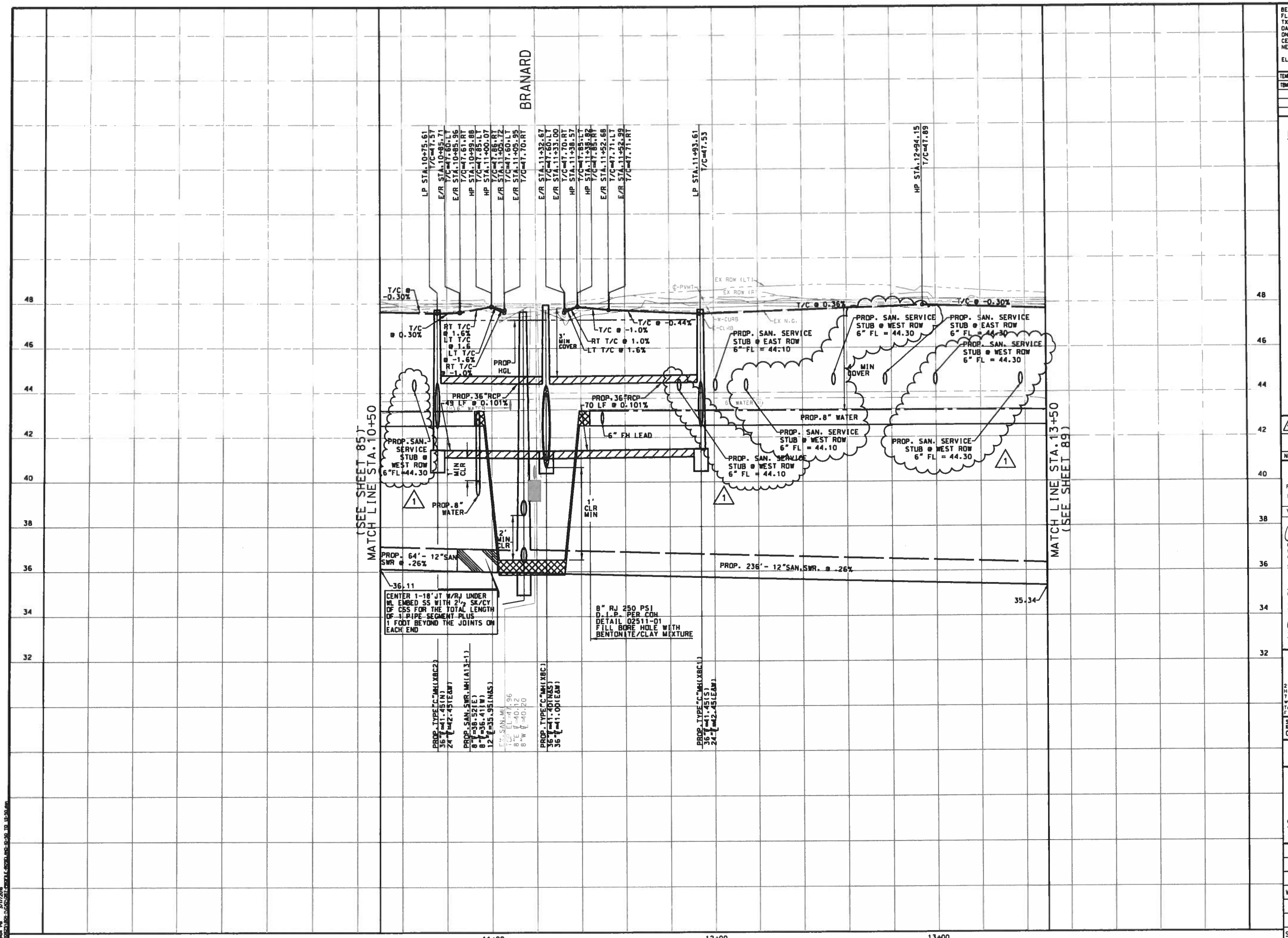

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STATE OF TEXAS MICHAEL ANDREW MARTIN 63282 LICENSED PROFESSIONAL ENGINEER 3/11/11

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RUD & ASSOCIATES, INC.
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CITY OF HOUSTON
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NEIGHBORHOOD STREET RECONSTRUCTION PROJECT 467
PROFILE
ROSELAND STREET
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DRAWING SCALE	VERT. 1"=2' HORIZ. 1"=20'
CITY OF HOUSTON PM	BEN BANSAL, P.E.
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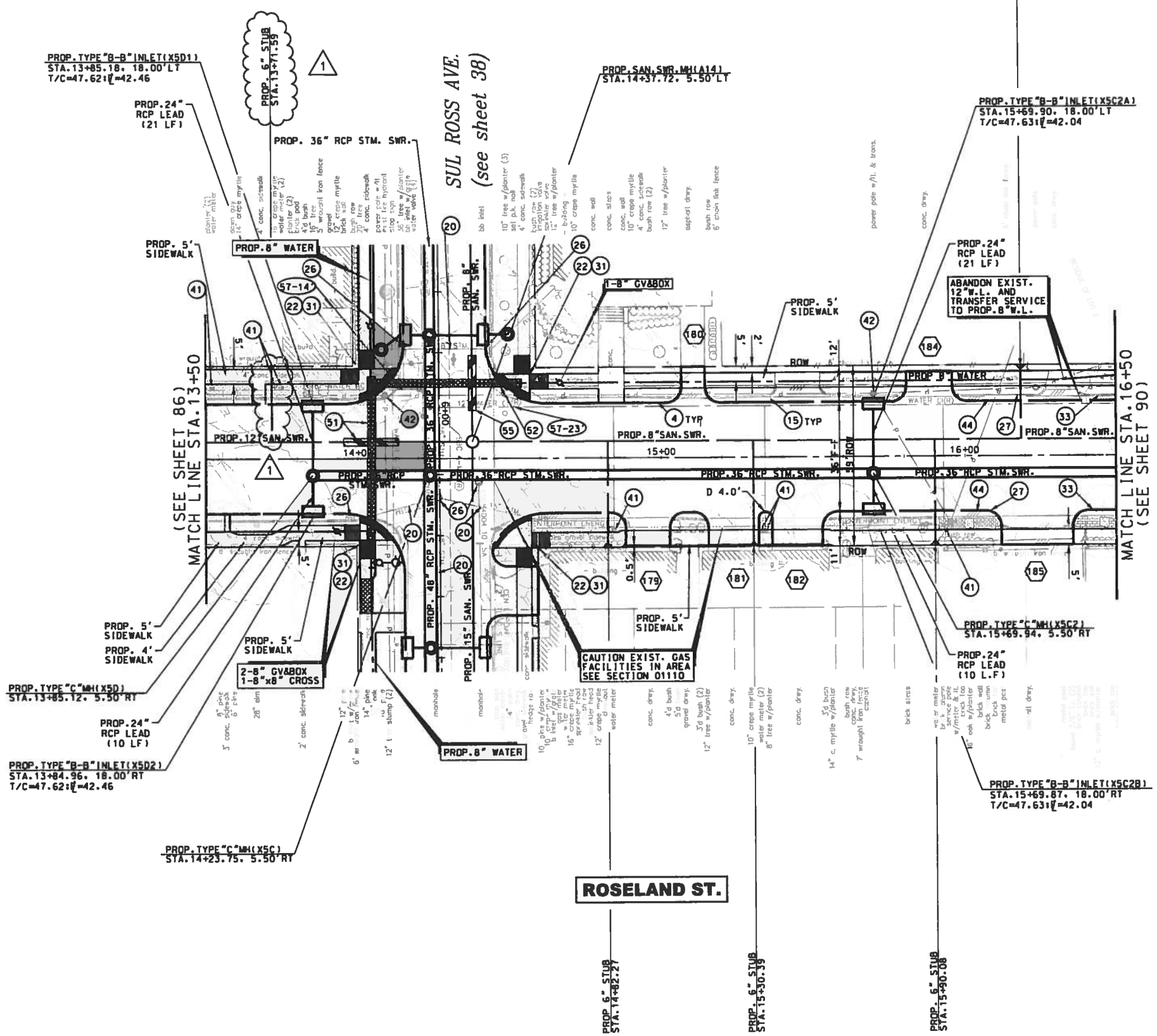

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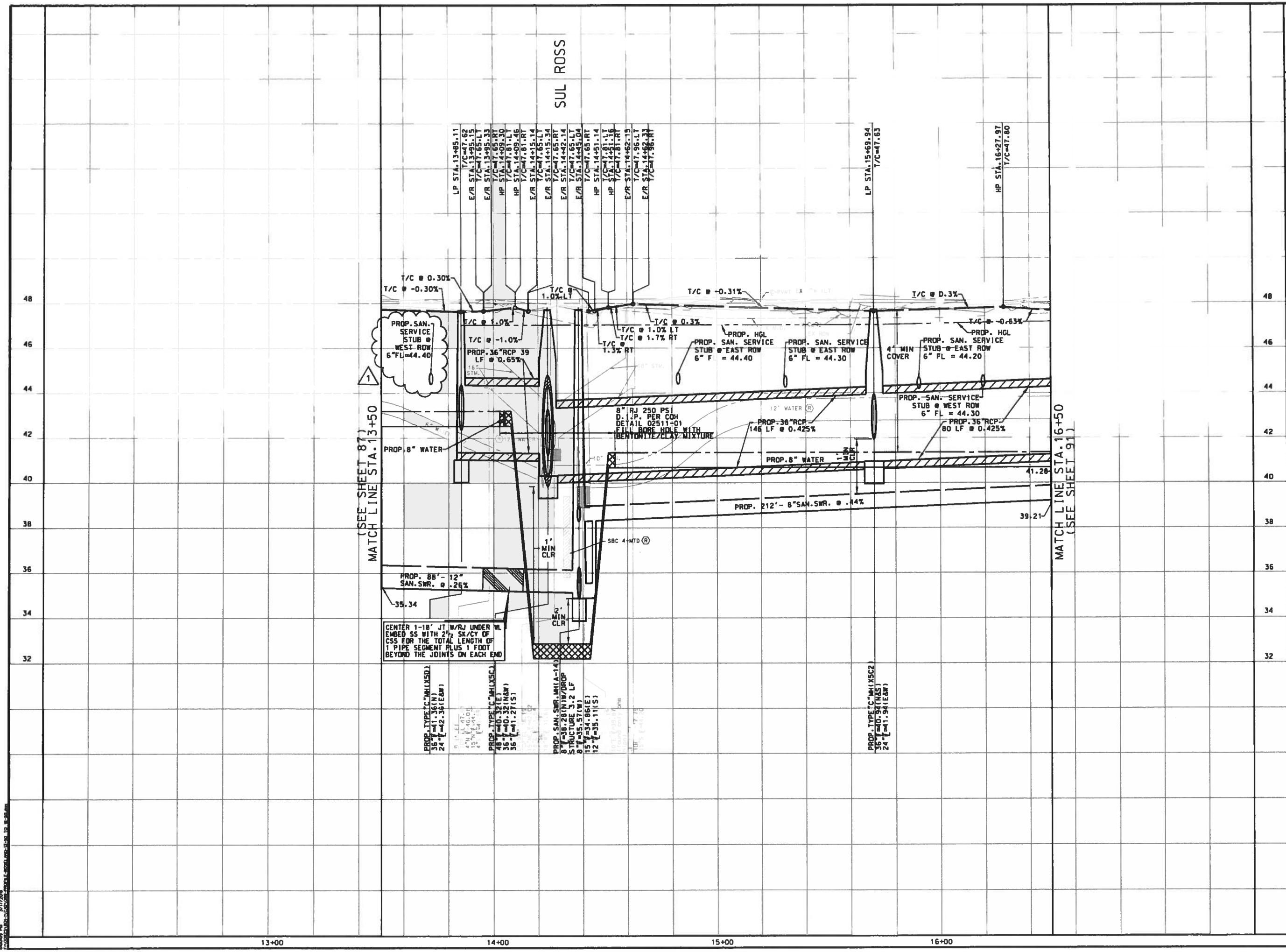

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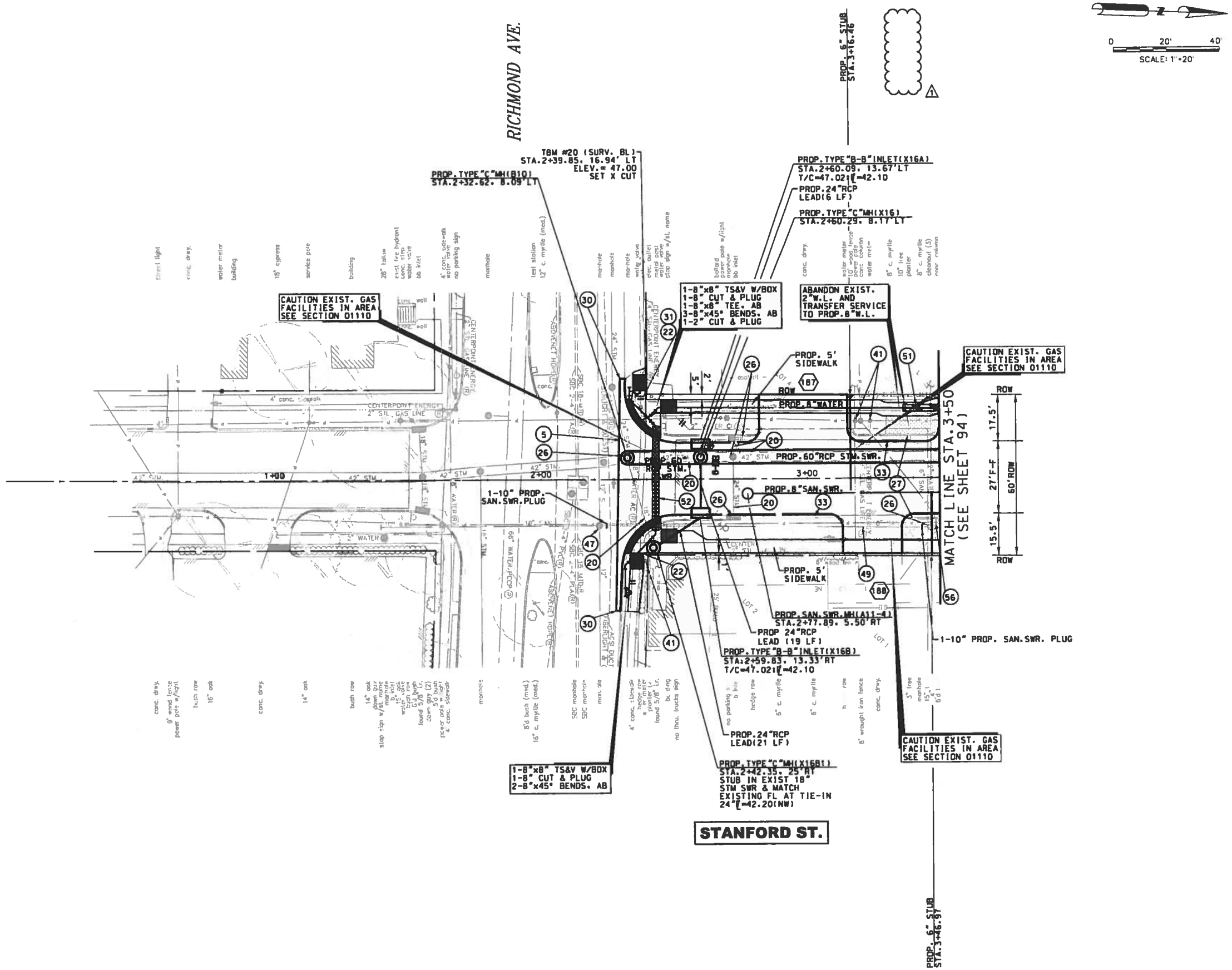

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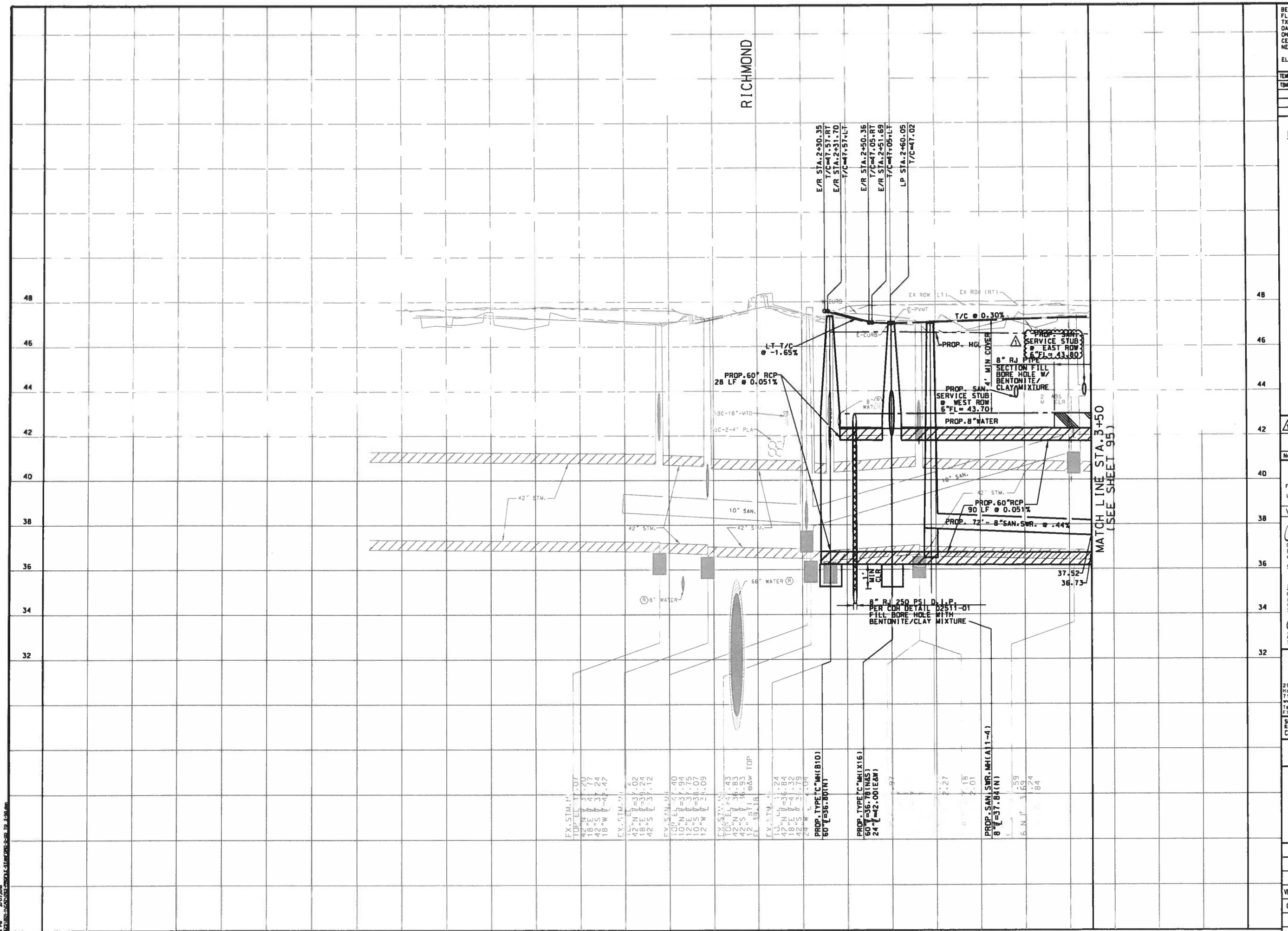

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No.	DATE	REVISIONS	APP.
1	3/11	ADDENDUM #1 SERVICE STUB REVISED	M.A.M.

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VERIFICATION OF PRIVATE UTILITY LINES

A Pickens Date: 12-1-15
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(This signature verifies that you have shownCNP Natural Gas lines correctly – not to be used for conflict verification)(Gas service
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J Caesent Date: 12-1-15
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VanDeWiele & Vogler Incorporated
2925 Briarpark, Suite 275
Houston, Texas 77042-3778
713/782-0042
www.vandewiele-eng.com
Texas Professional Engineering Firm Registration No. F148

STATE OF TEXAS MICHAEL ANDREW MARTIN 63282 LICENSED PROFESSIONAL ENGINEER 3/11/11

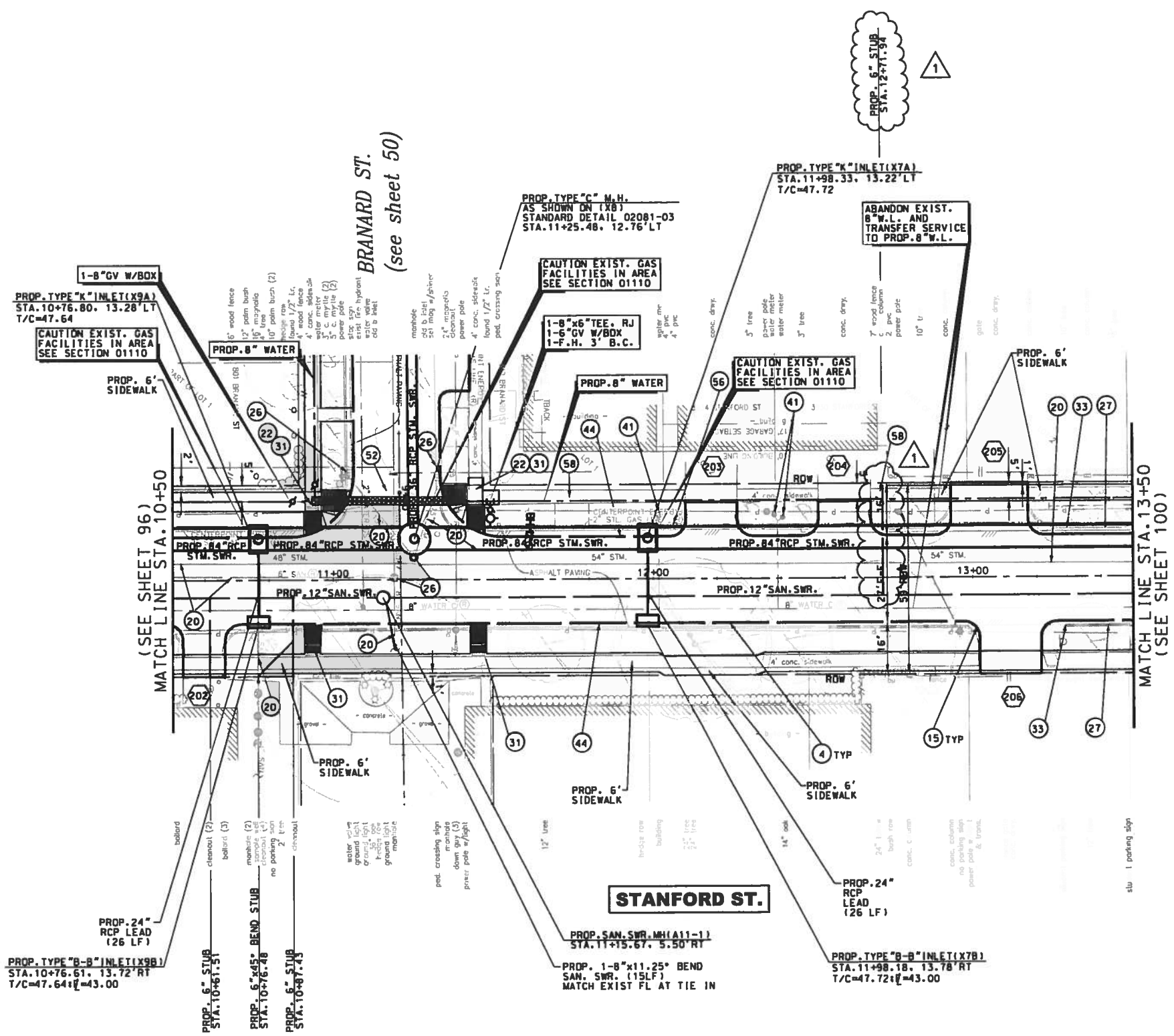
SURVEYED BY:
KUO & ASSOCIATES, INC.
C.O.H. FB No. P-5397

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

NEIGHBORHOOD STREET RECONSTRUCTION PROJECT 467
PROFILE
STANFORD STREET
STA. 0+00 TO STA. 3+50

WBS NUMBER	
N-000400-0001-4	
DRAWING SCALE	
VERT. 1"=2' HORIZ. 1"=20'	
CITY OF HOUSTON PM	
BEN BANSAL, P.E.	
SHEET No. 93 OF 226	

P-1576



0 20' 40'
SCALE: 1"=20'

BENCHMARK:
FLOODPLAIN REFERENCE MARK NUMBER 050025 IS A TXDOT DISK ON BRIDGE AT HEIGHTS BLVD AND WHITE OAK BAYOU LOCATED ON UPSTREAM. CONCRETE WALK. ON SW CORNER OF S-BOUND BRIDGE. S. OF STREAM CENTER IN KEYMAP 493E IN THE WHITE OAK WATERSHED NEAR STREAM E100-00-00

ELEV.=39.93 FEET NAVD 1988. 2001 ADJUSTED

TEMPORARY BENCHMARKS:

TBM #	STA / OFF	DESC	ELEV

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5/11/11

SURVEYED BY:
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CITY OF HOUSTON
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NEIGHBORHOOD STREET
RECONSTRUCTION PROJECT 467
PLAN
STANFORD STREET
STA.10+50 TO STA.13+50

WBS NUMBER	
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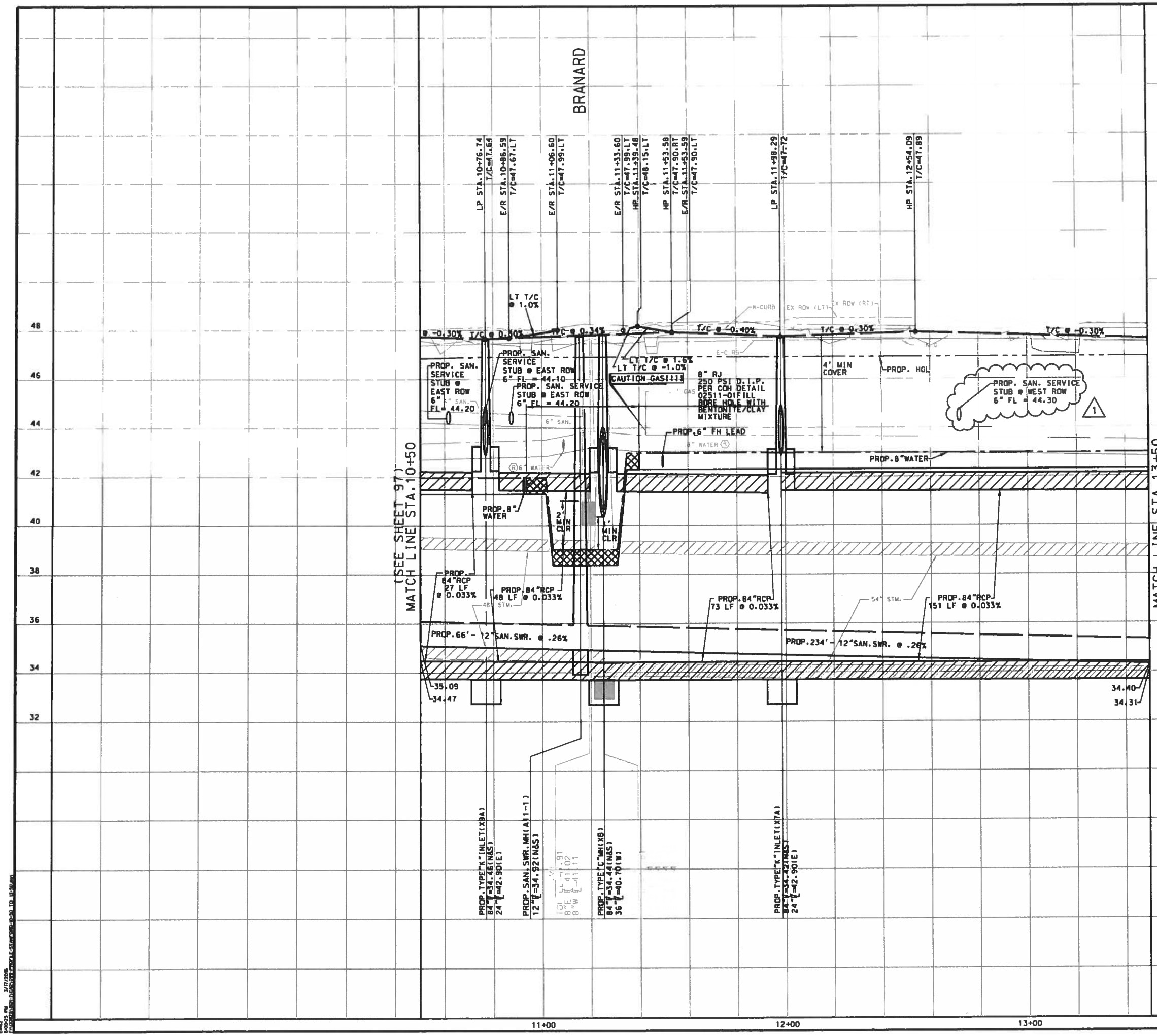

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STA. 10+50 TO STA. 13+50

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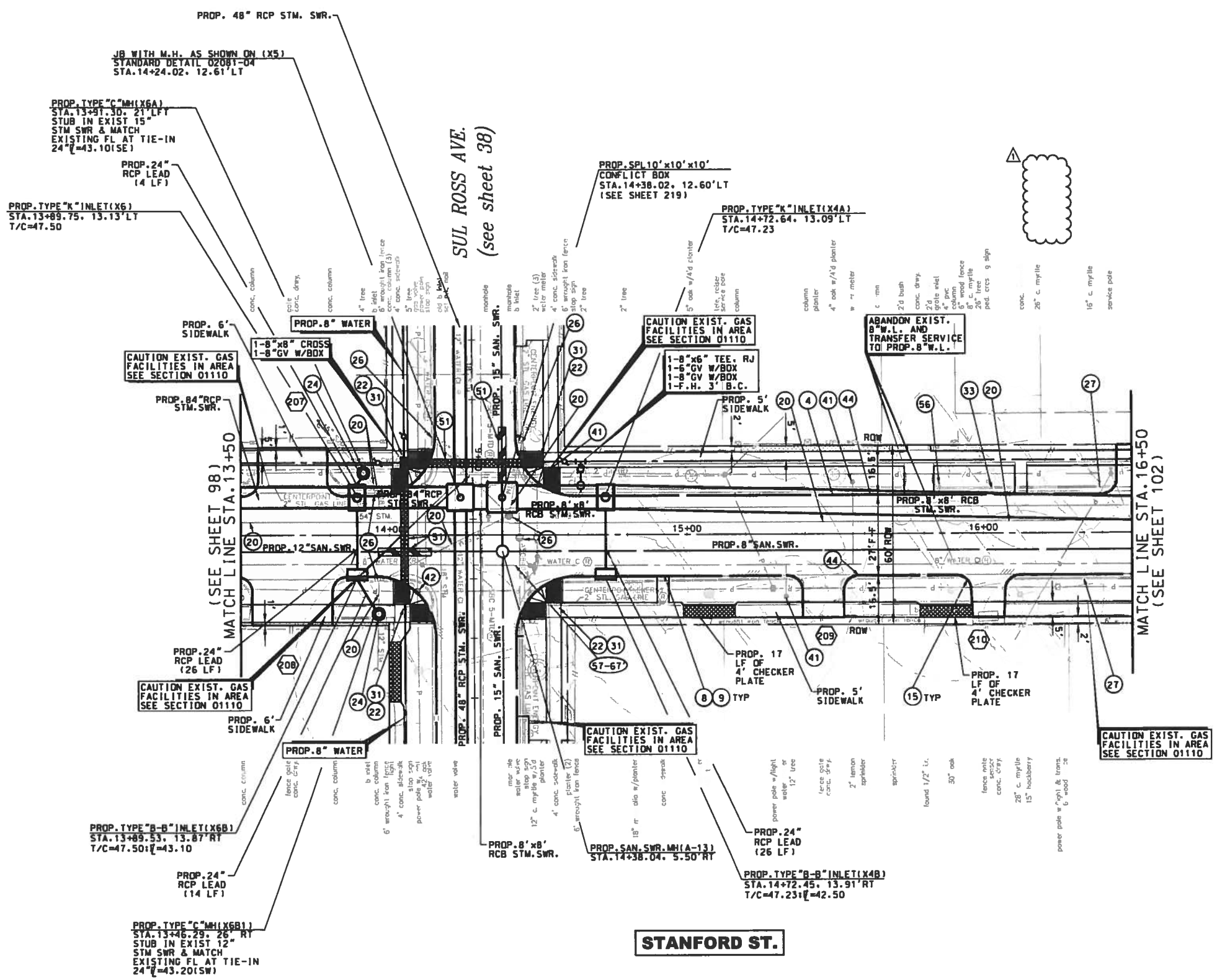

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3/9/16

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RECONSTRUCTION PROJECT 467

PLAN
STANFORD STREET
STA.13+50 TO STA.16+50

WBS NUMBER
N-000400-0001-4
DRAWING SCALE
VERT. 1"=2' HORIZ. 1"=20'
CITY OF HOUSTON PM
BEN BANSAL, P.E.
SHEET No. 100 OF 226

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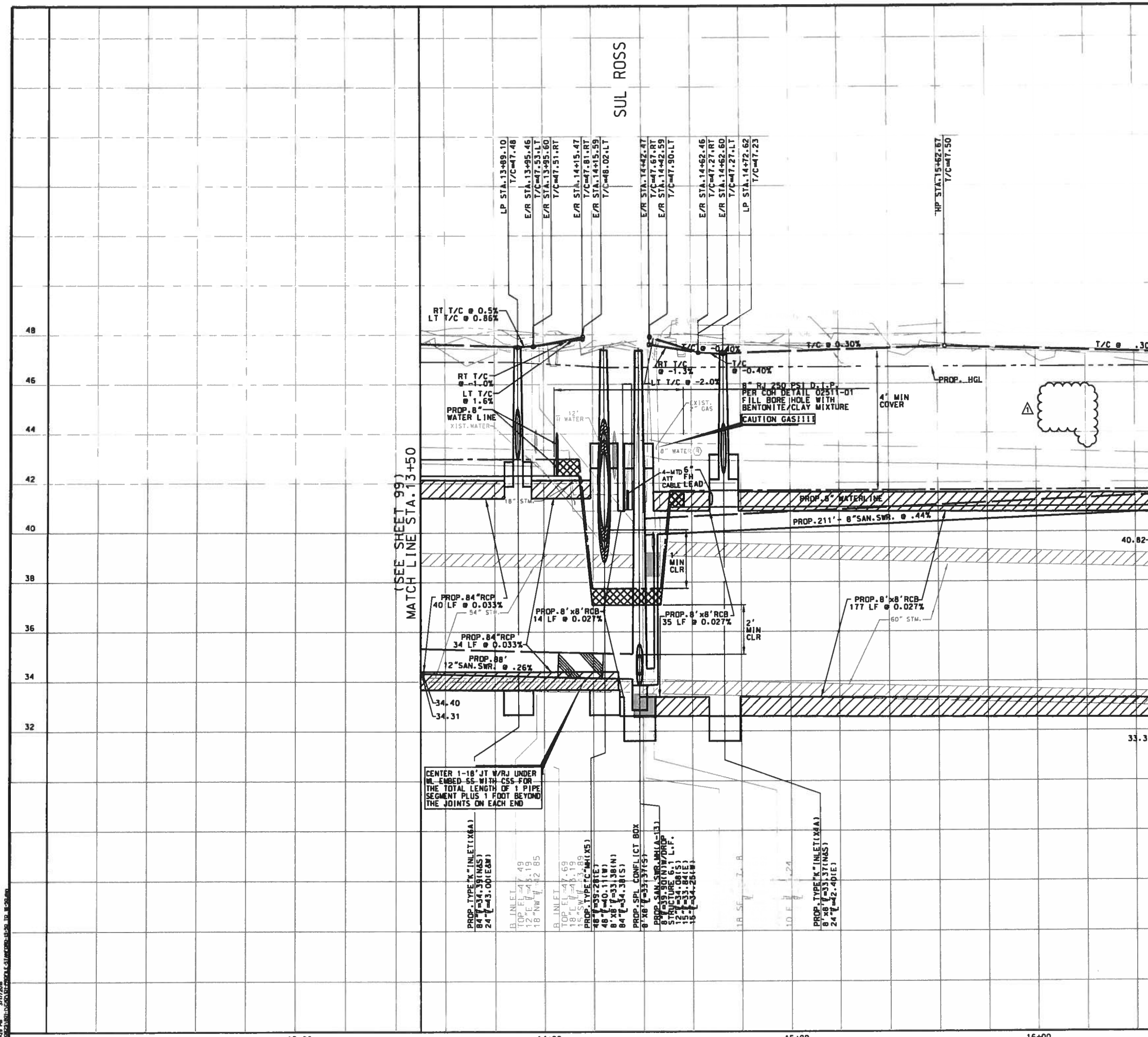

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ELEV.=39.93 FEET NAVD 1988. 2001 ADJUSTED

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SURVEYED BY:
RUD & ASSOCIATES, INC.
C.O.H. FB No. P-5397

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

NEIGHBORHOOD STREET RECONSTRUCTION PROJECT 467
PROFILE
STANFORD STREET
STA. 13+50 TO STA. 16+50

WBS NUMBER	
N-000400-0001-4	
DRAWING SCALE	
VERT. 1"=2' HORIZ. 1"=20'	
CITY OF HOUSTON PM	
BEN BANSAL, P.E.	
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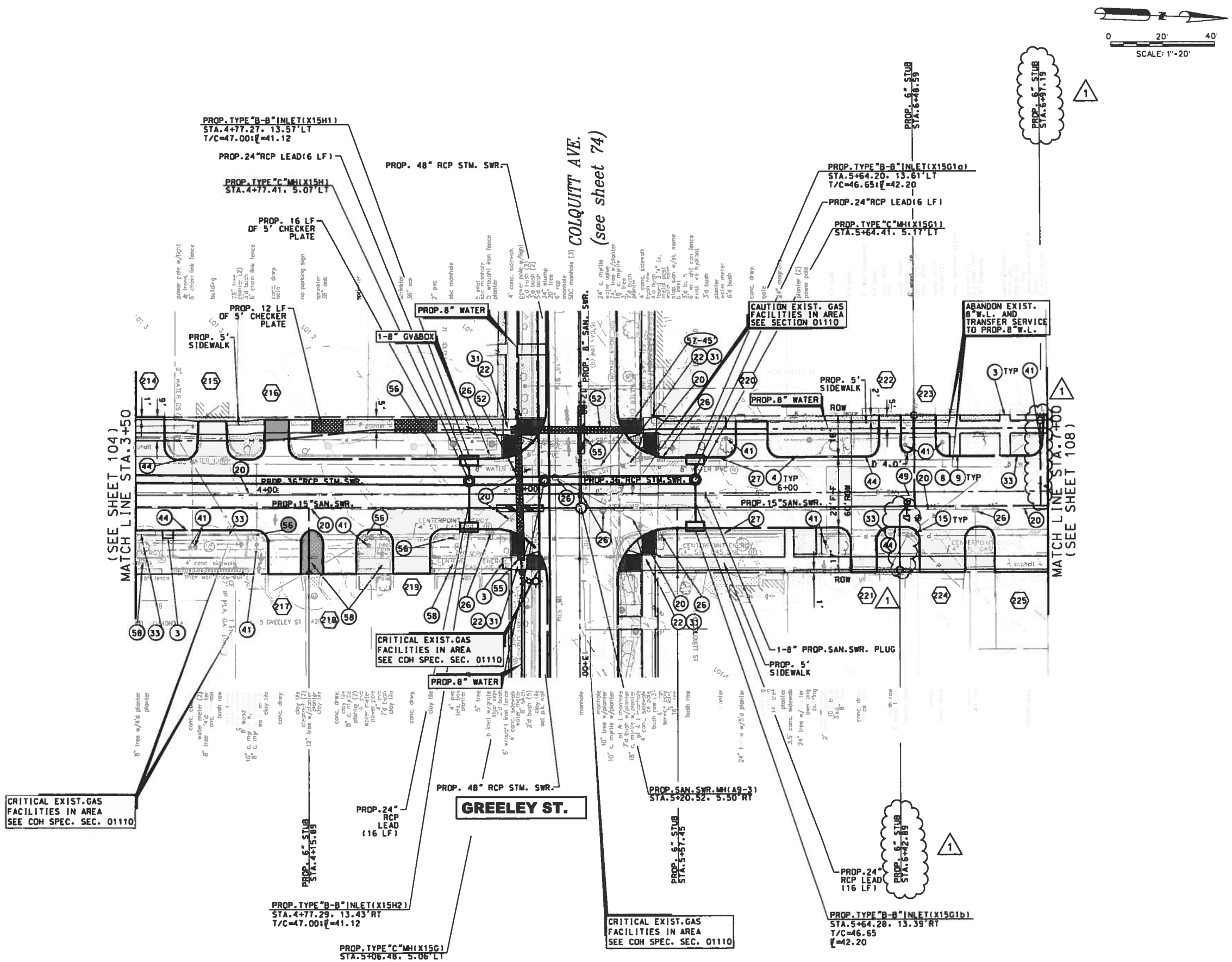

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ELEV.=39.93 FEET NAVD 1988. 2001 ADJUSTED

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NEIGHBORHOOD STREET RECONSTRUCTION PROJECT 467

PLAN
GREELEY STREET
STA. 3+50 TO STA. 7+00

WBS NUMBER	
N-000400-0001-4	
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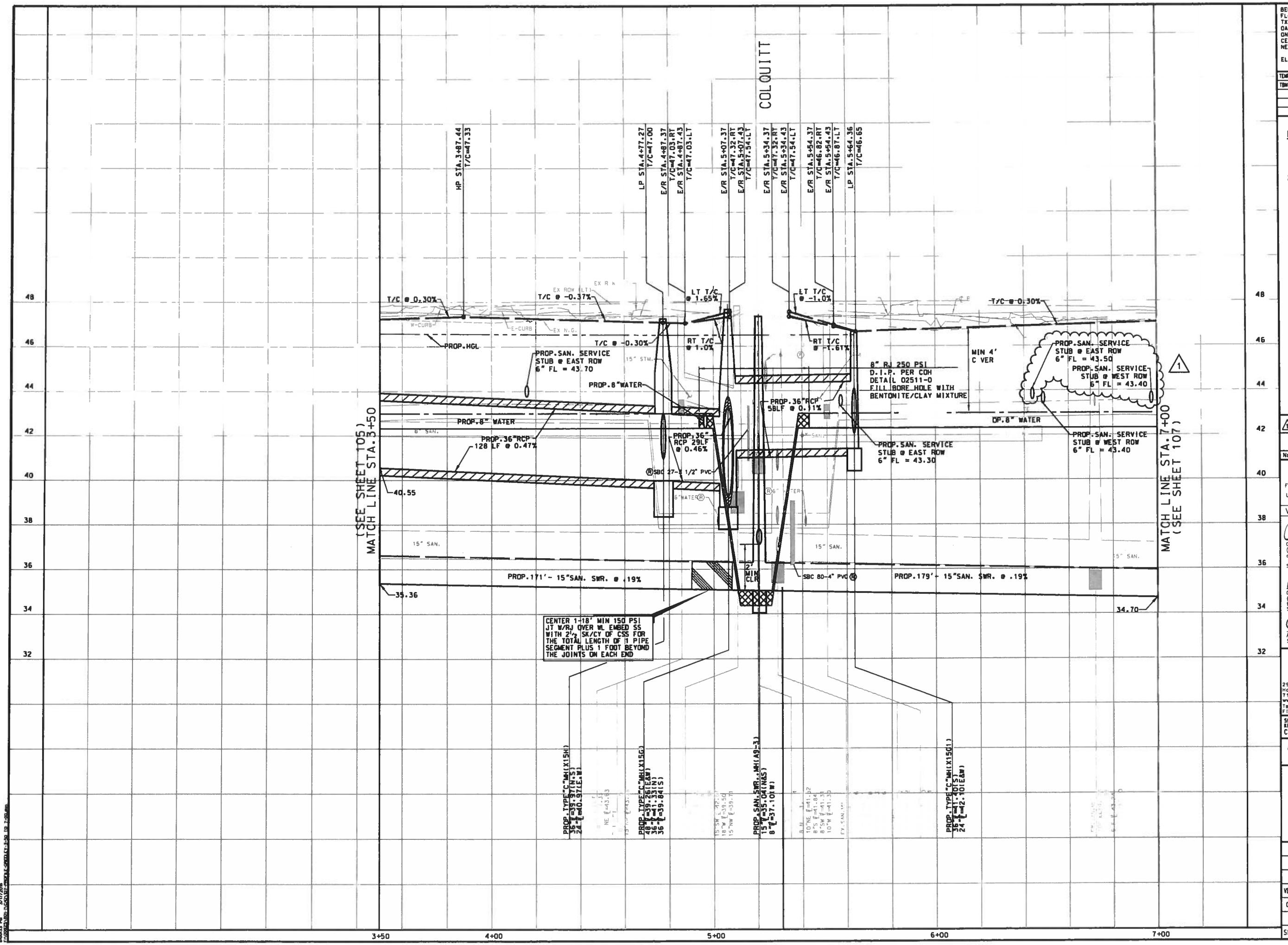

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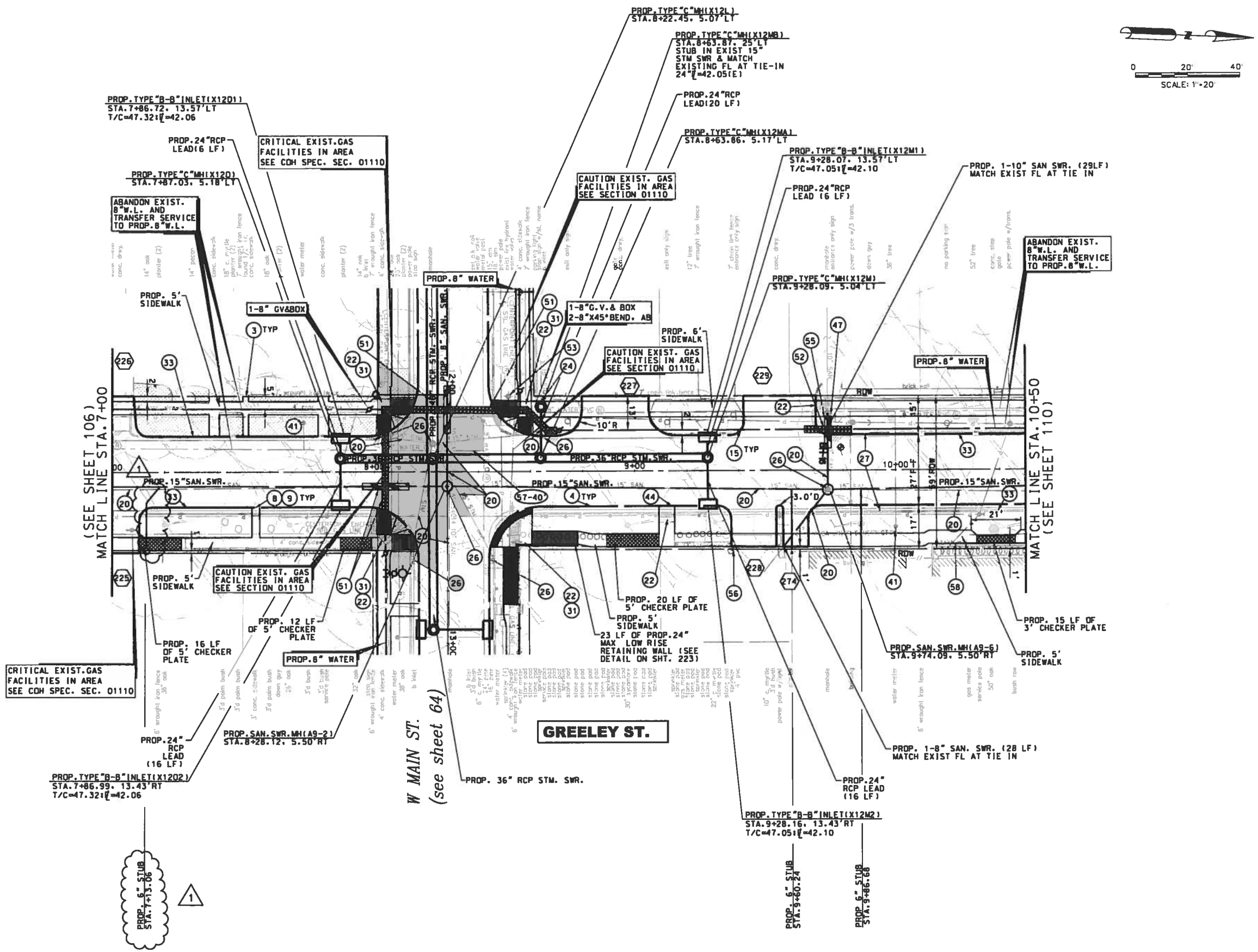

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Signature valid for one year.

VanDeWiele & Vogler Incorporated
2925 Briarpark, Suite 275
Houston, Texas 77042-3778
713/782-0042
www.vandewiele-eng.com
Texas Professional Engineering Firm Registration No. F148

STATE OF TEXAS
MICHAEL ANDREW MARTIN
63282
LICENSED PROFESSIONAL ENGINEER
3/11/11

SURVEYED BY:
KUO & ASSOCIATES, INC.
C.O.H. FB No. P-5397

CITY OF HOUSTON

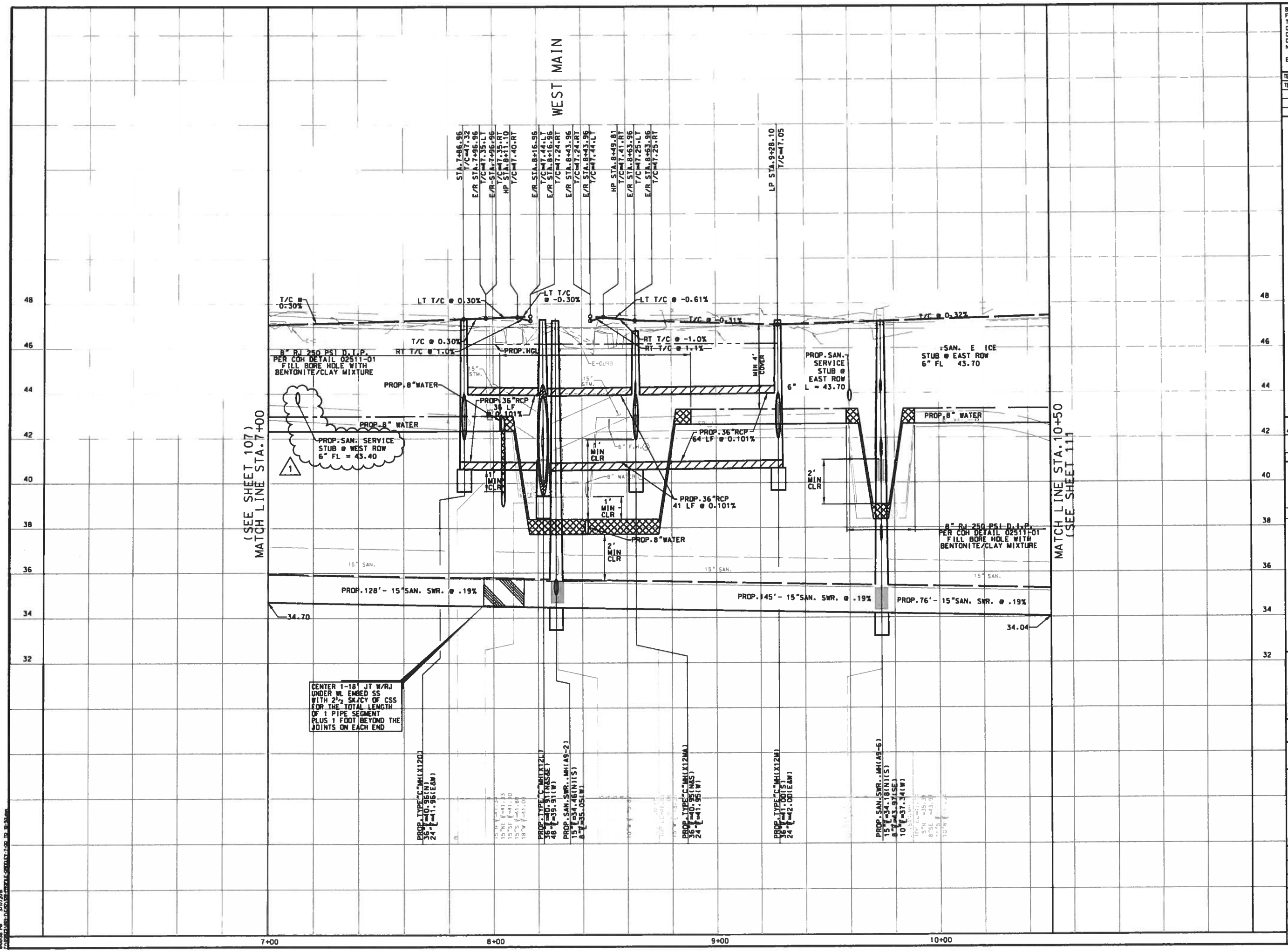
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

NEIGHBORHOOD STREET
RECONSTRUCTION PROJECT 467

PLAN
GREELEY STREET
STA. 7+00 TO STA. 10+50

WBS NUMBER	
N-000400-0001-4	
DRAWING SCALE	
VERT. 1"=2' HORIZ. 1"=20'	
CITY OF HOUSTON PM	
BEN BANSAL, P.E.	
SHEET No. 108 OF 226	

P-1576



BENCHMARK:
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ELEV.=39.93 FEET NAVD 1988. 2001 ADJUSTED

TEMPORARY BENCHMARKS:

TBM #	STA / OFF	DESC	ELEV

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No.	DATE	REVISIONS	APP.
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STATE OF TEXAS MICHAEL ANDREW MARTIN 63282 LICENSED PROFESSIONAL ENGINEER 5/10/16

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NEIGHBORHOOD STREET RECONSTRUCTION PROJECT 467

PROFILE
GREELEY STREET
STA. 7+00 TO STA. 10+50

WBS NUMBER
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DRAWING SCALE
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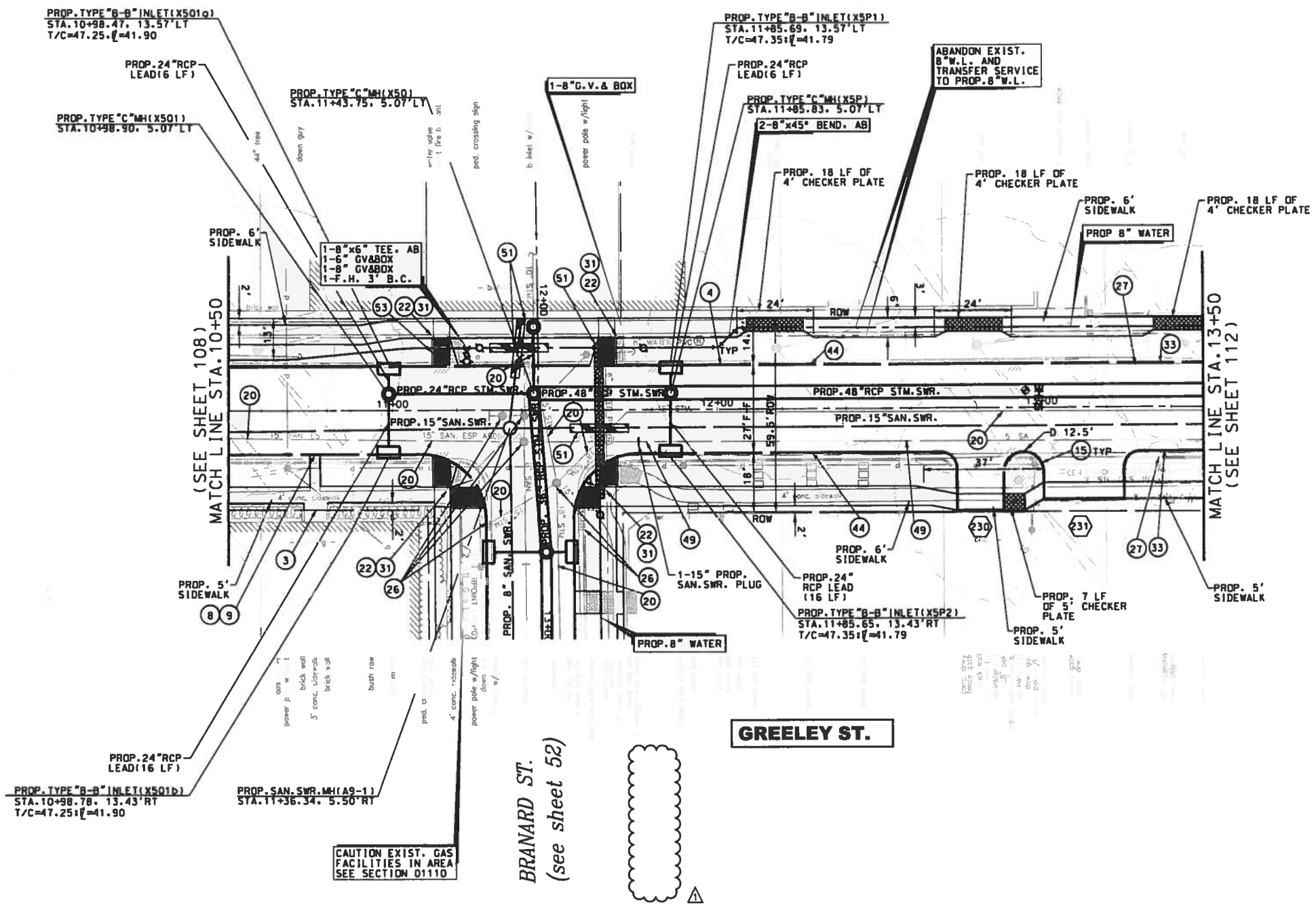

0 20' 40'
SCALE: 1"=20'

NOTE: RELOCATE A 4-INCH WATER METER AT 700 W. MAIN STREET FOR THE HIGH SCHOOL OF THE PERFORMING AND VISUAL ARTS AND INSTALL A NEW 4-INCH SERVICE CONNECTION.

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ELEV.=39.93 FEET NAVD 1988. 2001 ADJUSTED

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TBM #	STA / OFF	DESC	ELEV

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STA.10+50 TO STA.13+50

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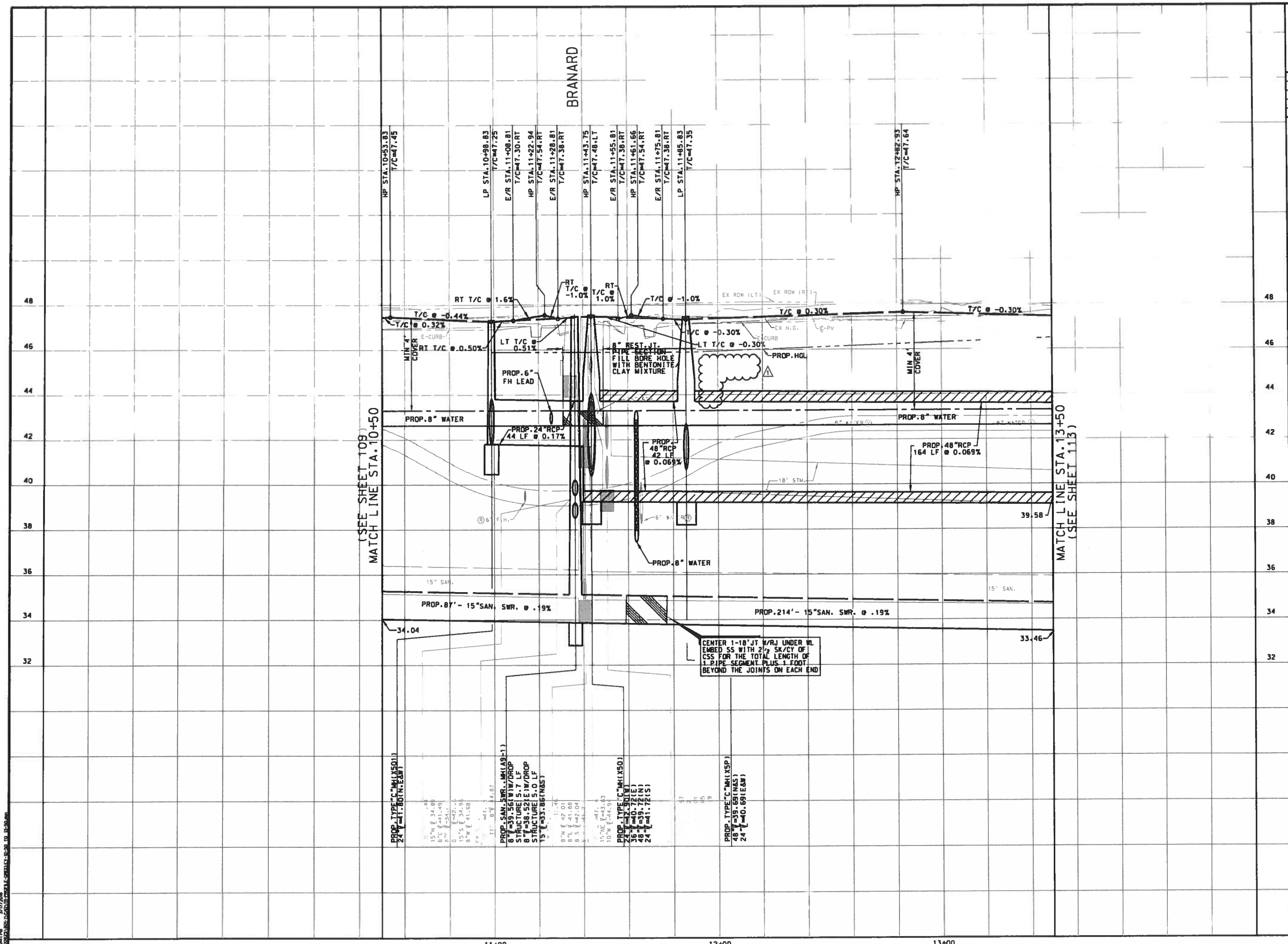

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NEIGHBORHOOD STREET RECONSTRUCTION PROJECT 467

PROFILE
GREELEY STREET
STA. 10+50 TO STA. 13+50

WBS NUMBER	
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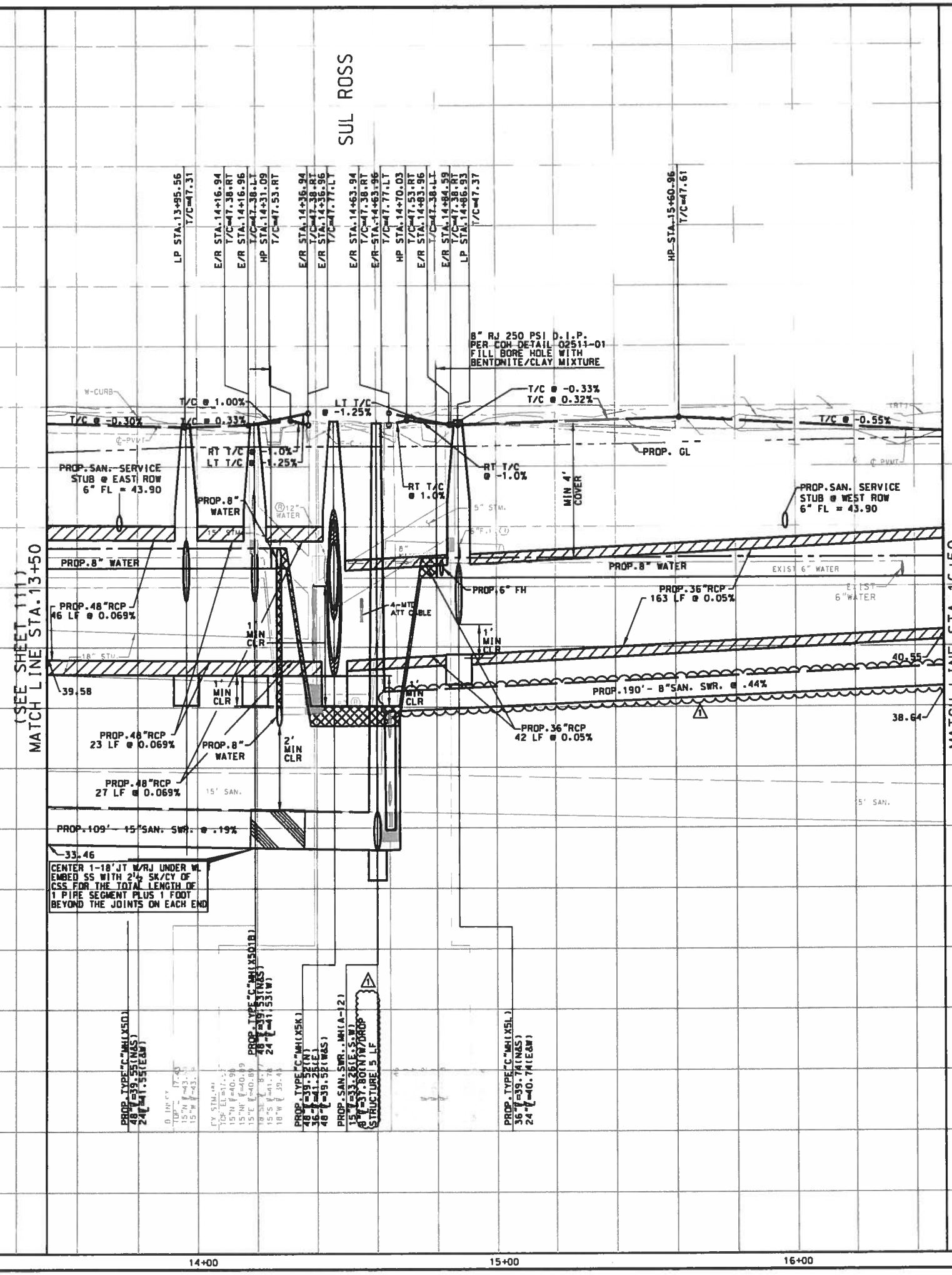

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SURVEYED BY:
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CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

NEIGHBORHOOD STREET RECONSTRUCTION PROJECT 467

PROFILE
GREELEY STREET
STA. 13+50 TO STA. 16+50

WBS NUMBER
N-000400-0001-4
DRAWING SCALE
VERT. 1"=2' HORIZ. 1"=20'
CITY OF HOUSTON PM
BEN BANSAL, P.E.
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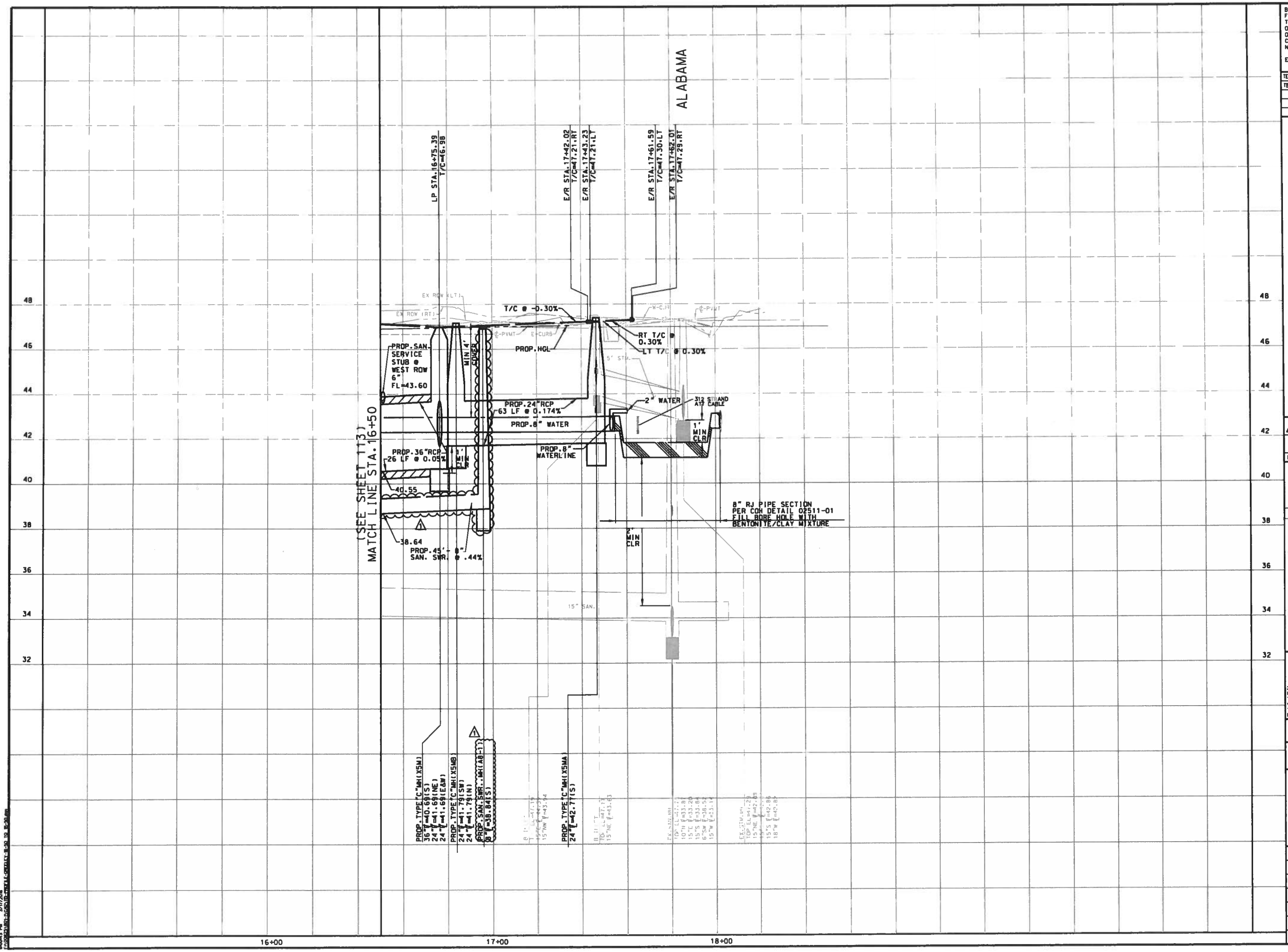

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PROFILE
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STA. 16+50 TO STA. 18+50

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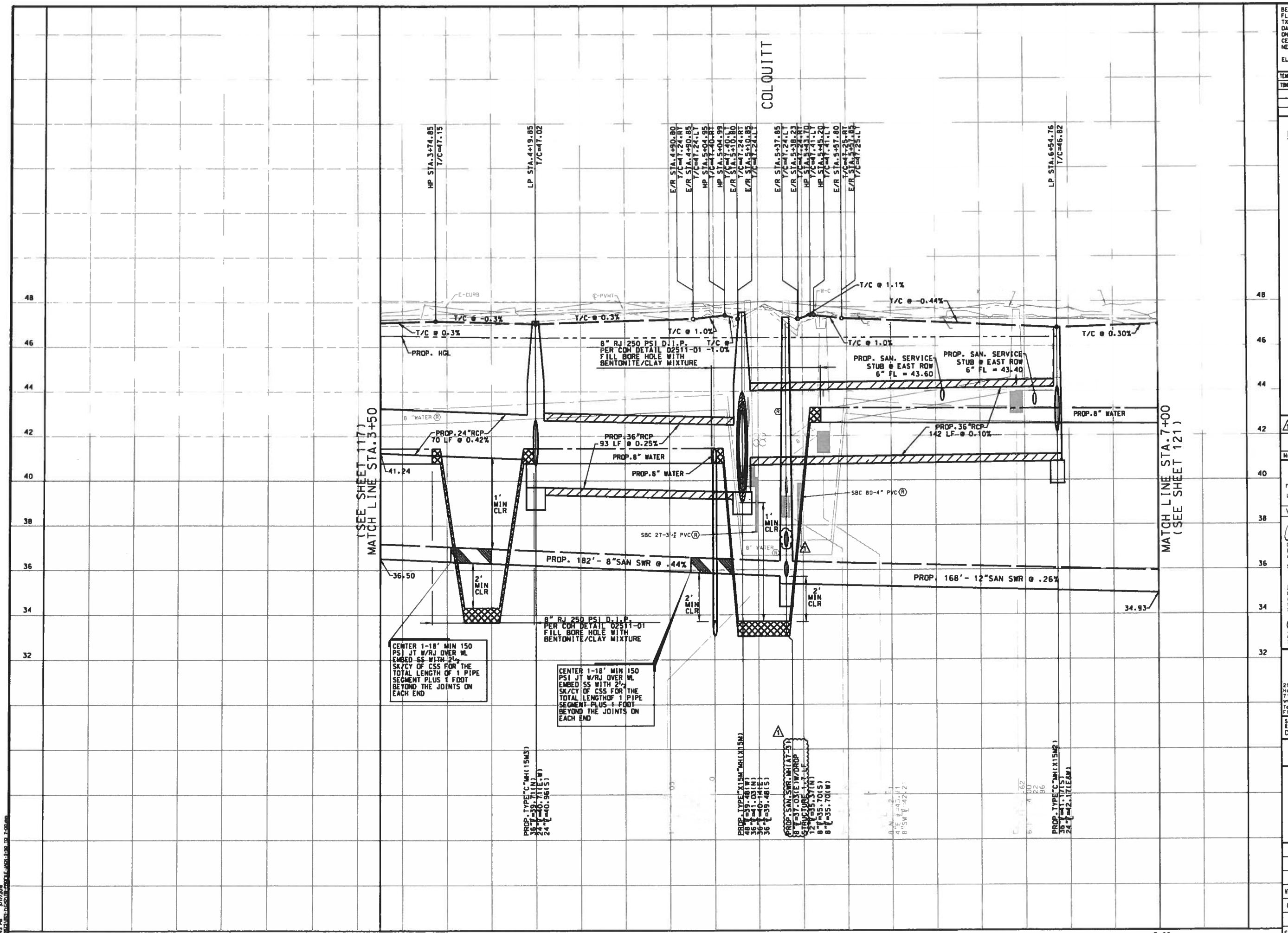

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ELEV.=39.93 FEET NAVD 1988. 2001 ADJUSTED

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NEIGHBORHOOD STREET RECONSTRUCTION PROJECT 467

PROFILE
JACK STREET
STA. 3+50 TO STA. 7+00

WBS NUMBER	
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DRAWING SCALE	
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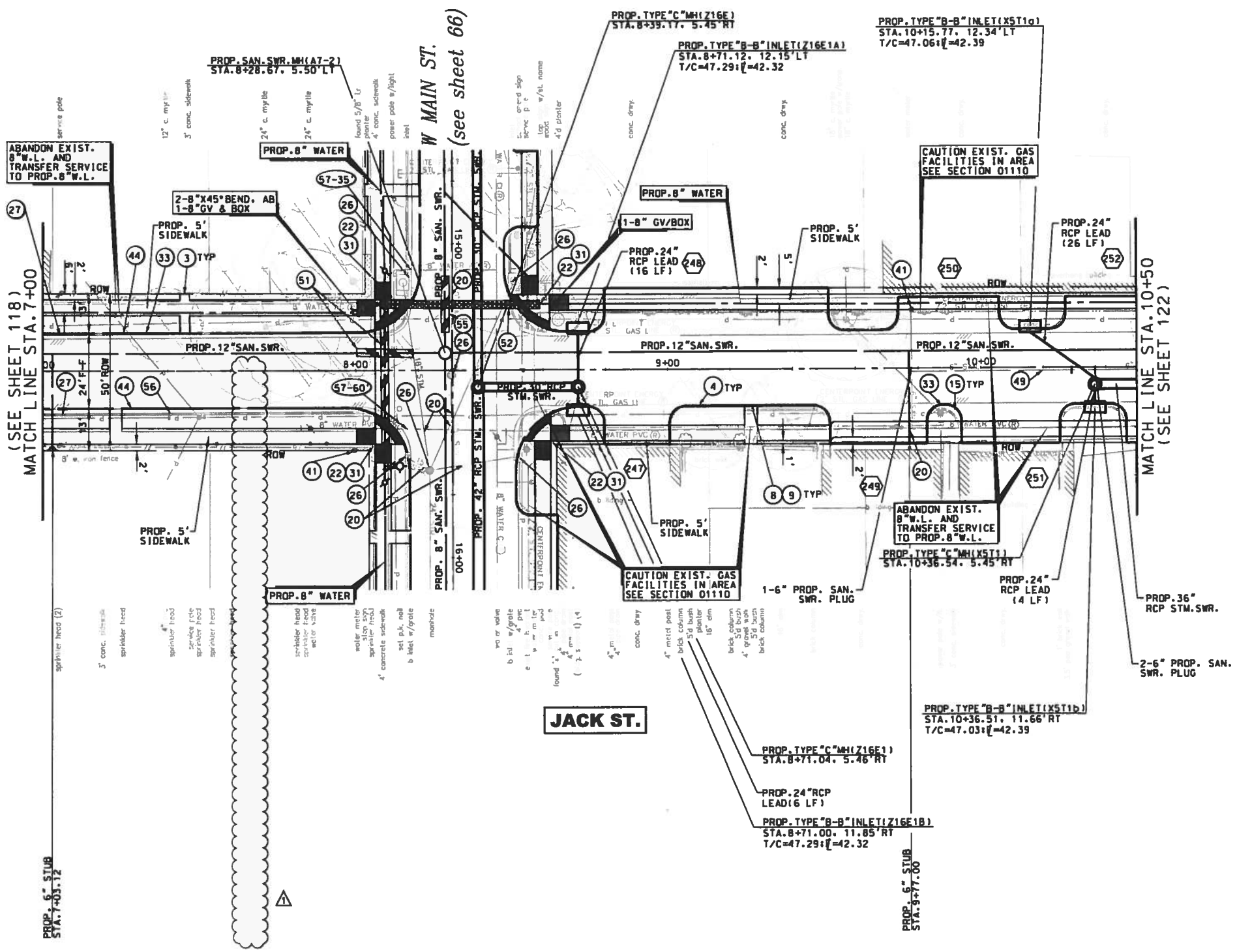

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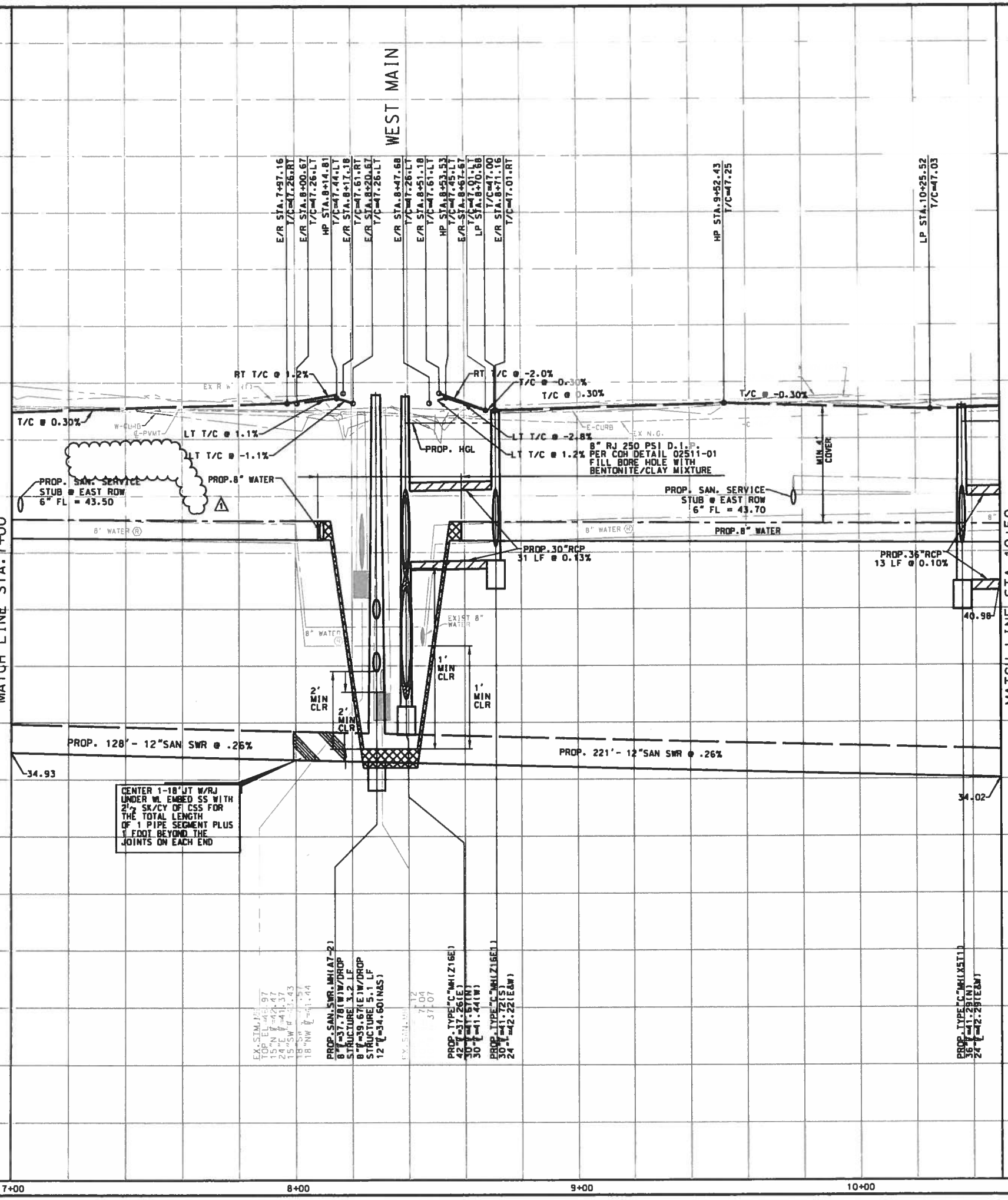

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FLOODPLAIN REFERENCE MARK NUMBER 050025 IS A TXDOT DISK ON BRIDGE AT HEIGHTS BLVD AND WHITE OAK BAYOU LOCATED ON UPSTREAM. CONCRETE WALK. ON SW CORNER OF S-BOUND BRIDGE. S. OF STREAM CENTER IN KEYMAP 493E IN THE WHITE OAK WATERSHED NEAR STREAM E100-00-00

ELEV.=39.93 FEET NAVD 1988. 2001 ADJUSTED

TEMPORARY BENCHMARKS:

TBM #	STA / OFF	DESC	ELEV

NOTES:

1. AT&T TEXAS/SWBT MANHOLES TO BE ADJUSTED TO NEW GRADE BY AT&T. CONTRACTOR TO COORDINATE.
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3. EXISTING PVC YARD DRAINAGE AND SPRINKLERS TO BE REMOVED AND REPLACED.
4. ROADWAY INTERSECTION RADII SHALL BE 20' UNLESS OTHERWISE NOTED ON THE PLAN. DRIVEWAY RADII 5' UNLESS OTHERWISE NOTED ON THE TYPICAL DETAIL PLAN.
5. EXISTING SIGNS EXCEPT STOP SIGNS TO BE REMOVED. SALVAGED AND REPLACED.

No.	DATE	REVISIONS	APP.
1	3/11	ADDENDUM #1 SERVICE STUB REVISED	M.A.M

TO ARRANGE FOR LINES TO BE TURNED OFF OR MOVED, CALL CENTERPOINT ENERGY AT 713-207-2222.

NOTICE:

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VERIFICATION OF PRIVATE UTILITY LINES

A Pickens Date: 12-1-15
CenterPoint Energy/Natural Gas Facilities Verification ONLY (This signature verifies that you have shown CNP Natural Gas lines correctly – not to be used for conflict verification)(Gas service
Signature valid for six months.

A Pickens Date: 12-1-15
CenterPoint Energy/Underground Electric Facilities Verification ONLY (This signature verifies existing underground facilites – not to be used for conflict verification.)
Signature valid for six months.

J Caesar Date: 12-1-15
Approved for AT&T Texas/SWBT underground conduit facilities only. Signature valid for one year.

VanDeWiele & Vogler Incorporated
2925 Briarpark, Suite 275
Houston, Texas 77042-3778
713/782-0042
www.vandewiele-eng.com
Texas Professional Engineering Firm Registration No. F148

STATE OF TEXAS MICHAEL ANDREW MARTIN 63282 LICENSED PROFESSIONAL ENGINEER 5/11/15

SURVEYED BY:
KUO & ASSOCIATES, INC.
C.O.H. FB No. P-5397

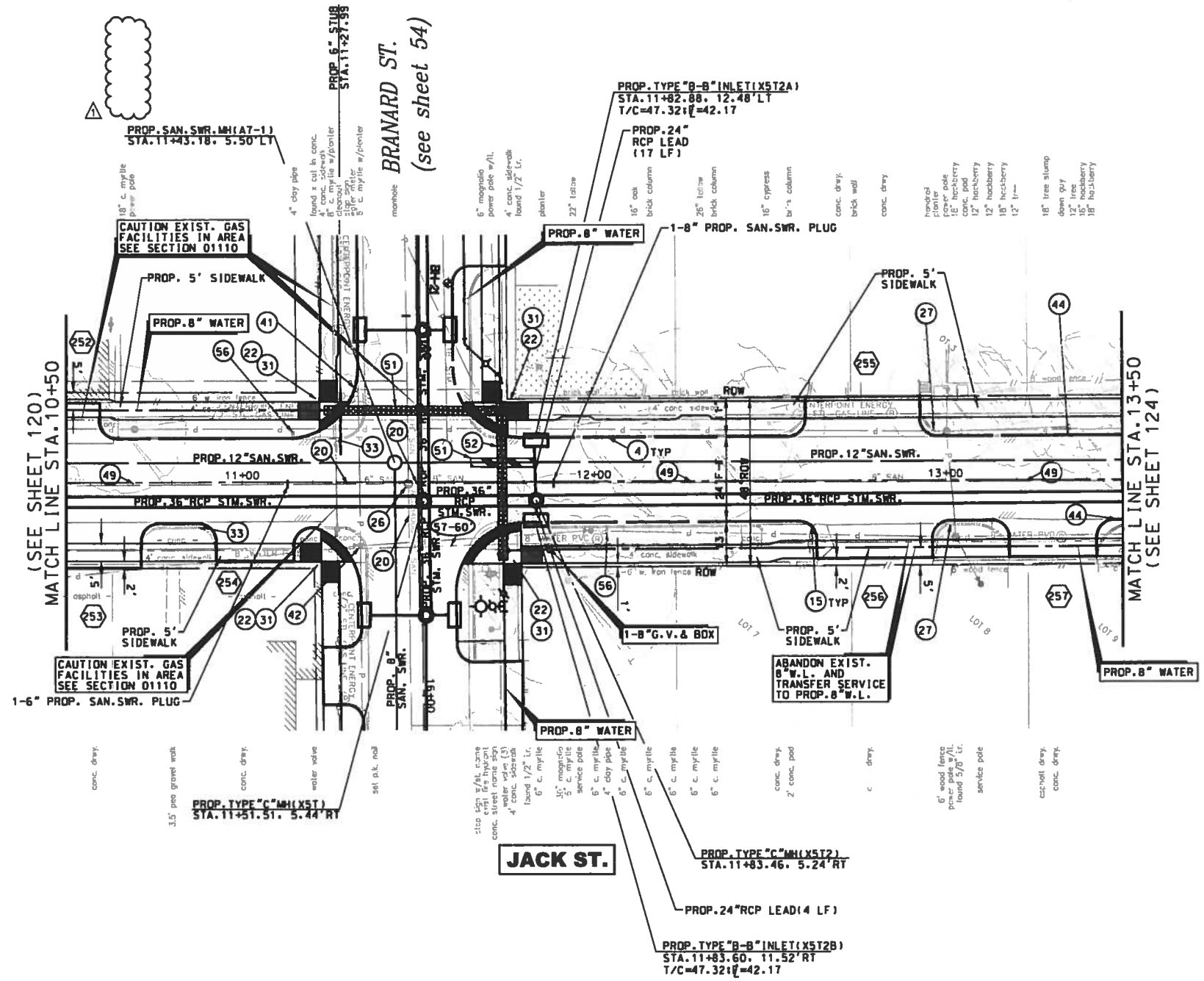
CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

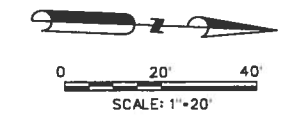
NEIGHBORHOOD STREET RECONSTRUCTION PROJECT 467

PROFILE
JACK STREET
STA. 7+00 TO STA. 10+50

WBS NUMBER	N-000400-0001-4
DRAWING SCALE	VERT. 1"=2' HORIZ. 1"=20'
CITY OF HOUSTON PM	BEN BANSAL, P.E.
SHEET No. 121 OF 226	

P-1576





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ELEV.=39.93 FEET NAVD 1988. 2001 ADJUSTED

TEMPORARY BENCHMARKS:

TBM #	STA / OFF	DESC	ELEV

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Texas Professional Engineering Firm Registration No. F148

STATE OF TEXAS
MICHAEL ANDREW MARTIN
63282
LICENSED
PROFESSIONAL ENGINEER
3/11/11

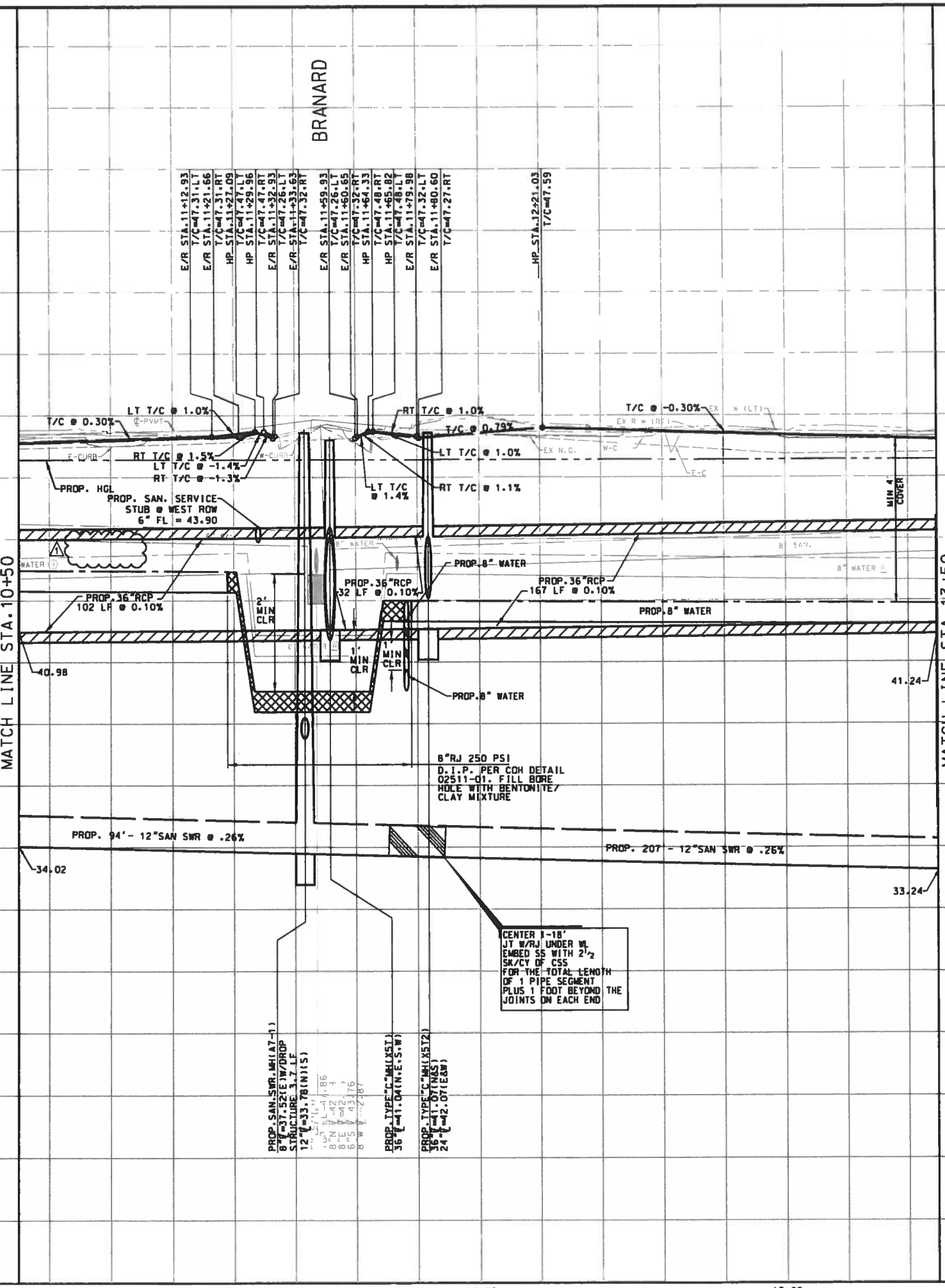
SURVEYED BY:
RUDI & ASSOCIATES, INC.
C.O.H. FB No. P-5397

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

NEIGHBORHOOD STREET RECONSTRUCTION PROJECT 467
PLAN
JACK STREET
STA.10+50 TO STA.13+50

WBS NUMBER	
N-000400-0001-4	
DRAWING SCALE	
VERT. 1"=2' HORIZ. 1"=20'	
CITY OF HOUSTON PM	
BEN BANSAL, P.E.	
SHEET No. 122 OF 226	

P-1576



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ELEV.=39.93 FEET NAVD 1988, 2001 ADJUSTED

TEMPORARY BENCHMARKS:

TBM #	STA / OFF	DESC	ELEV

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J Cooper Date: 12-1-15
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713/782-0042
www.vandewiele-eng.com
Texas Professional Engineering Firm Registration No. F148

STATE OF TEXAS MICHAEL ANDREW MARTIN 63282 LICENSED PROFESSIONAL ENGINEER 3/9/16

SURVEYED BY:
KUD & ASSOCIATES, INC.
C.O.H. FB No. P-5397

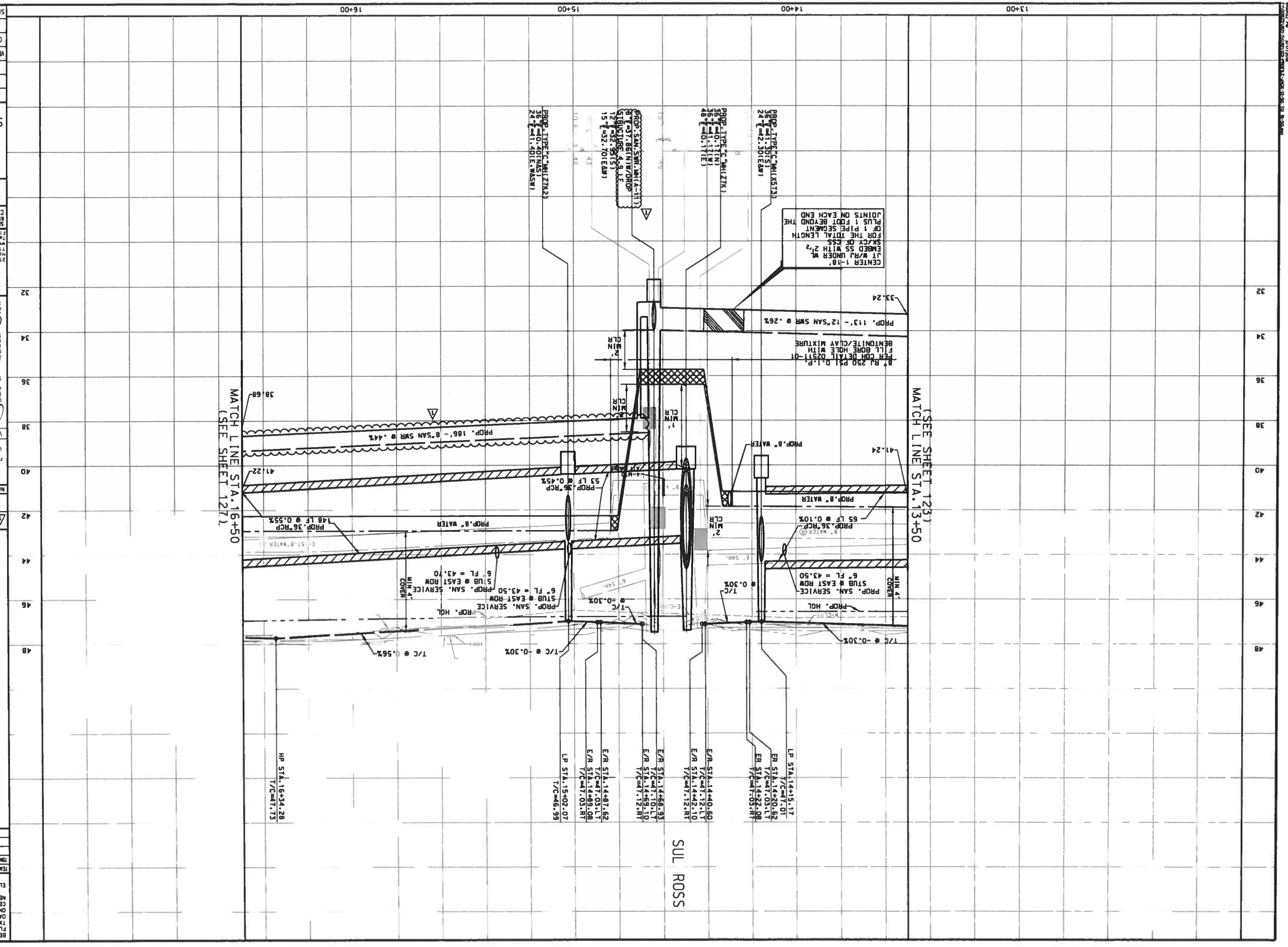
CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

NEIGHBORHOOD STREET RECONSTRUCTION PROJECT 467

PROFILE
JACK STREET
STA. 10+50 TO STA. 13+50

WBS NUMBER
N-000400-0001-4
DRAWING SCALE
VERT. 1"=2' HORIZ. 1"=20'
CITY OF HOUSTON PM
BEN BANSAL, P.E.
SHEET No. 123 OF 226

P-1576



P-1576

WBS NUMBER
N-000400-0001-4
DRAWING SCALE
VERT. 1"=2' HORIZ. 1"=20'
CITY OF HOUSTON PM
BEN BANSAL, P.E.
SHEET No. 125 OF 226

PROFILE
JACK STREET
STA. 13+50 TO STA. 16+50

NEIGHBORHOOD STREET RECONSTRUCTION PROJECT 467

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

VanDeWiele & Voyer Incorporated
2925 Briarpark, Suite 275
Houston, Texas 77042-3719
713/782-0042
www.vandewiele-eng.com
Texas Professional Engineering Firm Registration No. F148

SURVEYED BY: KLG & ASSOCIATES, INC. C.O.H. FB NO. P-5397

MICHAEL ANDREW MARTIN 63282 LICENSED PROFESSIONAL ENGINEER STATE OF TEXAS

VERIFICATION OF PRIVATE UTILITY LINES

Centerpoint Energy/Natural Gas Facilities Verification ONLY
(This signature verifies that you have shown/NP Natural Gas lines correctly – not to be used for conflict verification)(Gas service
Signature valid for six months.
Date: 12-1-15

Centerpoint Energy/Underground Electric Facilities Verification ONLY
(This signature verifies existing underground facilities – not to be used for conflict verification.)
Signature valid for six months.
Date: 12-1-15

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Signature valid for one year.
Date: 12-1-15

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No.	DATE	REVISIONS	APP.
1	3/11	ADDENDUM #1 SAN.SWR. REVISED	M.A.M

NOTES:

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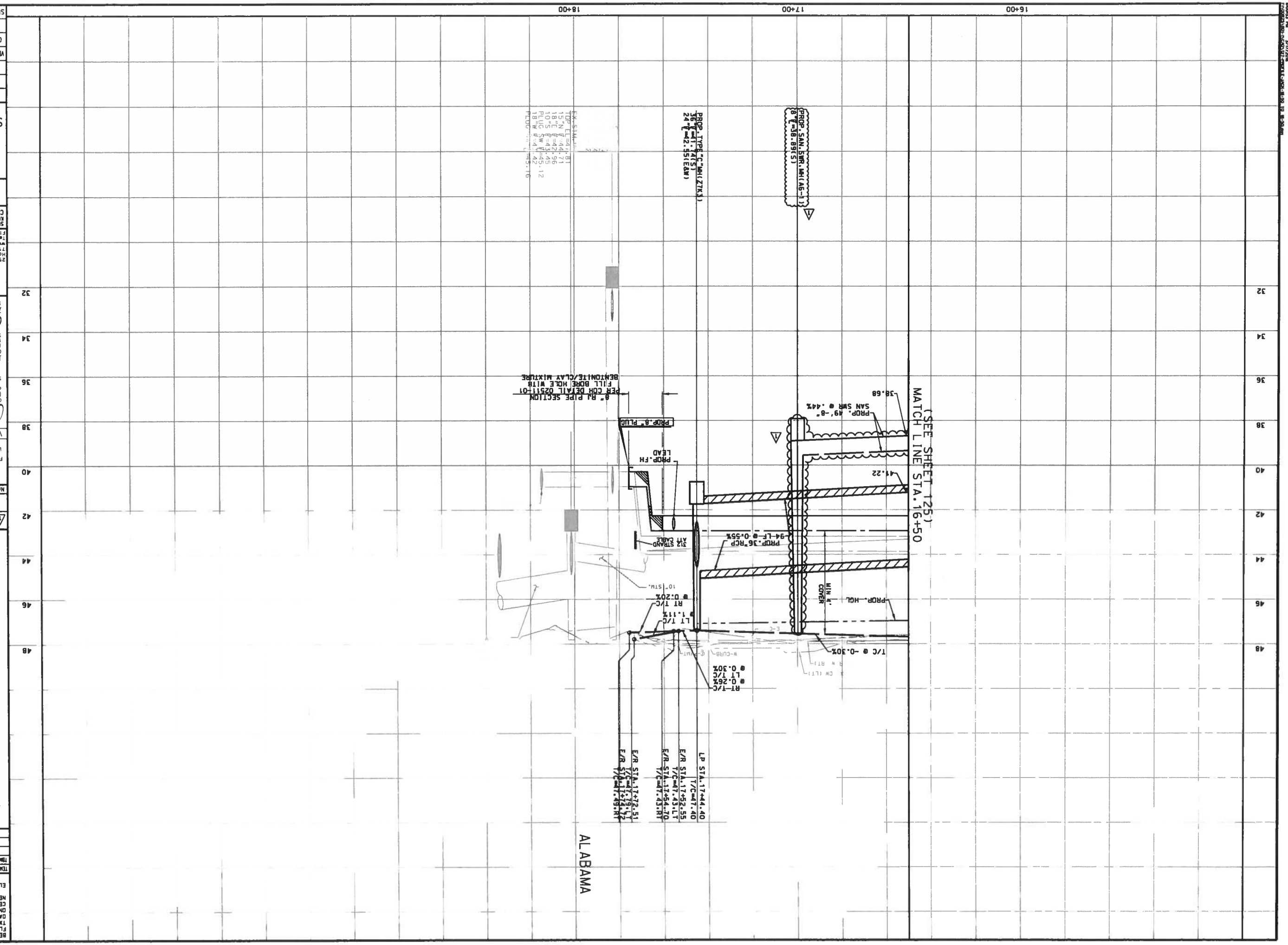
5. EXISTING SIGNS EXCEPT STOP SIGNS TO BE REMOVED, SALVAGED AND REPLACED.

ITEM #	STA / OFF	DESC	ELEV

TEMPORARY BENCHMARKS:

BENCHMARK:
FLOODPLAIN REFERENCE MARK NUMBER 05002S IS A TXDOT DISK ON BRIDGE AT HEIGHTS BLVD AND WHITE OAK BAYOU LOCATED ON UPSTREAM, CONCRETE WALK, ON SW CORNER OF S-BOUND BRIDGE. 5. OF STREAM CENTER IN KEYMAP 493E IN THE WHITE OAK WATERSHED NEAR STREAM E100-00-00
ELEV.=39.93 FEET NAVD 1988, 2001 ADJUSTED

P-1576



ALABAMA

BENCHMARK:
FLOODPLAIN REFERENCE MARK NUMBER 05002S IS A TOOOT DISK ON BRIDGE AT HEIGHTS BLVD AND WHITE OAK BAYOU LOCATED ON UPSTREAM, CONCRETE WALK, CENTER IN KEYMAP 493E IN THE WHITE OAK WATERSHED ON SW CORNER OF S-BOUND BRIDGE, S. OF STREAM NEAR STREAM E100-00-00
ELEV.=39.93 FEET NAVD 1988, 2001 ADJUSTED

TEMPORARY BENCHMARKS:

TBM #	STA / OFF	DESC	ELEV

NOTES:

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VERIFICATION OF PRIVATE UTILITY LINES

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Centerpoint Energy/Natural Gas Facilities Verification ONLY
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Signature valid for six months.
Date: 12-1-15

Centerpoint Energy/Underground Electric Facilities Verification ONLY
(This signature verifies existing underground facilities – not to be used for conflict verification.)
Signature valid for six months.
Date: 12-1-15

Approved for AT&T Texas/SWBT underground conduit facilities only.
Signature valid for one year.
Date: 12-1-15

Van De Wiele & Voger Incorporated
2925 Briarpark, Suite 215
Houston, Texas 77042-3718
713/782-0042
www.vandewiele-eng.com
Texas Professional Engineering Firm Registration No. F148

SURVEYED BY: KUO & ASSOCIATES, INC.
C.O.H. FB NO. P-5397

STATE OF TEXAS
MOHAMED AMEEN WAHIN
63282
LICENSED PROFESSIONAL ENGINEER

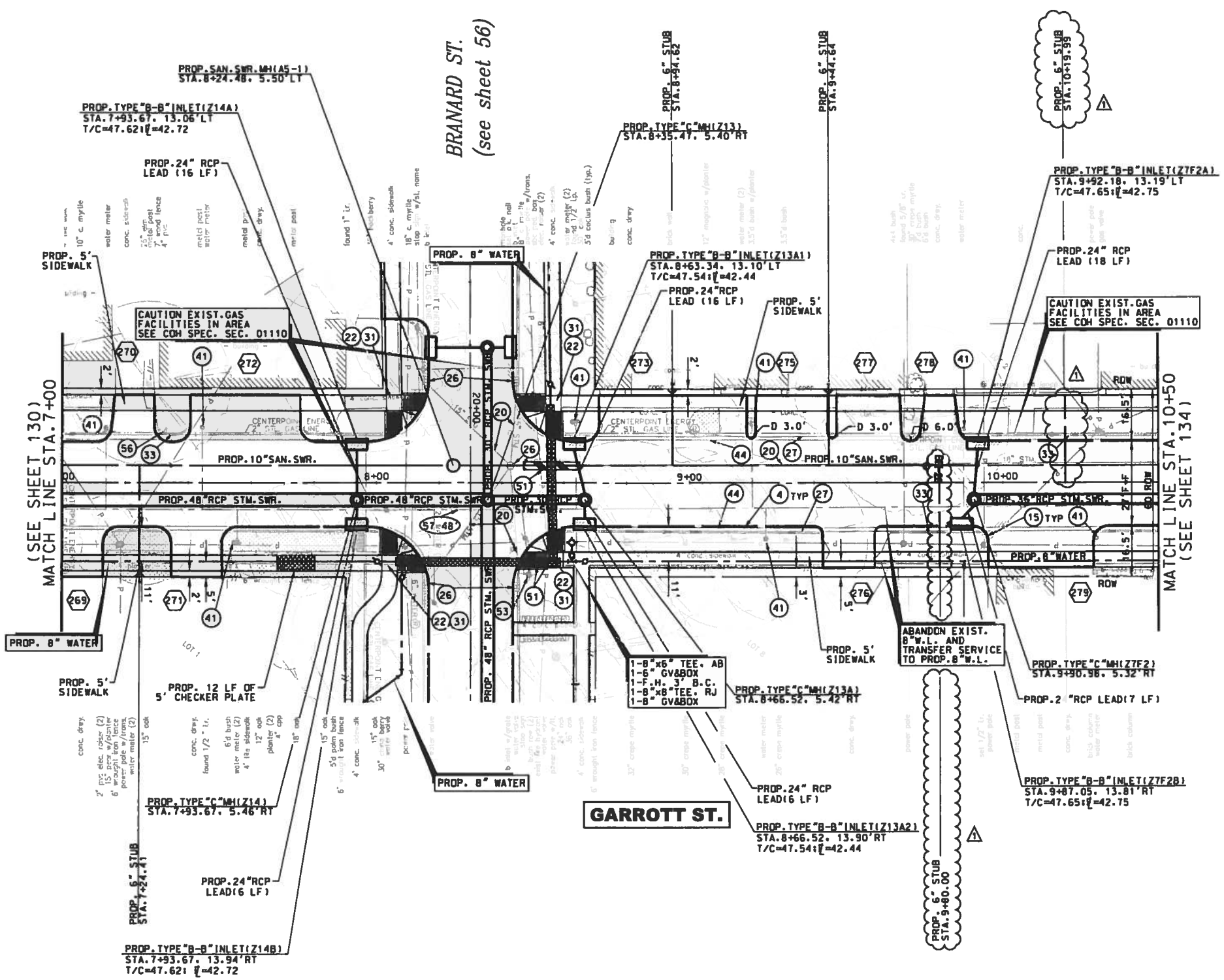
CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

NEIGHBORHOOD STREET RECONSTRUCTION PROJECT 467
PROFILE
JACK STREET
STA. 16+50 TO STA. 18+50

MBS NUMBER
N-000400-0001-4
DRAWING SCALE
VERT. 1"=2', HORIZ. 1"=20'
CITY OF HOUSTON PM
BEN BANSAL, P.E.
SHEET NO. 127 OF 226

TO ARRANGE FOR LINES TO BE TURNED OFF OR MOVED, CALL CENTERPOINT ENERGY AT 713-207-2222.

NO.	DATE	REVISIONS	APP.
1	3/11	ADDENDUM #1 SAN.SWR. REVISED	M.A.W.



BENCHMARK:
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ELEV.=39.93 FEET NAVD 1988. 2001 ADJUSTED

TEMPORARY BENCHMARKS:

TBM #	STA / OFF	DESC	ELEV

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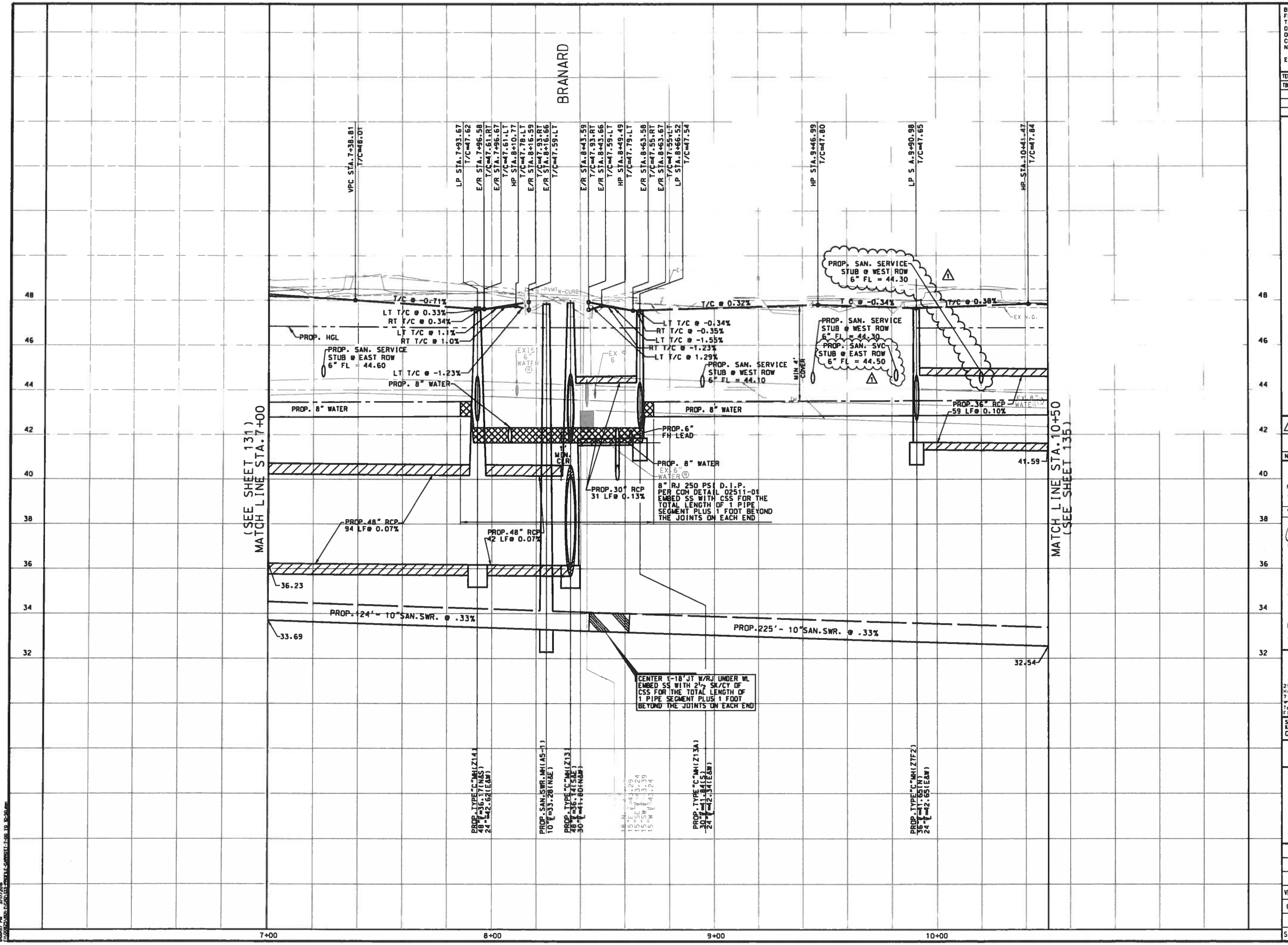
STATE OF TEXAS
MICHAEL ANDREW MARTIN
63282
LICENSED
PROFESSIONAL ENGINEER
3/11/11

SURVEYED BY:
RUD & ASSOCIATES, INC.
C.O.H. FB No. P-5397

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

NEIGHBORHOOD STREET
RECONSTRUCTION PROJECT 467
PLAN
GARROTT STREET
STA. 7+00 TO STA. 10+50

WBS NUMBER	
N-000400-0001-4	
DRAWING SCALE	
VERT. 1"=2' HORIZ. 1"=20'	
CITY OF HOUSTON PM	
BEN BANSAL, P.E.	
SHEET No. 132 OF 226	



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ELEV.=39.93 FEET NAVD 1988. 2001 ADJUSTED

TEMPORARY BENCHMARKS:

TBM #	STA / OFF	DESC	ELEV

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STATE OF TEXAS MICHAEL ANDREW MARTIN 63282 LICENSED PROFESSIONAL ENGINEER 3/11/11

SURVEYED BY:
KUO & ASSOCIATES, INC.
C.O.H. FB No. P-5397

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

NEIGHBORHOOD STREET RECONSTRUCTION PROJECT 467
PROFILE
GARROTT STREET
STA. 7+00 TO STA. 10+50

WBS NUMBER	
N-000400-0001-4	
DRAWING SCALE	
VERT. 1"=2' HORIZ. 1"=20'	
CITY OF HOUSTON PM	
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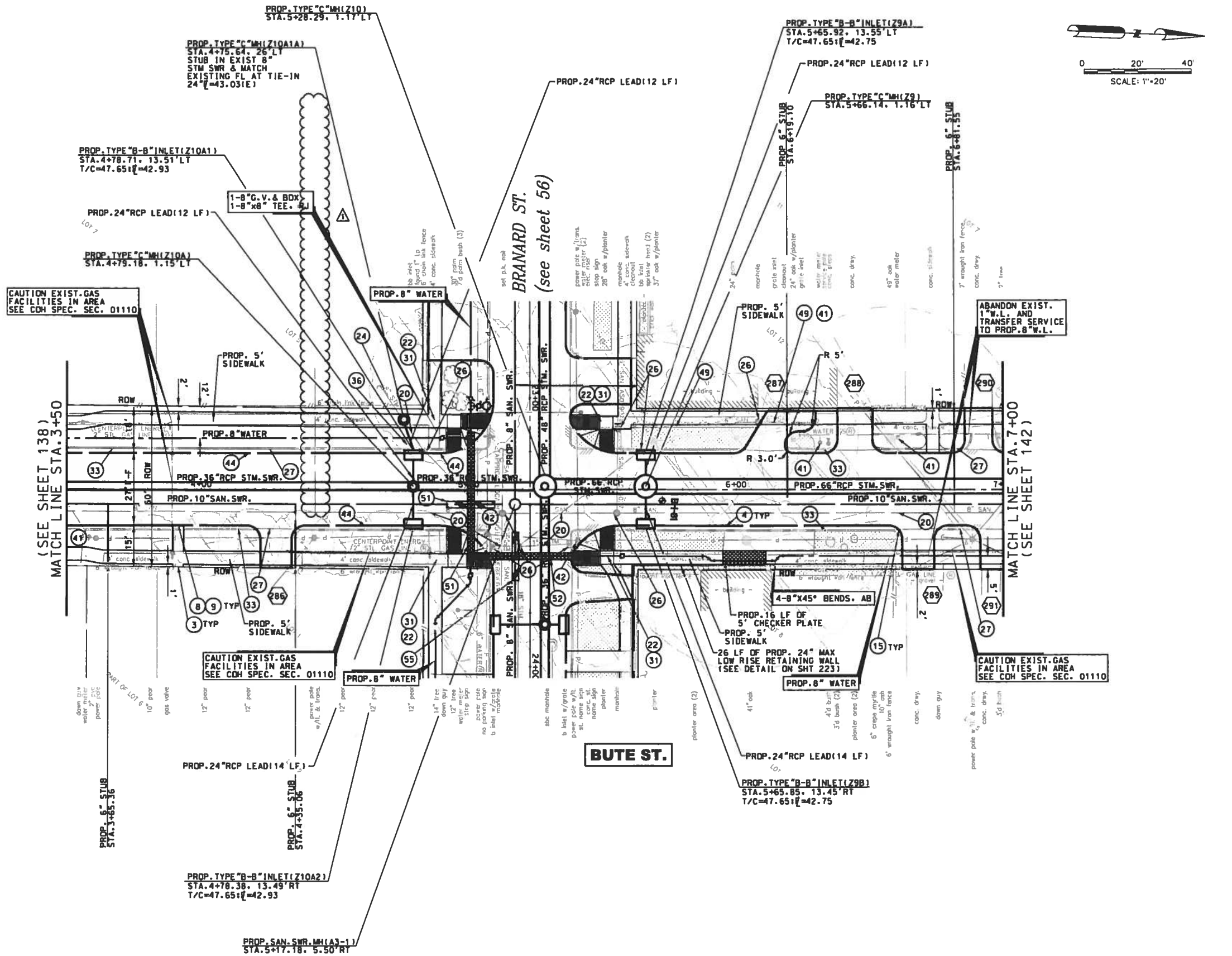
SHEET No. 133 OF 226	

P-1576



0 20' 40'
SCALE: 1"=20'

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5. EXISTING SIGNS EXCEPT STOP SIGNS TO BE REMOVED. SALVAGED AND REPLACED.

No.	DATE	REVISIONS	APP.
1	3/11	ADDENDUM #1 SERVICE STUB REVISED	M.A.M

TO ARRANGE FOR LINES TO BE TURNED OFF OR MOVED, CALL CENTERPOINT ENERGY AT 713-207-2222.

NOTICE:
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VERIFICATION OF PRIVATE UTILITY LINES

A Pickens Date: 12-1-15
CenterPoint Energy/Natural Gas Facilities Verification ONLY
(This signature verifies that you have shown CNP Natural Gas lines correctly – not to be used for conflict verification)(Gas service
Signature valid for six months.

A Pickens Date: 12-1-15
CenterPoint Energy/Underground Electric Facilities Verification ONLY
(This signature verifies existing underground facilities – not to be used for conflict verification.)
Signature valid for six months.

J. Covarrubias Date: 12-1-15
Approved for AT&T Texas/SWBT underground conduit facilities only. Signature valid for one year.

VanDeWiele & Vogler Incorporated
2925 Briarpark, Suite 275
Houston, Texas 77042-3778
713/782-0042
www.vandewiele-eng.com
Texas Professional Engineering Firm Registration No. F148

STATE OF TEXAS
MICHAEL ANDREW MARTIN
63282
LICENSED PROFESSIONAL ENGINEER
3/4/15

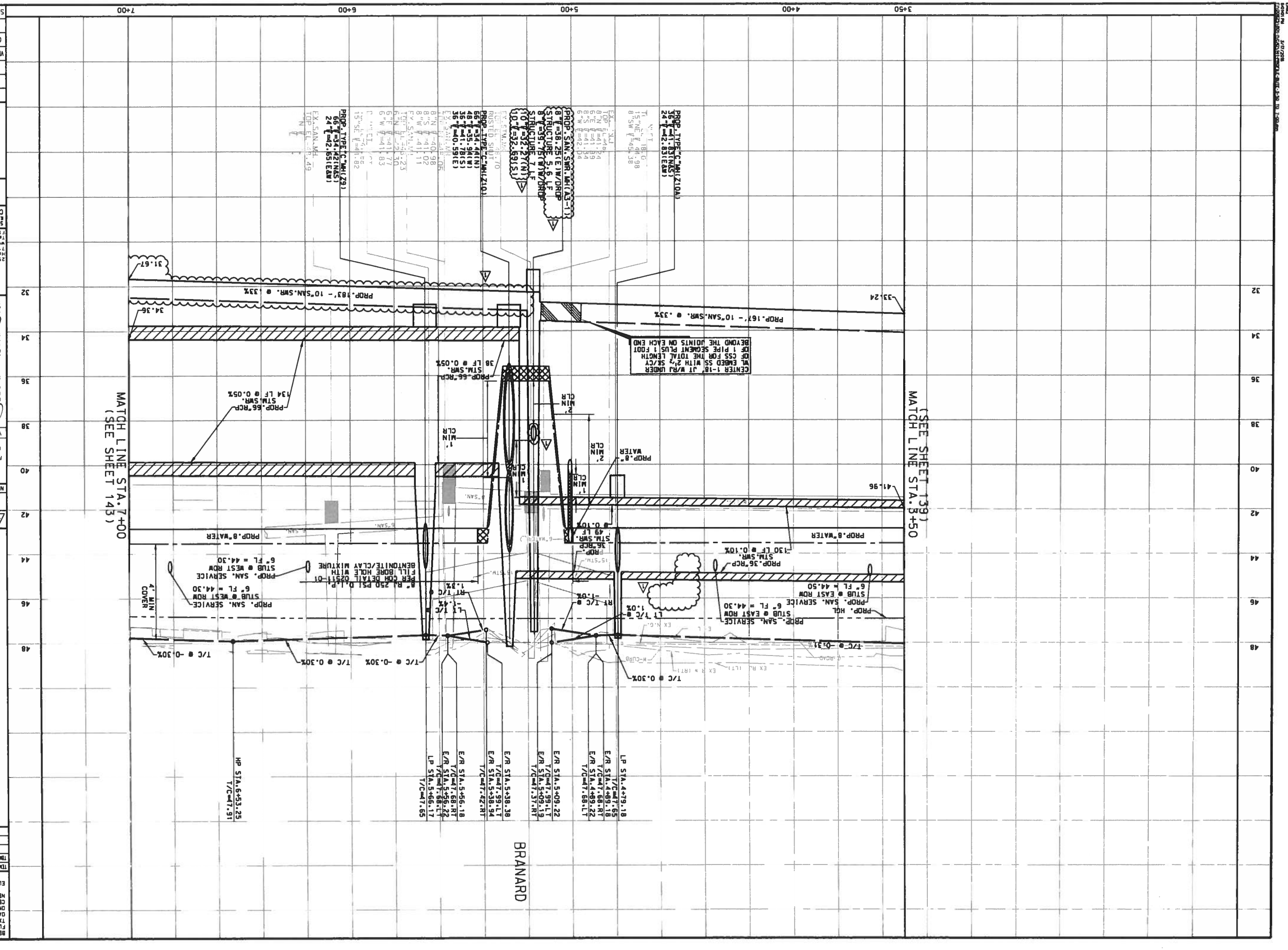
SURVEYED BY:
RUD & ASSOCIATES, INC.
C.O.H. FB No. P-5397

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

NEIGHBORHOOD STREET RECONSTRUCTION PROJECT 467
PLAN
BUTE STREET
STA. 3+50 TO STA. 7+00

WBS NUMBER	
N-000400-0001-4	
DRAWING SCALE	
VERT. 1"=2' HORIZ. 1"=20'	
CITY OF HOUSTON PM	
BEN BANSAL, P.E.	
SHEET No. 140 OF 226	

P-1576



P-1576

WBS NUMBER
N-000400-0001-4
DRAWING SCALE
VERT. 1"=2' HORIZ. 1"=20'
CITY OF HOUSTON PM
BEN BANSAL, P.E.
SHEET No. 141 OF 226

CITY OF HOUSTON

DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

NEIGHBORHOOD STREET RECONSTRUCTION PROJECT 467

PROFILE
BUTE STREET
STA. 3+50 TO STA. 7+00

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Houston, Texas 77042-3778
713/782-0042
www.vandewiele-eng.com
Texas Professional Engineering Firm Registration No. F148

STATE OF TEXAS
MICHAEL ANDREW MARTIN
63282
11/13/2009

SURVEYED BY:
RLB & ASSOCIATES, INC.
C.O.H. FB No. P-5397

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Date: 12-1-15

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Signature valid for six months.

Date: 12-1-15

Centerpoint Energy/Underground Electric Facilities Verification ONLY
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Date: 12-1-15

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No.	DATE	REVISIONS	APP.
1	3/11	ADDENDUM #1 SERVICE STUB REVISED	M.A.M.

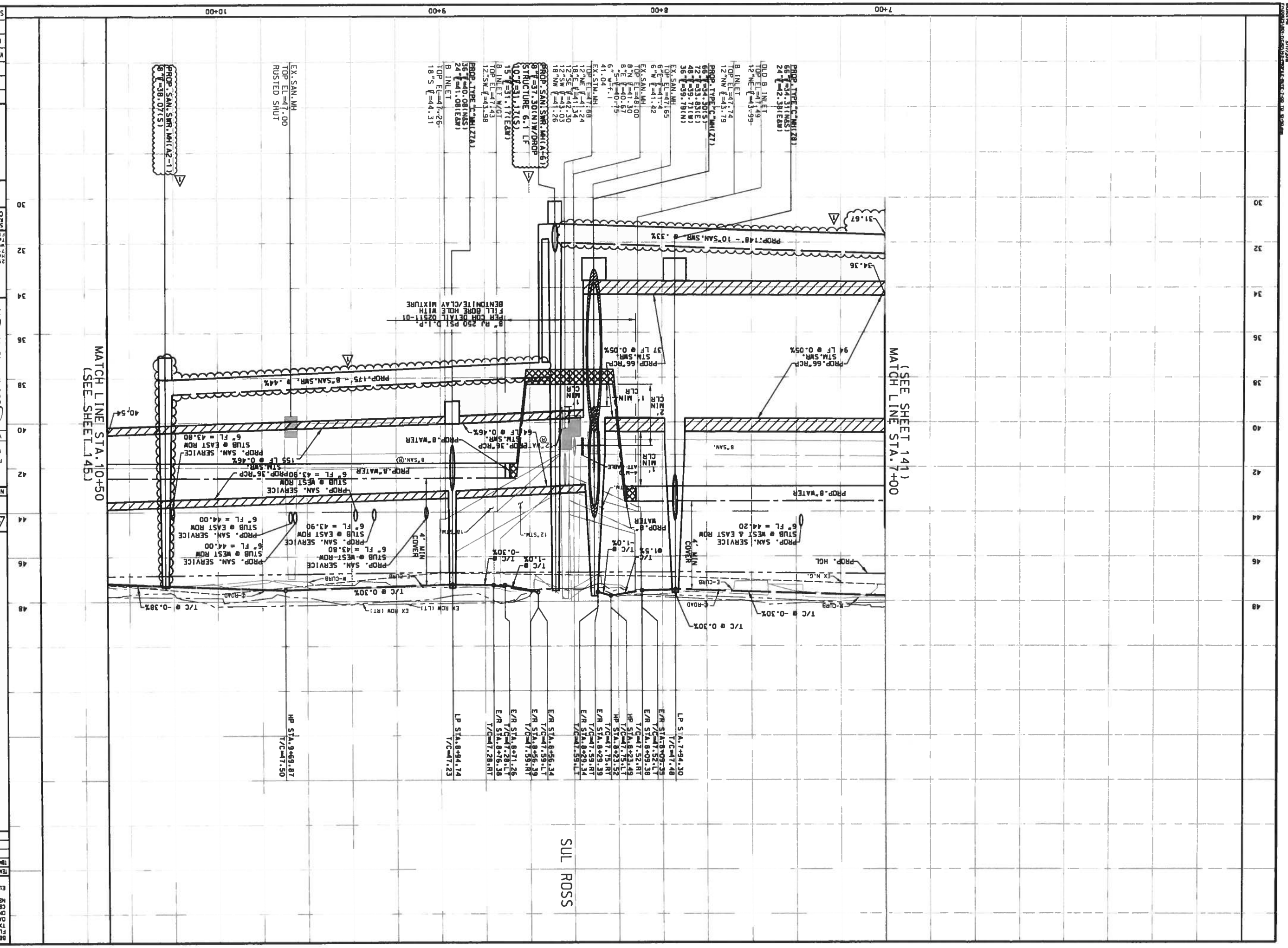
NOTES:

1. AT&T TEXAS/SWBT MANHOLES TO BE ADJUSTED TO NEW GRADE BY AT&T. CONTRACTOR TO COORDINATE.
2. LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE. CONTRACTOR TO CONFIRM LOCATIONS IN THE FIELD. CONTRACTOR TO RECONNECT ALL EXISTING SERVICES TO PROPOSED SANITARY SEWER AND WATER LINES.
3. EXISTING PVC YARD DRAINAGE AND SPRINKLERS TO BE REMOVED AND REPLACED.
4. ROADWAY INTERSECTION RADII SHALL BE 20' UNLESS OTHERWISE NOTED ON THE PLAN. DRIVEWAY RADII 5' UNLESS OTHERWISE NOTED ON THE TYPICAL DETAIL PLAN.
5. EXISTING SIGNS EXCEPT STOP SIGNS TO BE REMOVED, SALVAGED AND REPLACED.

BENCHMARK:
FLOODPLAIN REFERENCE MARK NUMBER 05002S IS A TXDOT DISK ON BRIDGE AT HEIGHTS BLVD AND WHITE OAK BAYOU LOCATED ON UPSTREAM, CONCRETE WALK, ON SW CORNER OF 5-BOUND BRIDGE, S. OF STREAM CENTER IN KEYMAP 493E IN THE WHITE OAK WATERSHED NEAR STREAM E100-00-00
ELEV.=39.93 FEET NAVD 1988, 2001 ADJUSTED

TEMPORARY BENCHMARKS:

TBM #	STA / OFF	DESC	ELEV



PROFILE
BUTE STREET
STA. 7+00 TO STA. 10+50

NEIGHBORHOOD STREET
RECONSTRUCTION PROJECT 467

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

VanDeWiele & Vogler Incorporated
2925 Briarpark, Suite 275
Houston, Texas 77042-3778
713/782-0042
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Texas Professional Engineering Firm Registration No. F148

SURVEYED BY
RUD & ASSOCIATES, INC.
C.O.H. FB NO. P-5397

MICHAEL ANDREW MARTIN
63282
LICENSED
PROFESSIONAL ENGINEER
STATE OF TEXAS
3/11/08

MBS NUMBER
N-000400-0001-4
DRAWING SCALE
VERT. 1"=2', HORIZ. 1"=20'
CITY OF HOUSTON PM
BEN BANSAL, P.E.
SHEET NO. 143 OF 226

TEMPORARY BENCHMARKS:

TBM #	STA / OFF	DESC	ELEV

ELEV.=39.93 FEET NAVD 1988, 2001 ADJUSTED

BENCHMARK:
FLOODPLAIN REFERENCE MARK NUMBER 05003S IS A TXDOT DISK ON BRIDGE AT HEIGHTS BLVD AND WHITE OAK BAYOU LOCATED ON UPSTREAM, CONCRETE WALL, ON SW CORNER OF S-BOUND BRIDGE, S. OF STREAM CENTER IN KEYMAP 493E IN THE WHITE OAK WATERSHED NEAR STREAM E100-00-00

NOTES:

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No.	DATE	REVISIONS	APP.
1	3/11	ADDENDUM #1 SAN.SWR. REVISED	M.A.M.

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VERIFICATION OF PRIVATE UTILITY LINES

Centerpoint Energy/Natural Gas Facilities Verification ONLY
(This signature verifies that you have shown/NP Natural Gas lines correctly - not to be used for conflict verification)(Gas service
Signature valid for six months.
Date: 12-1-15

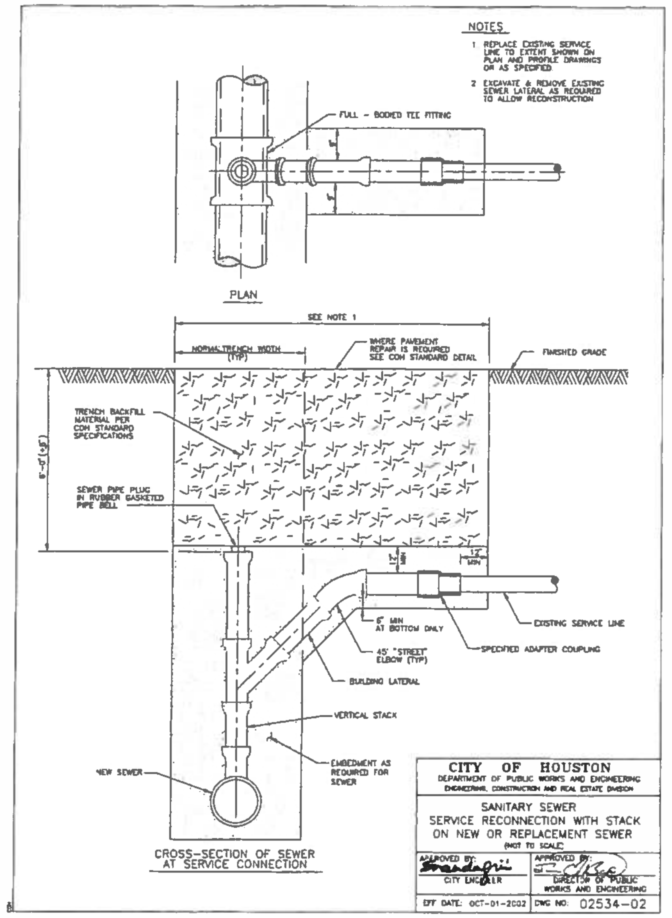
Centerpoint Energy/Underground Electric Facilities Verification ONLY
(This signature verifies existing underground facilities - not to be used for conflict verification.)
Signature valid for six months.
Date: 12-1-15

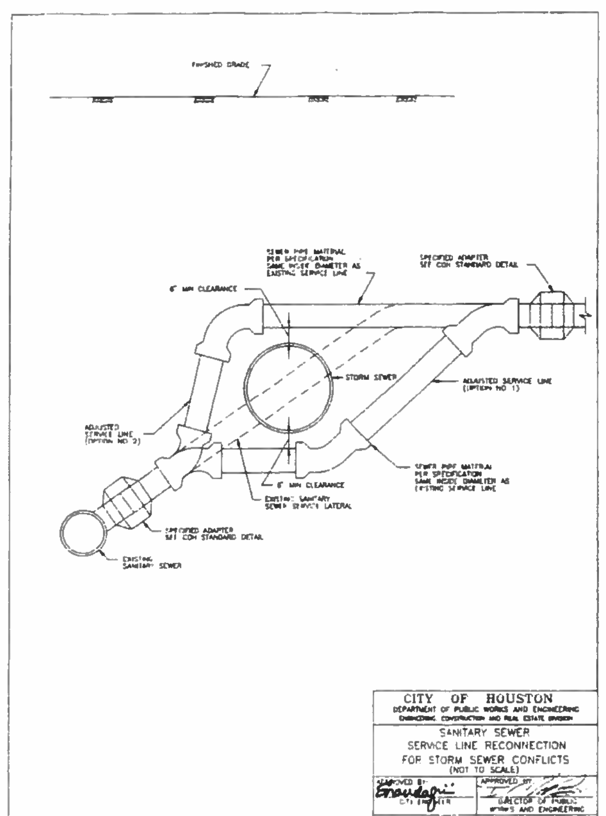
Approved for AT&T Texas/SWBT underground conduit facilities only.
Signature valid for one year.
Date: 12-1-15

BENCHMARK:
FLOODPLAIN REFERENCE MARK NUMBER 05003S IS A TXDOT DISK ON BRIDGE AT HEIGHTS BLVD AND WHITE OAK BAYOU LOCATED ON UPSTREAM, CONCRETE WALL, ON SW CORNER OF S-BOUND BRIDGE, S. OF STREAM CENTER IN KEYMAP 493E IN THE WHITE OAK WATERSHED NEAR STREAM E100-00-00

ELEV.=39.93 FEET NAVD 1988, 2001 ADJUSTED

P-1576





SUL ROSS STREET
SANITARY SEWER SERVICE RECONNECTIONS

SHEET NO.	STATION	ROW	STACK
36	3+60.07	NORTH	
36	3+82.79	SOUTH	
36	4+34.08	SOUTH	X
38	6+90.89	SOUTH	X
38	7+47.69	SOUTH	X
38	7+60.00	NORTH	X
38	7+94.06	NORTH	X
38	8+43.86	SOUTH	X
40	10+65.64	NORTH	X
40	11+35.01	NORTH	X
40	13+21.39	SOUTH	X
40	13+64.06	NORTH	X
40	14+35.38	SOUTH	X
40	14+45.76	NORTH	X
42	16+15.61	NORTH	X
42	16+44.30	SOUTH	X
42	16+49.07	NORTH	X
42	17+05.70	SOUTH	X
42	17+12.60	NORTH	X
42	17+63.93	SOUTH	X
42	17+64.36	NORTH	X
42	18+20.69	NORTH	X
42	18+27.05	SOUTH	X
42	18+88.63	NORTH	X
42	19+95.82	SOUTH	X
44	20+98.73	NORTH	X
44	21+17.60	SOUTH	X
44	21+55.20	NORTH	X
44	22+07.74	NORTH	X
44	24+87.60	NORTH	X
44	24+90.12	SOUTH	X
46	27+33.94	SOUTH	X

BRANARD STREET
SANITARY SEWER SERVICE RECONNECTIONS

SHEET NO.	STATION	ROW	STACK
48	3+59.27	SOUTH	X
48	4+09.27	NORTH	X
48	4+09.50	SOUTH	X
50	6+44.62	NORTH	X
50	6+88.57	SOUTH	X
50	7+10.39	NORTH	X
50	7+70.04	SOUTH	X
50	7+97.32	SOUTH	X
50	7+97.55	NORTH	X
50	8+20.00	SOUTH	X
50	8+38.95	NORTH	X
52	13+22.84	NORTH	X
52	13+68.23	SOUTH	X
52	14+40.64	NORTH	X
54	16+11.07	SOUTH	X
54	16+15.79	NORTH	X
54	16+41.01	SOUTH	X
54	16+49.18	NORTH	X
54	16+63.36	SOUTH	X
54	16+92.48	NORTH	X
54	17+28.41	SOUTH	X
54	17+85.92	NORTH	X
54	18+16.51	SOUTH	X
54	18+41.42	NORTH	X
54	18+83.94	SOUTH	X
54	18+89.67	NORTH	X
54	19+25.68	NORTH	X
54	19+39.37	SOUTH	X
56	21+17.90	NORTH	
56	21+19.23	SOUTH	
56	21+84.01	NORTH	
56	22+31.66	NORTH	
56	22+95.54	NORTH	
56	24+05.22	NORTH	X
56	24+39.01	NORTH	X
56	24+54.72	SOUTH	X

WEST MAIN STREET
SANITARY SEWER SERVICE RECONNECTIONS

SHEET NO.	STATION	ROW	STACK
60	3+83 96	NORTH	X
60	3+84 29	SOUTH	X
60	4+32 59	NORTH	X
60	4+73 74	SOUTH	X
62	5+29 57	SOUTH	X
62	7+00 00	NORTH	X
62	7+48 37	NORTH	X
62	7+48 42	SOUTH	X
62	8+44 80	NORTH	X
64	10+54 90	SOUTH	X
64	10+93 11	SOUTH	X
64	12+04 98	SOUTH	X
64	13+17 91	NORTH	
64	13+18 01	SOUTH	
64	14+14 80	NORTH	
64	14+16 67	SOUTH	
64	14+65 65	SOUTH	X
66	15+13 66	NORTH	X
66	16+73 58	SOUTH	
66	16+75 63	NORTH	
66	17+23 00	SOUTH	
66	17+73 03	NORTH	
66	17+85 19	NORTH	
66	18+31 76	NORTH	
66	18+80 00	SOUTH	
66	19+14 52	NORTH	
68	21+23 34	SOUTH	
68	22+04 57	SOUTH	

COLQUITT AVENUE
SANITARY SEWER SERVICE RECONNECTIONS

SHEET NO.	STATION	ROW	STACK
70	3+29 92	NORTH	X
70	3+36 26	SOUTH	X
70	4+07 07	SOUTH	X
70	4+71 61	NORTH	X
72	5+20 32	SOUTH	X
72	6+95 51	NORTH	X
72	6+95 52	SOUTH	X
72	7+13 50	SOUTH	X
72	7+45 31	NORTH	X
72	7+95 31	NORTH	X
72	7+95 32	SOUTH	X
72	8+30 15	SOUTH	X
72	8+47 20	NORTH	X
72	8+89 23	NORTH	X
74	10+05 66	SOUTH	X
74	10+30 32	SOUTH	X
74	10+77 49	SOUTH	X
74	11+57 64	NORTH	X
74	11+57 64	SOUTH	X
74	13+65 31	NORTH	X
74	13+65 60	SOUTH	X
74	14+16 21	NORTH	X
74	14+65 94	NORTH	X
74	14+75 73	SOUTH	X
76	15+72 80	NORTH	X
76	16+02 71	SOUTH	X
76	16+71 45	NORTH	X
76	17+65 31	NORTH	X
76	18+21 03	NORTH	
76	18+74 41	NORTH	

ROSELAND STREET
SANITARY SEWER SERVICE RECONNECTIONS

SHEET NO.	STATION	ROW	STACK
80	3+16 79	EAST	X
80	3+20 00	WEST	X
82	3+65 10	WEST	X
82	4+01 31	EAST	X
82	4+14 85	WEST	X
82	6+55 25	WEST	X
82	6+78 52	EAST	X
84	7+09 57	WEST	X
84	8+55 48	WEST	X
84	9+02 79	WEST	X
84	9+40 00	WEST	X
84	9+41 83	EAST	X
84	9+88 64	WEST	X
84	10+37 59	WEST	X
86	10+65 37	WEST	X
86	11+84 28	WEST	X
86	12+00 57	EAST	X
86	12+14 46	WEST	X
86	12+54 07	WEST	X
86	12+77 15	EAST	X
86	13+00 00	WEST	X
86	13+38 05	WEST	X
88	13+71 59	WEST	X
88	14+82 27	EAST	X
88	15+30 39	EAST	X
88	15+90 08	EAST	
88	16+18 71	WEST	

STANFORD STREET
SANITARY SEWER SERVICE RECONNECTIONS

SHEET NO.	STATION	ROW	STACK
92	3+16 46	WEST	X
92	3+46 97	EAST	X
94	3+68 50	WEST	X
94	4+34 44	EAST	X
94	6+39 50	WEST	X
94	6+78 50	WEST	X
94	6+78 56	EAST	X
96	8+75 31	WEST	X
96	9+88 50	WEST	X
96	10+21 13	EAST	X
96	10+35 80	EAST	X
98	10+61 51	EAST	X
98	10+76 48	EAST	X
98	10+87 43	EAST	X
98	12+71 94	WEST	X
102	16+61 62	EAST	
102	16+73 70	WEST	

GREELEY STREET
SANITARY SEWER SERVICE RECONNECTIONS

SHEET NO.	STATION	ROW	STACK
104	3+10 89	EAST	X
106	4+15 89	EAST	X
106	5+57 45	EAST	X
106	6+42 89	EAST	X
106	6+48 59	WEST	X
106	6+97 19	EAST	X
108	7+13 06	WEST	X
108	9+60 24	EAST	X
108	9+86 68	EAST	X
112	13+73 50	EAST	X
112	15+96 19	WEST	X
114	16+50 14	WEST	

JACK STREET
SANITARY SEWER SERVICE RECONNECTIONS

SHEET NO.	STATION	ROW	STACK
116	3+13.94	WEST	
118	6+03.12	EAST	X
118	6+44.55	EAST	X
120	7+03.12	EAST	X
120	9+77.00	EAST	X
122	11+27.99	WEST	X
124	14+04.81	EAST	X
124	15+01.63	EAST	X
124	15+34.27	EAST	X

GARROTT STREET
SANITARY SEWER SERVICE RECONNECTIONS

SHEET NO.	STATION	ROW	STACK
128	2+58.72	EAST	X
130	3+50.30	WEST	X
130	3+85.19	WEST	X
130	5+81.20	WEST	X
130	6+65.01	WEST	X
130	6+65.13	EAST	X
132	7+24.41	EAST	X
132	8+94.62	WEST	X
132	9+44.64	WEST	X
132	9+80.00	EAST	X
132	10+19.99	WEST	X
134	12+42.82	WEST	
134	13+00.88	WEST	
136	13+67.14	WEST	

BUTE STREET
SANITARY SEWER SERVICE RECONNECTIONS

SHEET NO.	STATION	ROW	STACK
138	3+44.74	WEST	X
140	3+65.36	EAST	X
140	4+35.06	EAST	X
140	6+19.10	WEST	X
140	6+81.55	WEST	X
142	7+37.92	EAST	X
142	7+37.97	WEST	X
142	9+06.60	WEST	X
142	9+29.94	EAST	X
142	9+38.34	WEST	X
142	9+65.40	WEST	X
142	9+67.40	EAST	X
142	10+20.56	EAST	X

BRANDT STREET
SANITARY SEWER SERVICE RECONNECTIONS

SHEET NO.	STATION	ROW	STACK
146	3+20.96	WEST	X
148	4+04.79	WEST	X

No.	DATE	REVISIONS	APP.
1	3/11	ADDENDUM #1 ADDED SAN.SWR. STND DETAIL & SERVICE STUB REVISED	M.A.M

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2925 Briarpark, Suite 275 Houston, Texas 77042-3778 713/782-0042 www.vandewiele-eng.com

SURVEYED BY: RUD & ASSOCIATES, INC. C.O.H. FB No. P-5397

STATE OF TEXAS — MICHAEL ANDREW MARTIN — 63282 — LICENSED PROFESSIONAL ENGINEER — 3/11/16

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

NEIGHBORHOOD STREET RECONSTRUCTION PROJECT No. 467

SANITARY SEWER DETAILS

SHEET 2 OF 2

WBS NUMBER	
N-000400-0001-4	
DRAWING SCALE	
N.T.S.	
CITY OF HOUSTON PM	
BEN BANSAL, P.E.	
SHEET No. 221 OF 226	

P-1576