

RESOLUTION NO. 2016-_____

A RESOLUTION AUTHORIZING THE ISSUANCE OF AN AMENDATORY SUPPLEMENTAL CHANGE ORDER NO. 1, TO CONTRACT NO. C15-0087 ISSUED TO CHARLES MARANDINO, LLC, MILMAY, NJ, IN THE AMOUNT OF \$62,459.20

WHEREAS, the City Council of the City of Vineland, on August 11, 2015, adopted Resolution No. 2015-337 entitled "A RESOLUTION AWARDED A CONTRACT TO CHARLES MARANDINO, LLC, MILMAY, NJ, FOR THE COMPLETION OF LANDIS AVENUE RESURFACING PROJECT PHASE 1, IN THE AMOUNT OF \$2,054,207.00"; and

WHEREAS, N.J.A.C. 5:30-11.1, et seq., sets forth the requirements for the processing of change orders; and

WHEREAS, the management personnel of City Engineer's Office has requested that an amendment be made to contract awarded to Charles Marandino, LLC, Milmay, NJ for Completion of Landis Avenue Resurfacing Project Phase 1, as authorized by Resolution No. 2015-337: said amendment is made necessary to resolve the following:

1. The lack of availability to American made ductile iron pipe fittings resulted in asking the contractor break out the cost of these items from the pipe cost. Iron and steel products not made domestically cannot be reimbursed by the State, without acceptable documentation. We believe we have proper documentation.
2. Subsurface utility conflicts have abounded on this project. Much of the drainage in the project has been proposed in new locations, due to the sidewalk bumpouts. This has resulted in elevational conflicts with utilities, both marked and unmarked. The result is that design changes were required to work around the conflicts. These changes included changing pipe sizes and structures; and

WHEREAS, the City of Vineland desires to comply with said requirements of N.J.A.C. 5:30-11.1, et seq., and to that end herewith files with the governing body a report stating the facts involved and indicating that the proposed change order may be allowed under these regulations; and

WHEREAS, the City Comptroller has certified the availability of funds for the amendatory supplemental change order for which authorization is requested in the amount of \$62,459.20; now, therefore,

BE IT RESOLVED by the Council of the City of Vineland that said amendatory supplemental change order #1 to Contract No. C15-0087, issued to Charles Marandino, LLC, Milmay, NJ, in the amount of \$62,459.20, be and the same is hereby ratified and approved.

Adopted:

President of Council

ATTEST:

City Clerk



April 19, 2016

REPORT

TO: THE MAYOR AND COUNCIL

Amendatory Supplemental Change Order No. 1
Contract No. C15-0087
Completion of Landis Avenue Resurfacing Project Phase 1
Charles Marandino, LLC, Milmay, NJ

We are requesting that an amendatory supplemental change order be issued to Contract No. C15-0087, issued to Charles Marandino, LLC, Milmay, NJ for Completion of Landis Avenue Resurfacing Project Phase 1. This contract was authorized by Resolution No. 2015-337, adopted by City Council on August 11, 2015.

The change order requested, in the amount of \$62,459.20, will resolve the following issues:

1. The lack of availability to American made ductile iron pipe fittings resulted in asking the contractor break out the cost of these items from the pipe cost. Iron and steel products not made domestically cannot be reimbursed by the State, without acceptable documentation. We believe we have proper documentation.
2. Subsurface utility conflicts have abounded on this project. Much of the drainage in the project has been proposed in new locations, due to the sidewalk bumpouts. This has resulted in elevational conflicts with utilities, both marked and unmarked. The result is that design changes were required to work around the conflicts. These changes included changing pipe sizes and structures.

This change order represents an increase of approximately 3.0406% over the original contract amount of \$2,054,207.00.

The amendatory supplemental change order for which authorization is herein requested may be authorized in accordance with N.J.A.C. 5:30-11.1 et seq.

Respectfully submitted,

A handwritten signature in blue ink, appearing to read "Robert E. Dickenson, Jr.", is written over the typed name.

Robert E. Dickenson, Jr.
Assistant Business Administrator

RD/wr
Encl.

REQUEST FOR CHANGE ORDER

FOR:

RESURFACING OF LANDIS AVENUE, PHASE 1

PROJECT NAME

TO: BUSINESS ADMINISTRATION

DEPARTMENT: PW / ENGINEERING

FROM: DAVID J. MAILLET, PE

This is a request for change order # 1 to Contract # C15-0087 for:

Project Name RESURFACING OF LANDIS AVENUE, PHASE 1

Name/Address of

Contractor: CHARLES MARANDINO, LLC

The change order is necessary because: (use additional pages if necessary to explain your reason and you must attach *documentation to support the necessity of this change order.

*(Documentation from contractor, engineer, etc.)

SEE ATTACHED

Original Contract Amount: \$ 2054207.00
Amount of this change order: \$ 62459.20
Previous Change Orders: \$ -
Total Revised Amount: \$ 2116666.20

APPROVED BY: BRIAN N. MYERS, CITY ENGINEER
Print/type

David J. Maillet
Signature
for Brian Myers

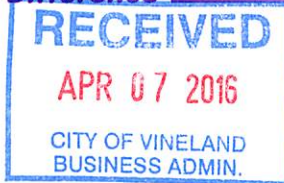
NOTE:

CHANGE ORDERS CANNOT EXCEED 20% OF THE ORIGINAL CONTRACT AMOUNT

Please provide the account number that the change order will be charged to:

Account # 021-0-00-00-0000-2-5517301

CC: Purchasing Division



April 6, 2016

MEMORANDUM TO: Bob Dickenson, Assistant Business Administrator

RE: Resurfacing of Landis Avenue Phase 1
Myrtle Avenue to Boulevard
Federal Project No. STP-1030 (108) CON
City Eng. File No. 15-002

Enclosed, please find a request for Change Order (CO) for the above referenced project. The request is for a dollar increase in the amount of ~~\$57,680.70~~ (+2.8%).

As with our previous projects funded by the Federal Highway Administration (FHWA), this office will submit a federal change order request to NJDOT for review and approval which will mimic this local CO. Upon approval by NJDOT, there will be a contract modification required.

This modification will be to the contract between the City of Vineland and NJDOT. In the past, our office would receive the modification, go to council for approval, have the mayor execute it, and send it back. In an effort to streamline this process, we respectfully request that City Council approve the Change Order as well as approve the Mayor to execute a contract modification which would result from this change order.

The change order reflects three (3) Field Orders (enclosed) issued by our office. Generally speaking, there are 2 issues being resolved.

1. The lack of availability of American made ductile iron pipe fittings resulted in our asking the contractor to break out the cost of these items from the pipe cost. Iron and steel products not made domestically cannot be reimbursed by the State, without acceptable documentation. We believe we have proper documentation, but doubt our chance of success.



2. Subsurface utility conflicts have abounded on this project. Much of the drainage in the project has been proposed in new locations, due to the sidewalk bumpouts. This has resulted in elevational conflicts with utilities, both marked and unmarked. The result is that design changes were required to work around the conflicts. These changes included changing pipe sizes and structures. We anticipate another change order related to delay the contractor encountered due to these conflicts.

Should you have any questions and/or comments, please feel free to contact me at extension 4098.

Sincerely,



David J. Maillet, PE
Principal Engineer

Enc.

Cc: Brian Myers, City Engineer



Reid Wanda

From: Maillet David J.
Sent: Tuesday, April 12, 2016 9:52 AM
To: Reid Wanda
Subject: FW: Landis CO revision
Attachments: Book1.pdf

Wanda,

The attachment is our revised change order form.

Due to email issues, my contractor did not receive this yesterday. I faxed it this morning and have no reason to believe that there will be disagreement in the changes.

There are three items added to this (A5, D5, and D7).

This makes it a positive change order in the amount of \$62,459.20 (+3.04), for a revised contract amount of \$2,116,666.20.

Very truly yours,

David J. Maillet, P.E.
Principal Engineer
Division of Engineering and Planning
City of Vineland
640 E. Wood Street
Vineland, NJ 08360
(856) 794-4000, extn. 4098
dmaillet@vinelandcity.org
www.vinelandcity.org



From: Maillet David J.
Sent: Tuesday, April 12, 2016 9:24 AM
To: Gary Giglio; CMLLC
Subject: FW: Landis CO revision

Very truly yours,

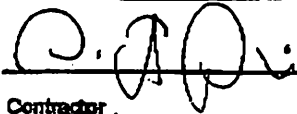
CONTRACT: LANDIS AVENUE RESURFACING PROJECT PHASE 1 (MYRTLE TO N.E. BOULEVARD), CT C15-0067

CONTRACTOR: CHARLES MARANDINO, LLC
233 MAIN AVENUE
MILMAY, NJ 08340

ITEM	DESCRIPTION	CONTRACT QUANTITY	UNITS	QUANTITY ADJUSTMENT	ADJUSTED QUANTITY	CONTRACT UNIT PRICE	ADJUSTED UNIT PRICE	CONTRACT AMOUNT	FINAL AMOUNT	AMOUNT OF CHANGE
A5	REMOVE AND REPLACE DRIVEWAY APRONS, 6" THICK REINFORCED	110	SF	10.00	120.00	\$ 8.50	\$ 8.50	938.00	1,020.00	85.00
B16	DUCTILE IRON PIPE, 16" (INCLUDES REMOVAL OF EXISTING PIPE)	313	LF	-313.00	0.00	\$ 185.00	\$ 185.00	57,905.00	0.00	-57,905.00
C17	DUCTILE IRON PIPE, 16" (INCLUDES REMOVAL OF EXISTING PIPE)	206	LF	-206.00	0.00	\$ 185.00	\$ 185.00	38,110.00	0.00	-38,110.00
D5	REMOVE AND REPLACE DRIVEWAY APRONS, 6" THICK REINFORCED	1,570	SF	171.50	1,741.50	\$ 9.00	\$ 9.00	14,130.00	15,673.50	1,543.50
D7	CONCRETE GUTTER, 8" THICK	1,280	LF	70.00	1,350.00	\$ 45.00	\$ 45.00	57,600.00	60,750.00	3,150.00
D11	INLET CONVERTED TO MANHOLE	1	UNIT	-1.00	0.00	\$ 5,500.00	\$ 5,500.00	5,500.00	0.00	-5,500.00
D14	REMOVE DRAINAGE STRUCTURE (INCLUDING EXCAVATION AND BACKFILL)	2	UNIT	1.00	3.00	\$ 1,200.00	\$ 1,200.00	2,400.00	3,600.00	1,200.00
D16	INSTALL MANHOLE, 4' DIAMETER	1	UNIT	1.00	2.00	\$ 5,500.00	\$ 5,500.00	5,500.00	11,000.00	5,500.00
D17	DUCTILE IRON PIPE, 12" (INCLUDES REMOVAL OF EXISTING PIPE)	240	LF	-34.00	206.00	\$ 175.00	\$ 175.00	42,000.00	36,050.00	-5,950.00
D18	DUCTILE IRON PIPE, 16" (INCLUDES REMOVAL OF EXISTING PIPE)	149	LF	-85.00	64.00	\$ 185.00	\$ 185.00	27,565.00	11,840.00	-15,725.00
S1	DUCTILE IRON PIPE, 8" (INCLUDES REMOVAL OF EXISTING PIPE)	0	LF	600.00	600.00	\$ -	\$ 165.00	0.00	99,000.00	99,000.00

ITEM	DESCRIPTION	CONTRACT QUANTITY	UNITS	QUANTITY ADJUSTMENT	ADJUSTED QUANTITY	CONTRACT UNIT PRICE	ADJUSTED UNIT PRICE	CONTRACT AMOUNT	FINAL AMOUNT	AMOUNT OF CHANGE	
S2	DUCTILE IRON PIPE FITTINGS (NON DOMESTIC)	0	LS	1.00	1.00	\$ -	\$ 2,187.45	0.00	2,187.45	2,187.45	
S4	DUCTILE IRON PIPE, 16" (INCLUDES REMOVAL OF EXISTING PIPE; EXCLUDES FITTINGS; B16)	0	LF	130.00	130.00	\$ -	\$ 179.00	0.00	23,270.00	23,270.00	
S6	DUCTILE IRON PIPE, 16" (INCLUDES REMOVAL OF EXISTING PIPE; EXCLUDES FITTINGS; C17)	0	LF	100.00	100.00	\$ -	\$ 179.00	0.00	17,900.00	17,900.00	
S7	INLET, TYPE B	0	UNIT	5.00	5.00	\$ -	\$ 5,500.00	0.00	27,500.00	27,500.00	
S11	RESTOCKING FEE	0	DOLLAR	4,313.25	4,313.25	\$ -	\$ 1.00	0.00	4,313.25	4,313.25	
					TOTAL OF CHANGE ORDER #1:						\$82,459.20
TOTAL PERCENT FOR THIS CHANGE ORDER:		3.04%									
PERCENT TOTAL CHANGE ORDER TO DATE OF ORIGINAL CONTRACT		3.04%									
AMOUNT OF ORIGINAL CONTRACT:				\$ 2,054,287.00							
PLUS CHANGE ORDER NO. 1:				62,469.20							
AMOUNT OF ADJUSTED CONTRACT:				\$ 2,116,666.20							

Recommended By:



Contractor



City Engineer

CONSTRUCTION FIELD ORDER

DATE: 1/15/16

DAY

S	M	T	W	T	F	S
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PROJECT TITLE Landis Ave Phase 1

PROJECT NO. 15-002

Weather	Bright Sun	Clear	Overcast	Rain	Snow
Temp.	To 32°	32°-50°	50°-70°	70°-85°	85° Up
Wind	Still	Moderate	High	Report No.	
Precip	Dry	Moderate	Humid	3	

FEATURE: DRAINAGE

CONTRACTOR _____ TYPE OF WORK _____

INSPECTOR _____

PROJECT ENGINEER _____

LOCATION OF PROPOSED FIELD ORDER
Intersections of Landis Avenue with 7 th Street and 6 th Street
NATURE OF AND REASON FOR PROPOSED FIELD ORDER
This field order will encompass direction given to the contractor on January 5, as well as dealing with electric utility conflicts which arose on Monday, January 11.
On 1/5, it became apparent that there was a conflict with existing gas main and proposed 16" DIP at the northeast and southeast corners of the intersection with 7 th Street. There were three (3) total conflicts. Two of the conflicts were at the northeast corner. One for the north/south run and one for the east/west run. All resulted in a need to drop the pipe size so that drainage could be installed above the existing gas.
Northeast corner (north/south) – The 16" pipe was swapped out with a single 8" pipe
Northeast corner (east/west) – The 16" pipe was swapped out with a single 8" pipe.
The east/west pipe entered an 8"x8" tee. To the south of the tee, an 8"x16" reducer was installed to connect to 16" (per plan) pipe.
Southeast corner (east/west) – the 16" pipe was swapped out with two – 8" pipes. East of the 16"x16" tee, a new manhole was installed.
On 1/11, the issue of the VMEU electric duct banks made itself evident. One duct bank runs across Landis Avenue along the 7 th Street Right-Of-Way, in line with the sidewalk on the westerly side of the street. The other runs across Landis Avenue along the 6 th Street Right-Of-Way, in line with the sidewalk on the easterly side of the street.
7 th St. Northwest corner – No clearance above the duct bank and going under would not work. Solution is to eliminate the proposed inlets (type A and B near 53+00 and 53+50 LHS) and piping and install a trench grate system above the duct bank, which will dive into a new B inlet to be installed as a doghouse on top of the 16" north/south line. Final design, including grade changes, to be completed by City Engineer. This location will require the installation of four (4) bollards, connected by steel chains to prevent falls. See sketch.
7 th St. Southwest corner – No clearance above the duct bank for 16" pipe. Solution is to eliminate the proposed westerly inlet and piping and install a trench grate system above the duct bank, which will terminate at the curb. A new A inlet will be constructed at this location.
6 th St. Southeast corner – The duct bank appears to follow the grade of the roadway and was not installed level. So, we are not able to follow the path of the proposed 16" pipe. Instead, we are able to install three – 8" pipes above the duct bank in the vicinity of an existing crossing of twin – 6" pipes. This results in a need to install a new A inlet. In addition, it was decided to abandon the concept of wyes and, instead, install inlets for these junction points. Another A inlet will also be installed in this area. See sketch.
6 th St. Northeast corner – There is sufficient room above the duct bank to install three – 8" pipes. The pipes will tie into a new E inlet. See sketch.
The discussion of how to resolve the duct bank conflicts resulted in DJM deciding that single 8" lines at 7 th Street was not the best solution. Contractor will be installing two additional runs of 8" pipe east/west (northeast corner) and one additional run of 8" pipe north/south (northeast corner). The tee and reducer will be eliminated. An E inlet will be installed.

CONSTRUCTION FIELD ORDER

AFFECTED PAY ITEMS AND QUANTITY CHANGES
B10 – "INLET, TYPE B" → -1 UNIT
B11 – "INLET, TYPE A" → -1 UNIT, +1 UNIT = WASH
B16 – " 16" DIP " → -158 LF
C15 – "RESET MANHOLE CASTING" → -1 UNIT
C16 – "INSTALL MANHOLE" → +1 UNIT
C17 – " 16" DIP " → -80 LF
S1 – " 8" DIP " → +400 LF
S7 – "INLET, TYPE E" → +4 UNITS
S8 – "TRENCH GRATE" → +95 LF
S9 – "BOLLARD SYSTEM" → +1 UNIT
ADDITIONAL NOTES

- DISTRIBUTION**
1. Contractor
 2. Inspector
 3. Office File

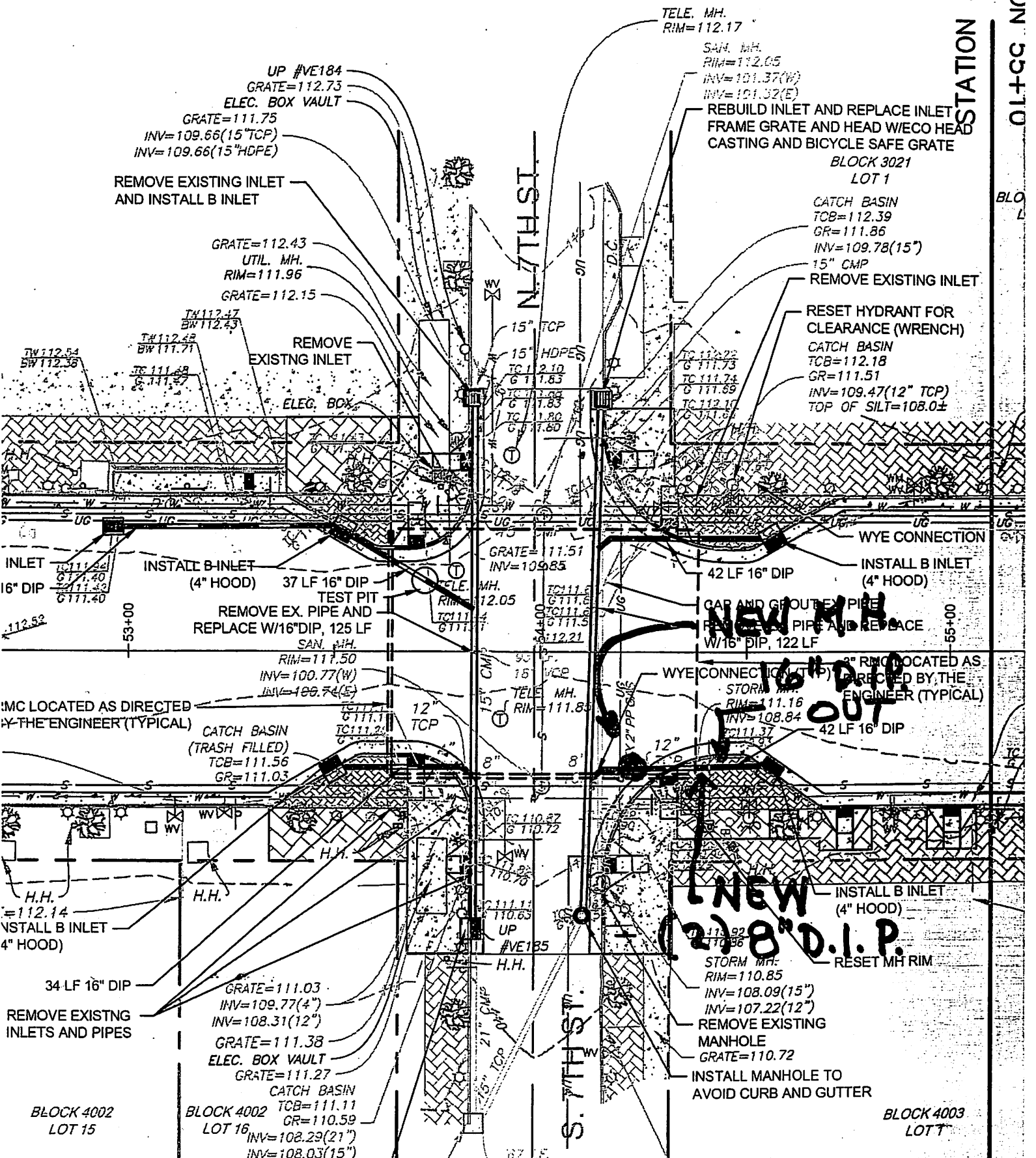
Contractor Signature _____

Inspector Signature _____

Project Engineer Signature _____

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STATION 55+10
BLOCK 3021
LOT 1



UP #VE184
GRATE=112.73
ELEC. BOX VAULT
GRATE=111.75
INV=109.66(15"TCP)
INV=109.66(15"HDPE)

TELE. MH.
RIM=112.17
SAN. MH.
RIM=112.05
INV=101.37(W)
INV=101.32(E)

REMOVE EXISTING INLET
AND INSTALL B INLET

REBUILD INLET AND REPLACE INLET
FRAME GRATE AND HEAD W/ECO HEAD
CASTING AND BICYCLE SAFE GRATE
BLOCK 3021
LOT 1

GRATE=112.43
UTIL. MH.
RIM=111.96
GRATE=112.15

CATCH BASIN
TCB=112.39
GR=111.86
INV=109.78(15")
15" CMP
REMOVE EXISTING INLET

REMOVE
EXISTING INLET

RESET HYDRANT FOR
CLEARANCE (WRENCH)
CATCH BASIN
TCB=112.18
GR=111.51
INV=109.47(12" TCP)
TOP OF SILT=108.0±

INLET
16" DIP
112.52
53+00
INSTALL B-INLET
(4" HOOD) 37 LF 16" DIP
TEST PIT
REMOVE EX. PIPE AND
REPLACE W/16"DIP, 125 LF
SAN. MH.
RIM=111.50
INV=100.77(W)
INV=109.74(E)

GRATE=111.51
INV=109.85
TELE. MH.
RIM=112.05
TC111.4
G111.5
TC111.6
G111.5
TC112.21

WYE CONNECTION
INSTALL B INLET
(4" HOOD)
42 LF 16" DIP
GAP AND GROUT EX. PIPE
NEW M.H.
INSTALL PIPE AND REPLACE
W/16" DIP, 122 LF

MC LOCATED AS DIRECTED
BY THE ENGINEER (TYPICAL)
CATCH BASIN
(TRASH FILLED)
TCB=111.56
GR=111.03

WYE CONNECTION (TYPICAL)
8" RMC LOCATED AS
DIRECTED BY THE
ENGINEER (TYPICAL)
STORM MH.
RIM=111.16
INV=108.84
TC111.37
G111.84
42 LF 16" DIP

H.H.
=112.14
INSTALL B INLET
4" HOOD)

NEW
12" 8" D.I.P.
INSTALL B INLET
(4" HOOD)
RESET MH RIM

34 LF 16" DIP
REMOVE EXISTING
INLETS AND PIPES

GRATE=111.03
INV=109.77(4")
INV=108.31(12")
GRATE=111.38
ELEC. BOX VAULT
GRATE=111.27
CATCH BASIN
TCB=111.11
GR=110.59
INV=108.29(21")
INV=108.03(15")

STORM MH.
RIM=110.85
INV=108.09(15")
INV=107.22(12")
REMOVE EXISTING
MANHOLE
GRATE=110.72
INSTALL MANHOLE TO
AVOID CURB AND GUTTER

BLOCK 4002
LOT 15

BLOCK 4002
LOT 16

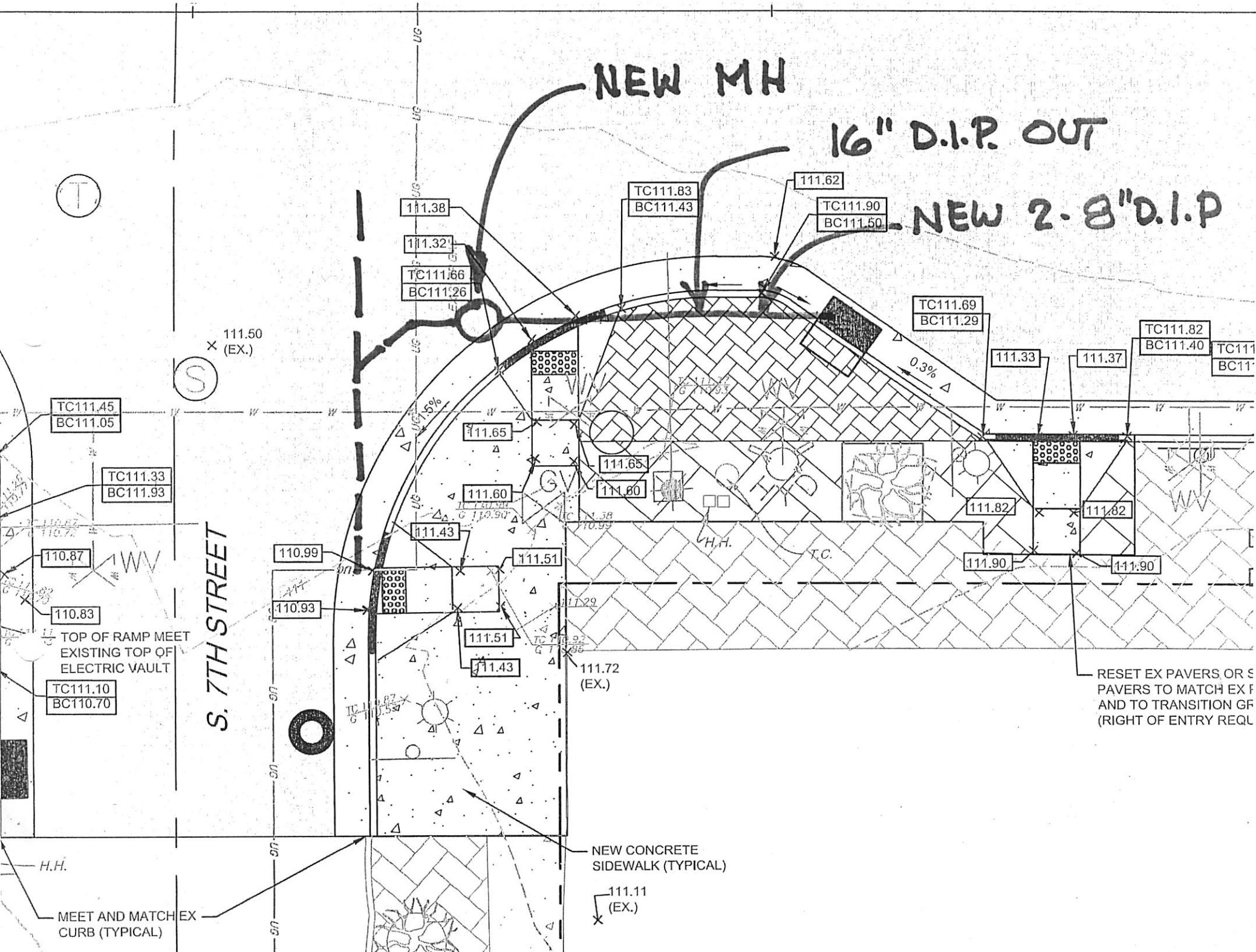
BLOCK 4003
LOT 1

NEW MH

16" D.I.P. OUT

NEW 2-8" D.I.P.

S. 7TH STREET



111.50 (EX.)

TC111.45
BC111.05

TC111.33
BC111.93

110.87

110.83

TOP OF RAMP MEET
EXISTING TOP OF
ELECTRIC VAULT

TC111.10
BC110.70

110.99

110.93

111.38

111.32

TC111.66
BC111.26

111.65

111.60

111.43

111.51

111.43

TC111.83
BC111.43

111.62

TC111.90
BC111.50

TC111.69
BC111.29

111.33

111.37

TC111.82
BC111.40

TC111.82
BC111.40

111.72 (EX.)

NEW CONCRETE
SIDEWALK (TYPICAL)

111.11 (EX.)

RESET EX PAVERS OR S
PAVERS TO MATCH EX F
AND TO TRANSITION GF
(RIGHT OF ENTRY REQL

MEET AND MATCH EX
CURB (TYPICAL)

0.3%

1.5%

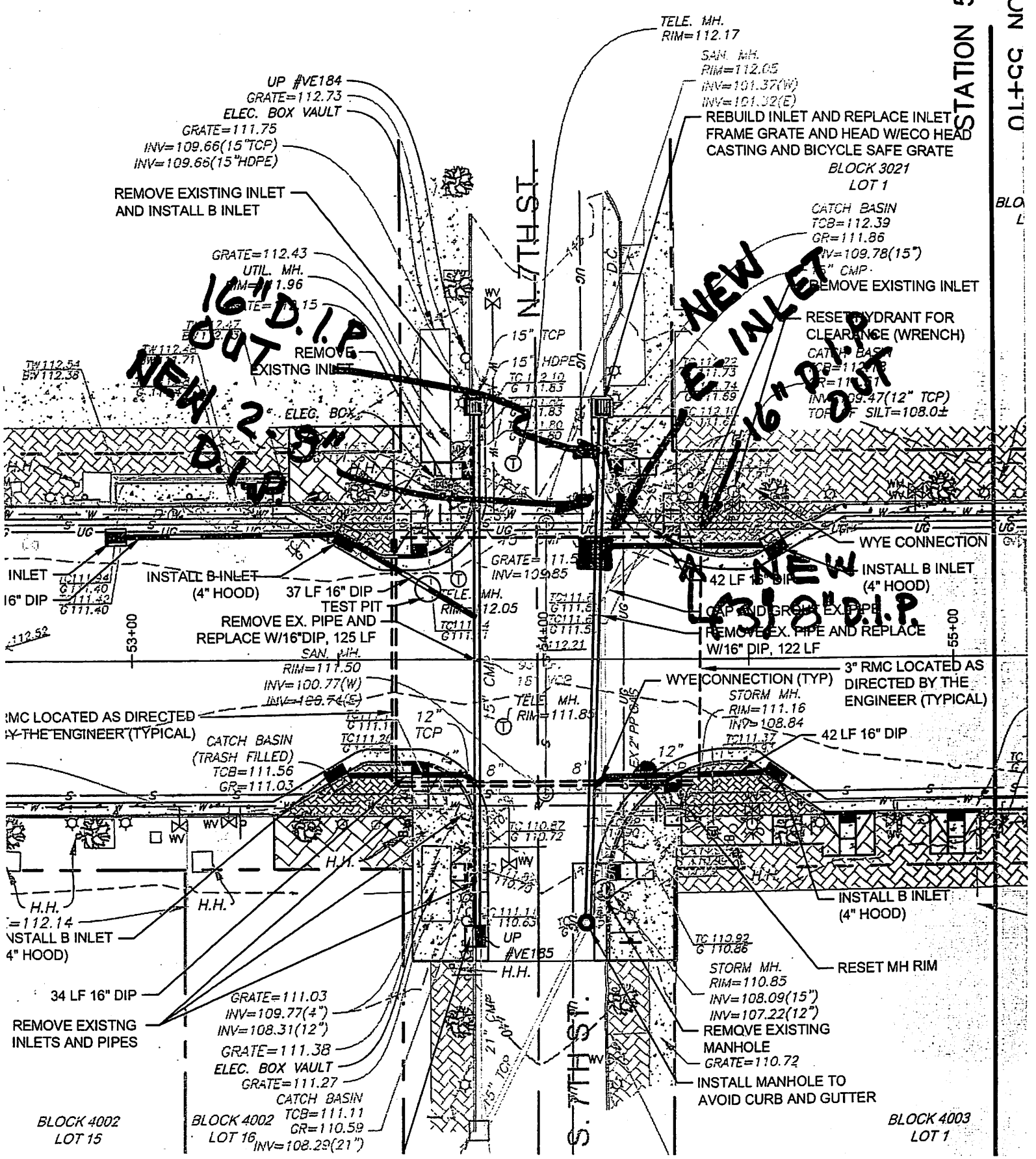
H.H.

T.C.

H.H.

50
50
50
50
50

STATION 55+10
BLOCK 4003
LOT 1



UP #VE184
GRATE=112.73
ELEC. BOX VAULT
GRATE=111.75
INV=109.66(15"TCP)
INV=109.66(15"HDPE)

REMOVE EXISTING INLET
AND INSTALL B INLET

GRATE=112.43
UTIL. MH.
RIM=11.96
GRATE=111.15
REMOVE EXISTING INLET
ELEC. BOX

TW 112.54
BV 112.38

TELE. MH.
RIM=112.17

SAN. MH.
RIM=112.05
INV=101.37(W)
INV=101.32(E)

REBUILD INLET AND REPLACE INLET
FRAME GRATE AND HEAD W/ECO HEAD
CASTING AND BICYCLE SAFE GRATE

BLOCK 3021
LOT 1

CATCH BASIN
TCB=112.39
GR=111.86
INV=109.78(15")
5" CMP.

REMOVE EXISTING INLET

RESET HYDRANT FOR
CLEARANCE (WRENCH)

CATCH BASIN
TCB=112.38
GR=111.86
R=111.87
INV=109.47(12" TCP)
TOP OF SILT=108.0±

INSTALL B-INLET
(4" HOOD) 37 LF 16" DIP
TEST PIT
REMOVE EX. PIPE AND
REPLACE W/16" DIP, 125 LF

SAN. MH.
RIM=111.50
INV=100.77(W)
INV=100.74(E)

GRATE=111.5
INV=109.85

TELE. MH.
RIM=12.05

NEW 42 LF 16" DIP
INSTALL B INLET
(4" HOOD)

REMOVE EX. PIPE AND REPLACE
W/16" DIP, 122 LF

3" RMC LOCATED AS DIRECTED
BY THE ENGINEER (TYPICAL)

CATCH BASIN
(TRASH FILLED)
TCB=111.56
GR=111.03

TELE. MH.
RIM=111.85

WYE CONNECTION (TYP)
STORM MH.
RIM=111.16
INV=108.84

3" RMC LOCATED AS DIRECTED BY THE
ENGINEER (TYPICAL)

INSTALL B INLET
(4" HOOD)

REMOVE EXISTING
INLETS AND PIPES

GRATE=111.03
INV=109.77(4")
INV=108.31(12")
GRATE=111.38
ELEC. BOX VAULT
GRATE=111.27
CATCH BASIN
TCB=111.11
GR=110.59
INV=108.29(21")

UP
#VE185

STORM MH.
RIM=110.85
INV=108.09(15")
INV=107.22(12")

REMOVE EXISTING
MANHOLE
GRATE=110.72

INSTALL MANHOLE TO
AVOID CURB AND GUTTER

BLOCK 4002
LOT 15

BLOCK 4002
LOT 16

BLOCK 4003
LOT 1

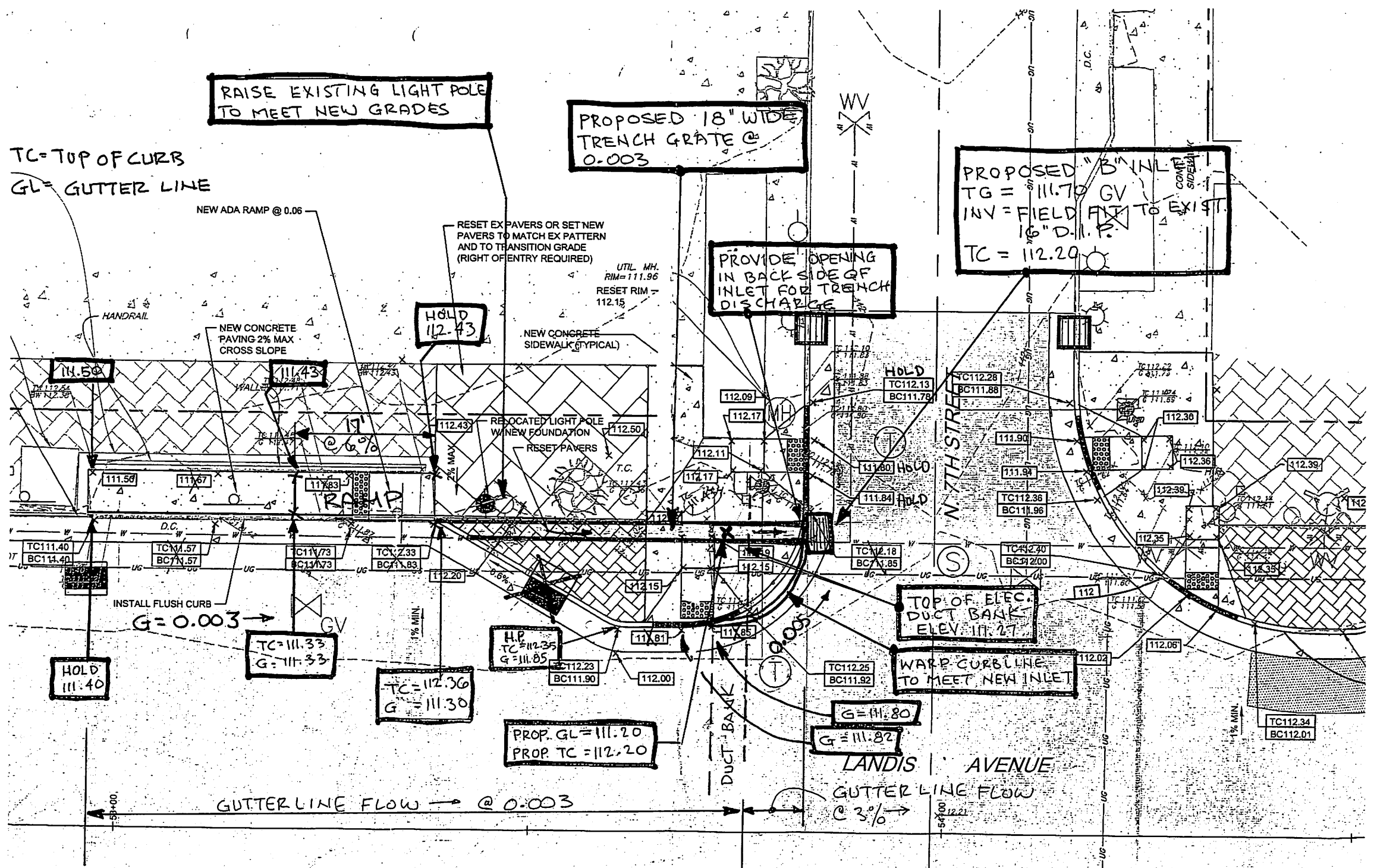
RAISE EXISTING LIGHT POLE TO MEET NEW GRADES

PROPOSED 18" WIDE TRENCH GRATE @ 0-003

PROPOSED "B" INLET
TG = 111.70 GV
INV = FIELD FIT TO EXIST.
16" D. I.P.
TC = 112.20

PROVIDE OPENING IN BACK SIDE OF INLET FOR TRENCH DISCHARGE

TC = TOP OF CURB
GL = GUTTER LINE



HOLD 112.43

HOLD TC112.13 BC111.78

111.50

111.43

112.43

112.50

112.09

112.17

112.11

112.17

111.80 HOLD

111.84 HOLD

TC112.28 BC111.88

TC112.22

111.85

111.85

111.90

111.94

TC112.36 BC111.96

TC112.40 BC112.00

112.35

112.35

112.06

112.06

TC112.34 BC112.01

INSTALL FLUSH CURB
G = 0.003

TC = 111.33
G = 111.33

TC = 112.36
G = 111.30

HP
TC = 112.35
G = 111.85

PROP. GL = 111.20
PROP. TC = 112.20

TOP OF ELEC. DUCT BANK
ELEV 111.27

WARD CURBLINE TO MEET NEW INLET

G = 111.80

G = 111.82

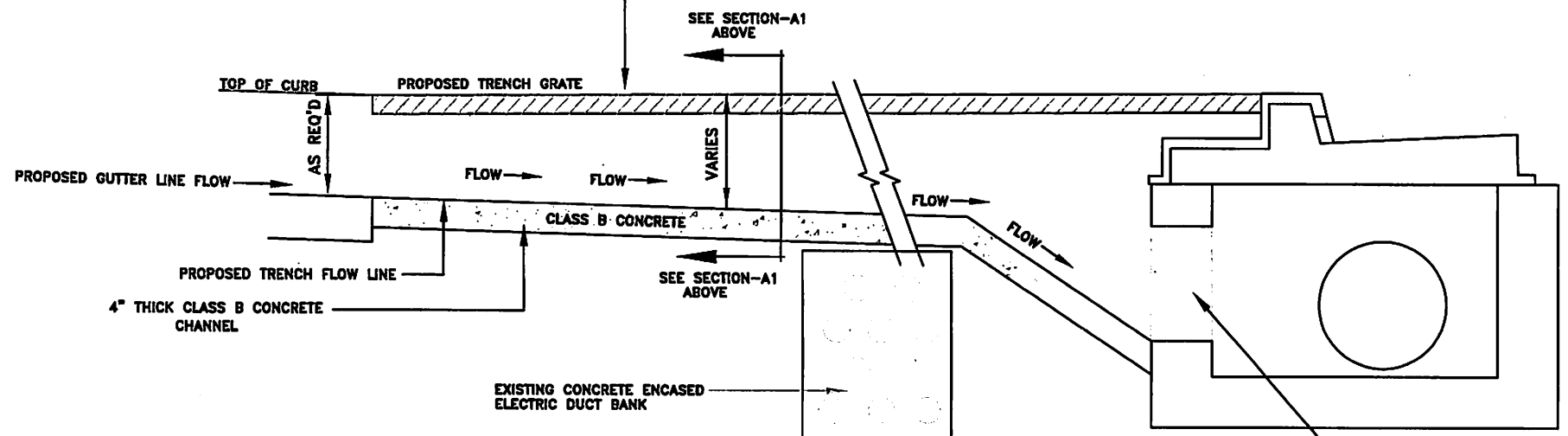
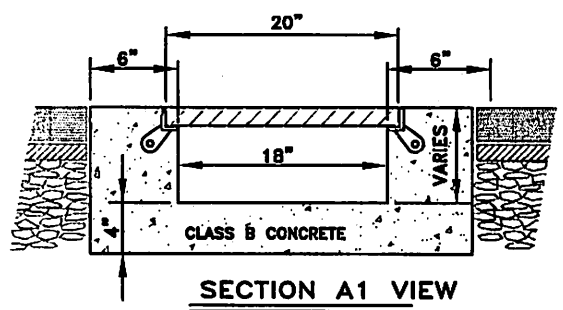
LANDIS AVENUE

GUTTER LINE FLOW @ 3%

GUTTER LINE FLOW @ 0.003



NEENAH FOUNDRY HEAVY DUTY TRENCH GRATE AND FRAME, MODEL R-4889-FX WITH SOLID LID TYPE D, AND SLOTTED GRATE TYPE P, WHERE REQUIRED



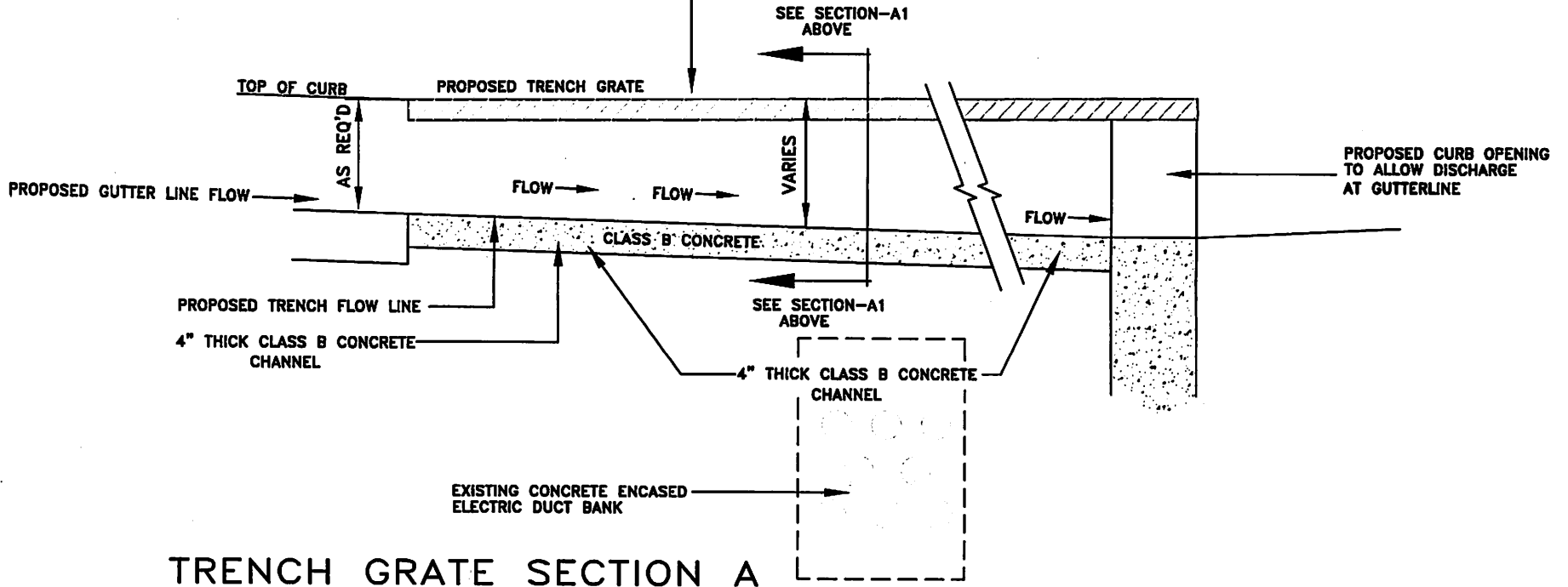
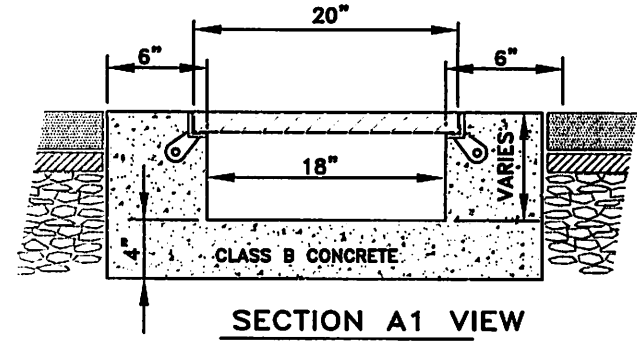
TRENCH GRATE SECTION A

N.T.S.
 NOTE: FINAL INSTALLATION SHALL BE AS PER MANUFACTURER SPECIFICATIONS.

PROPOSED INLET OPENING TO ALLOW GUTTERLINE DISCHARGE INTO INLET

**LANDIS & 7th STREET
 NORTH SIDE**

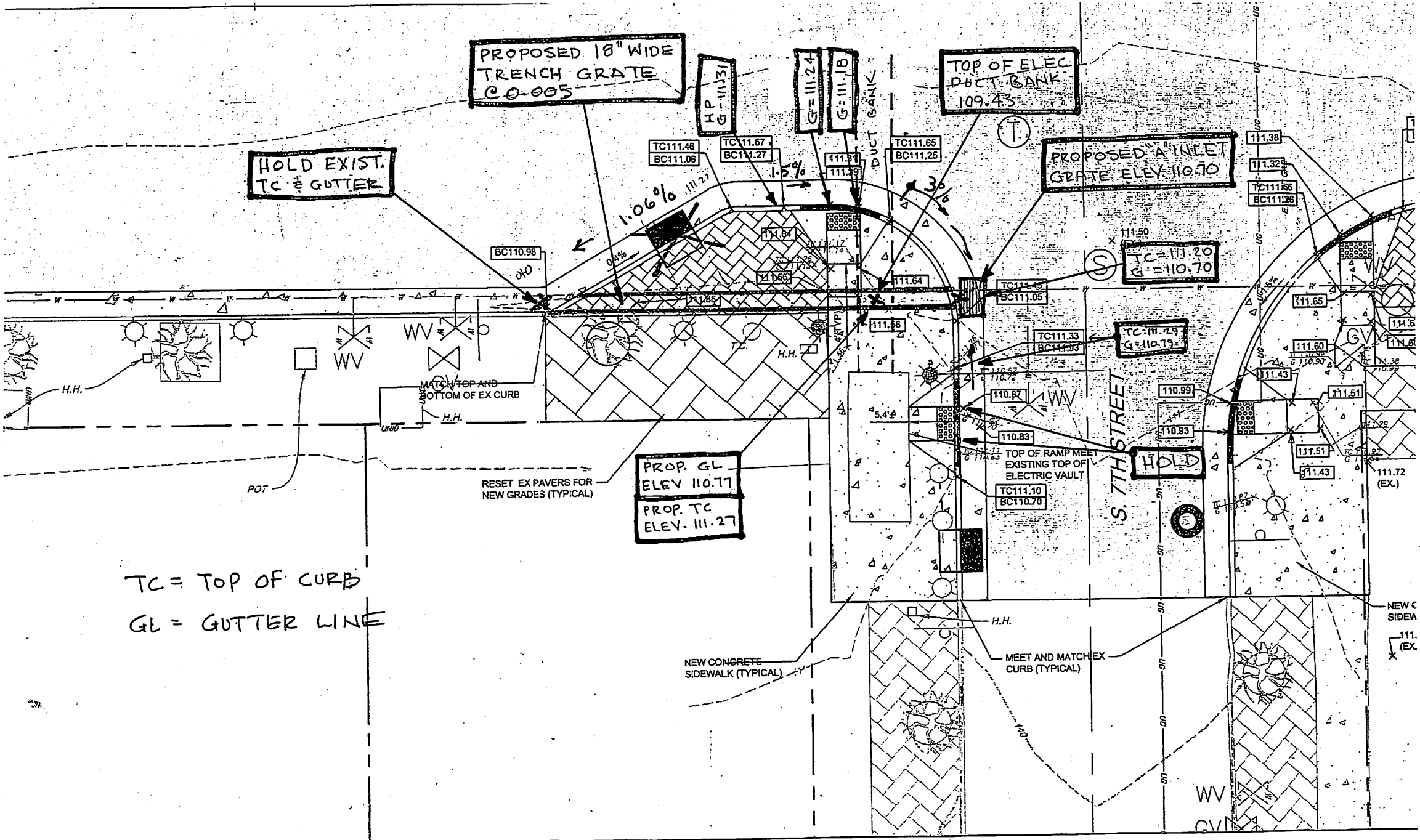
NEENAH FOUNDRY HEAVY DUTY TRENCH GRATE
AND FRAME, MODEL R-4999-FX WITH SOLID LID
TYPE D, AND SLOTTED GRATE TYPE P, WHERE REQUIRED



TRENCH GRATE SECTION A

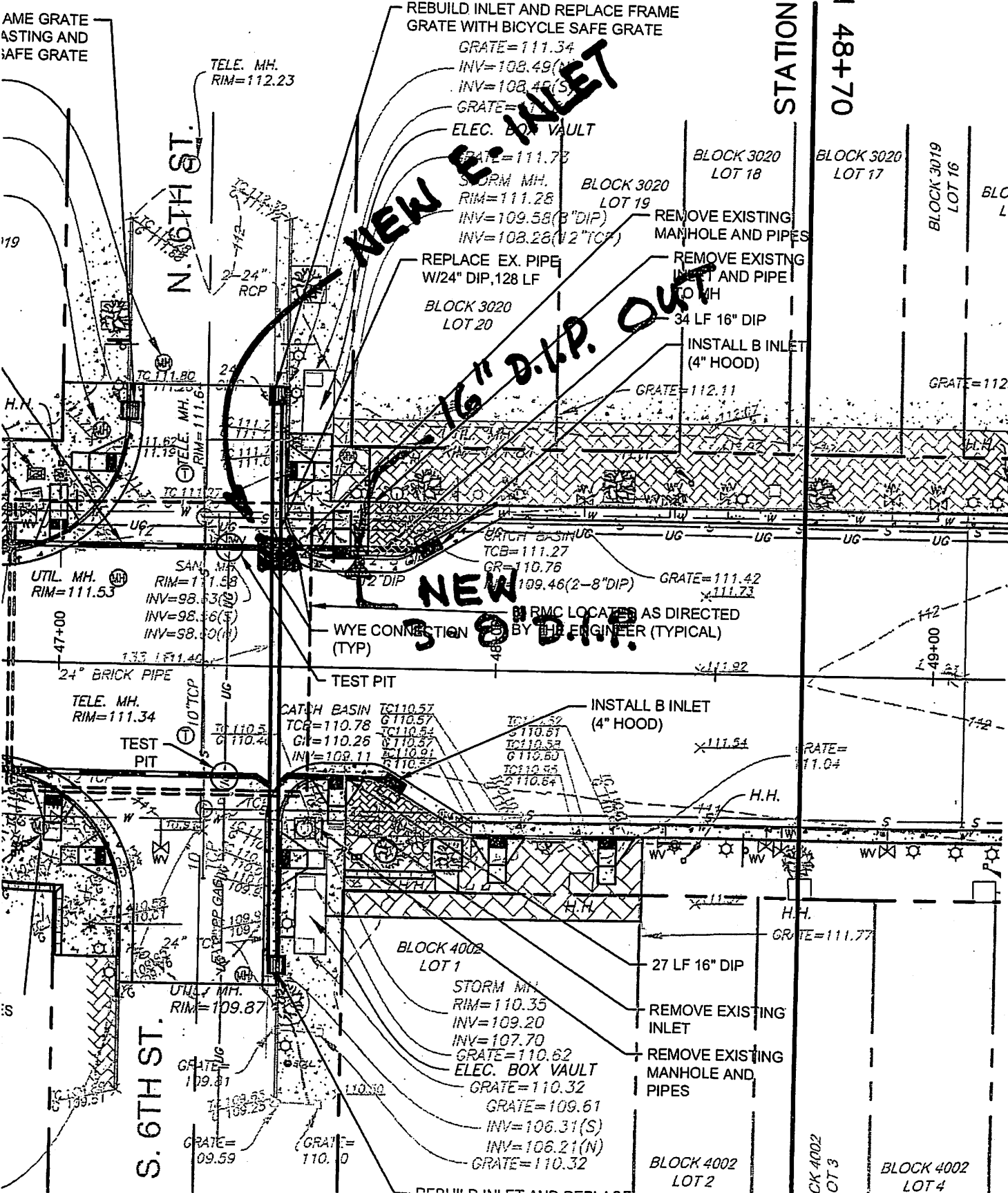
N.T.S.
NOTE: FINAL INSTALLATION SHALL BE
AS PER MANUFACTURER SPECIFICATIONS.

LANDIS & 7th STREET
SOUTH SIDE



LANDIS AVENUE 7TH STREET INTERSECTION
 SCALE: 1" = 10'

STATION 48+70
STATION 48+70



NEW 16" D.I.P. INLET

REBUILD INLET AND REPLACE FRAME
GRATE WITH BICYCLE SAFE GRATE

GRATE=111.34
INV=108.49(N)
INV=108.45(S)
GRATE=111.73

ELEC. BOX VAULT

GRATE=111.73
STORM MH.
RIM=111.28
INV=109.58(8" DIP)
INV=108.28(V2" TCF)

BLOCK 3020
LOT 18

BLOCK 3020
LOT 17

BLOCK 3019
LOT 16

BLOCK 3018
LOT 15

REMOVE EXISTING
MANHOLE AND PIPES

REPLACE EX. PIPE
W/24" DIP, 128 LF

BLOCK 3020
LOT 20

REMOVE EXISTING
INLET AND PIPE
TO MH

34 LF 16" DIP
INSTALL B INLET
(4" HOOD)

GRATE=112.11

GRATE=112.

NEW 8" D.I.P. OUTLET

WYE CONNECTION
(TYP)

RMC LOCATED AS DIRECTED
BY THE ENGINEER (TYPICAL)

GRATE=111.42
X111.73

TEST PIT

INSTALL B INLET
(4" HOOD)

CATCH BASIN
TC=110.57
TCQ=110.78
GR=110.25
INV=109.11

TC=110.57
TCQ=110.57
GR=110.57
INV=109.11

GRATE=111.04

BLOCK 4002
LOT 1

STORM MH.
RIM=110.35
INV=109.20
INV=107.70
GRATE=110.62
ELEC. BOX VAULT
GRATE=110.32
GRATE=109.61
INV=106.31(S)
INV=106.21(N)
GRATE=110.32

27 LF 16" DIP

REMOVE EXISTING
INLET

REMOVE EXISTING
MANHOLE AND
PIPES

BLOCK 4002
LOT 2

BLOCK 4002
LOT 4

S. 6TH ST.

N. 6TH ST.

REMOVE EXISTING
MANHOLE AND
SAFE GRATE

TELE. MH.
RIM=112.23

TELE. MH.
RIM=111.6

UTIL. MH.
RIM=111.53

SAN. MH.
RIM=111.58
INV=98.33
INV=98.36
INV=98.30

TELE. MH.
RIM=111.34

TEST PIT

UTIL. MH.
RIM=109.87

GRATE=109.81

GRATE=109.59

GRATE=110.0

119

H.H.

S

X111.92

X111.54

X111.77

X111.92

X111.92

X111.92

X111.92

X111.92

X111.92

X111.92

X111.92

X111.92

X111.92

X111.92

N. 6TH STREET

RESET EX PAVERS OR SET NEW PAVERS TO MATCH EX PATTERN AND TO TRANSITION GRADE

UTIL. MH. RIM=111.81

3 - D.I.P.

TC111.74
BC111.24

111.20

111.16

TC111.54
BC111.14

111.34

111.34

111.30

111.30

BC110.90

MATCH TOP OF EX CURB

TC111.38
BC111.05

111.01

TC111.23
BC110.90

110.97

TC111.26
BC110.93

NEW
E-INLET

1% SLOPE AT GUTTER LINES (MIN)
AT ALL ADA RAMPS (TYPICAL)

0.3%

S AVENUE

111.50
X (EX.)

48+00

ADDITIONAL EXISTING CEMENT CONCRETE
BASE COURSE REMOVAL. INSTALL NEW FULL
DEPTH PAVING. (TYPICAL)

110.84

110.72

110.64

TC110.89
BC110.56

TC111.13



STATION 48+70
STATION 48+70

REMOVE EXISTING AND
INSTALL BICYCLE SAFE GRATE

TELE. MH.
RIM=112.23

REBUILD INLET AND REPLACE FRAME
GRATE WITH BICYCLE SAFE GRATE

GRATE=111.34
INV=108.49(N)
INV=108.49(S)

GRATE=111.88
ELEC. BOX VAULT

GRATE=111.73
STORM MH.
RIM=111.28

BLOCK 3020
LOT 19

BLOCK 3020
LOT 18

BLOCK 3020
LOT 17

BLOCK 3019
LOT 16

BLOCK
LOT 15

N. 16TH ST.

REPLACE EX. PIPE
W/24" DIP, 128 LF

BLOCK 3020
LOT 20

REMOVE EXISTING
MANHOLE AND PIPES

REMOVE EXISTING
INLET AND PIPE
TO MH

34 LF 16" DIP

INSTALL B INLET
(4" HOOD)

NEW E INLET

GRATE=112.

UTIL. MH.
RIM=111.53

SAFETY MH.
RIM=111.58
INV=98.53(S)
INV=98.56(S)
INV=98.50(N)

GRATE=111.42
INV=109.46(2-8" DIP)

3" RCP LOCATED AS DIRECTED
BY THE ENGINEER (TYPICAL)

TEST PIT

INSTALL B INLET
(4" HOOD)

TELE. MH.
RIM=111.34

TEST PIT

CATCH BASIN
TCP=10.78
GIT=10.26
INV=109.11

GRATE=111.54
INV=110.81
GRATE=111.52
INV=110.80
GRATE=111.54
INV=110.81

GRATE=111.04

S. 6TH ST.

UTIL. MH.
RIM=109.87

NEW E INLET

INV=106.31(S)
INV=106.21(N)
GRATE=110.32

27 LF 16" DIP

REMOVE EXISTING
INLET

REMOVE EXISTING
MANHOLE AND
PIPES

BLOCK 4002
LOT 2

CK 4002
LOT 3

BLOCK 4002
LOT 4

BLOCK 4002
LOT 1

STORM MH.
RIM=110.35
INV=109.20
INV=107.70
GRATE=110.82
ELEC. BOX VAULT

H.H.

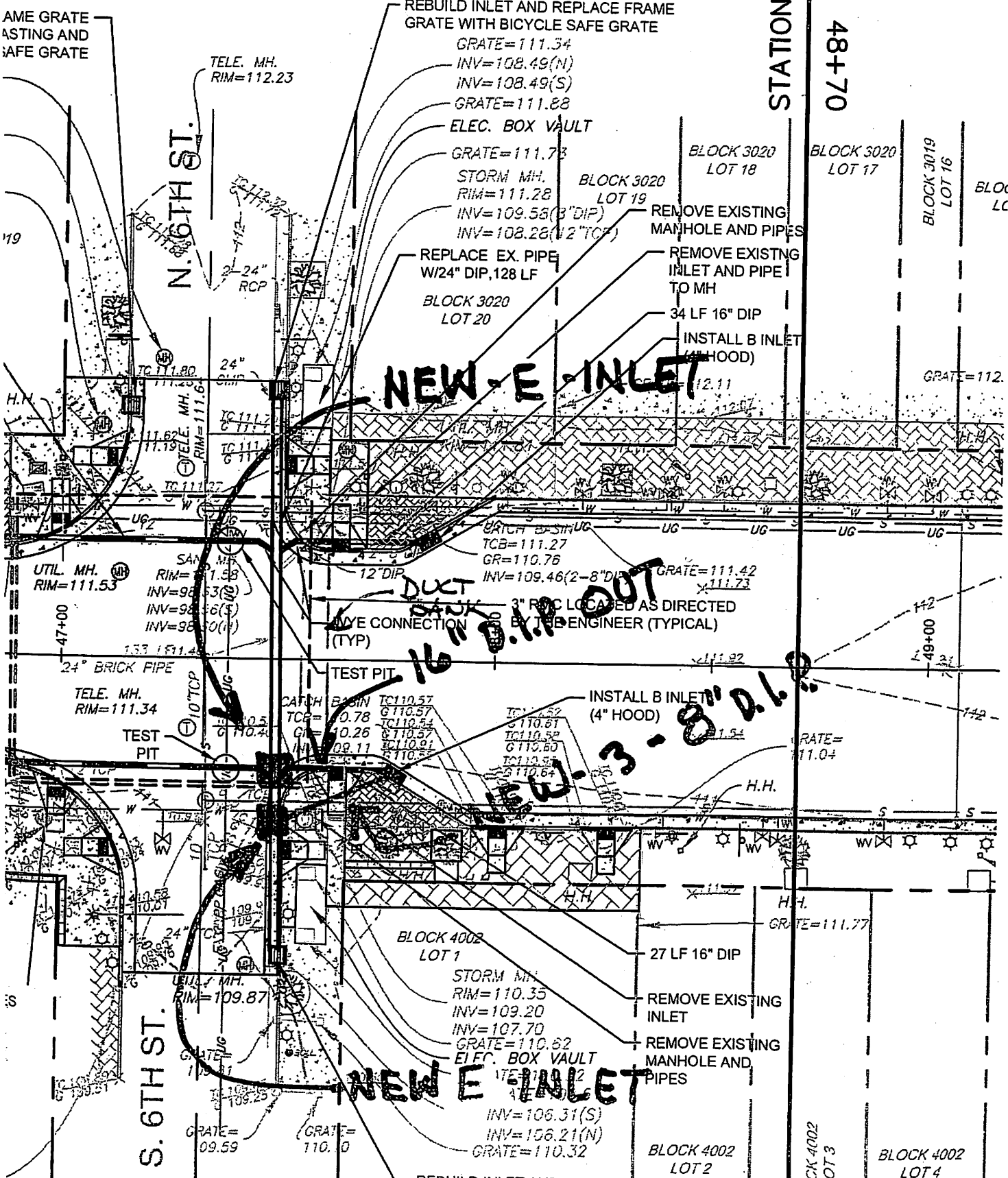
GRATE=111.77

DUCT
CONNECTION

3" RCP LOCATED AS DIRECTED
BY THE ENGINEER (TYPICAL)

TEST PIT

NEW E INLET 3'-8" D.I.P.



CONSTRUCTION FIELD ORDER

DATE: 1/15/16

DAY: S M **T** W T F S

PROJECT TITLE Lad's Phase 1 PROJECT NO. 15-002

FEATURE Drainage 7th & Lad's

CONTRACTOR Moran Inc TYPE OF WORK _____

INSPECTOR Joe

PROJECT ENGINEER David Maillet

Weather	Bright Sun	Clear	Overcast	Rain	Snow
Temp.	To 32°	32°-50°	50°-70°	70°-85°	85° Up
Wind	Still	Moderate	High	Report No.	
Precip	Dry	Moderate	Humid	2	

LOCATION OF PROPOSED FIELD ORDER

Lad's Ave @ 7th Street between Sta. 54+00 and 55+00

① SE corner ~~and~~ ② crossing Lad's and ③ NE corner

NATURE OF AND REASON FOR PROPOSED FIELD ORDER

① gas conflict requiring addition of Manhole and installation of twin 8" DIP instead of ^{single} 16" proposed. This will put storm below conflict gas.

② ~~③~~ gas conflicts requiring us to drop ^{single} 16" to single 8" and install reducers to get back to 16".

AFFECTED PAY ITEMS AND QUANTITY CHANGES

① C16 (Manhole) +1 unit ; C17 (16" DIP) - XX' ; S1 (8" DIP) + XX'

②③ C17 (16" DIP) - XX' ; S1 (8" DIP) + XX' ; S2 (FITTINGS) + XX%

ADDITIONAL NOTES

- DISTRIBUTION**
1. Contractor
 2. Inspector
 3. Office File

Contractor Signature John 75

Inspector Signature Robert Gallagher

Project Engineer Signature D

CONSTRUCTION FIELD ORDER

DATE: 11/8/15

DAY:

S	M	T	W	T	F	S
---	---	---	---	---	---	---

PROJECT TITLE Land's Phase 1 PROJECT NO. 15-002

FEATURE D11; D18

CONTRACTOR Prime TYPE OF WORK Storm

INSPECTOR Rob Gallagher

PROJECT ENGINEER D.M.

Weather	Bright Sun	Clear	Overcast	Rain	Snow
Temp.	To 32°	32°-50°	50°-70°	70°-85°	85° Up
Wind	Still	Moderate	High	Report No.	
Precip	Dry	Moderate	Humid	1	

LOCATION OF PROPOSED FIELD ORDER

Intr East & Landis, South side

$\begin{matrix} \uparrow \\ \text{D11} \end{matrix}$
b6+20.5 ~~00~~ RHS and
between
 $\begin{matrix} \uparrow \\ \text{D18} \end{matrix}$
b6+30.37 and
b6+46.13
RHS

NATURE OF AND REASON FOR PROPOSED FIELD ORDER

- ① In constructing storm system from NE corner around to @ Landis Ave today, contractor has lost grades due to conflicts w/ gas and electric utilities. In order to ensure that system will still function, will drop quantity for D18, "16" DIP" and instead install twin 8" pipes. Need C.O. request
- ② Also, exist inlet @ b6+20.5 RHS is grossly undersized for proposed piping. Instead of conversion, installing new manhole.

AFFECTED PAY ITEMS AND QUANTITY CHANGES

per plan 83 LF
per h 00 (DIM) JK

- ① D18 to decrease by 38 LF. Supplemental pay item for 8" DIP in amount of 76 LF
DIM per plan 166 LF ≈ 160 (DIM) JK
- ② D11 to decrease by 1 UNIT, D14 "Remove Draining Structure" and D16 "Install Manhole" to increase by 1.

ADDITIONAL NOTES

- DISTRIBUTION**
1. Contractor
 2. Inspector
 3. Office File

Contractor Signature John King

Inspector Signature Robert Gallagher

Project Engineer Signature D.M.

