ALLEGHENY COUNTY SANITARY AUTHORITY

December 22, 2020

CONTRACT NO. 1729 G, E, H, P

EAST HEADWORKS

ADDENDUM NO. 2

All bidders bidding Contract No. 1729 G, E, H, P shall read and take note of this Addendum No. 2. The Contract Documents for **Contract No. 1729 G, E, H, P – East Headworks** are hereby revised and/or clarified as stated below.

Acknowledgement of Contract No. 1729 G, E, H, P; Addendum No. 2

The Acknowledgement attached to Addendum No. 2 is to be signed and returned immediately via email to Dustin Copenhaver at Dustin.Copenhaver@alcosan.org and acknowledged with the Bidder's Proposal.

Kimberly C. Kennedy

Kimberly Kennedy, P.E.
Director – Engineering and Construction

ACKNOWLEDGEMENT OF

CONTRACT NO. 1729 G, E, H, P – EAST HEADWORKS

ADDENDUM NUMBER 2

FIRM NAME: ____

SIGNATURE: ____

TITLE: ____

DATE: ____

DECEMBER 22, 2020

CONTRACT NO. 1729 G, E, H, P

EAST HEADWORKS

ADDENDUM NO. 2

DECEMBER 22, 2020

CONTRACT NO. 1729 G, E, H, P

EAST HEADWORKS

ADDENDUM NO. 2

A. Contract Documents – Volume 1

1. Article 1
   a) Item 01 of the paragraph 8.2 Unit Price Work: Replace the 51,500 VLF with 57,500 VLF for the 18-inch diameter auger cast piles (Type C)

   b) Item 02 of the paragraph 8.2 Unit Price Work: Replace the 7,700 VLF with 1,900 VLF for the 18-inch diameter auger cast piles (Type T)

2. Article 4
   a) Item 01 of the Item #2 Unit Price Work: Replace the 51,500 VLF with 57,500 VLF for the 18-inch diameter auger cast piles (Type C)

   b) Item 02 of the Item #2 Unit Price Work: Replace the 7,700 VLF with 1,900 VLF for the 18-inch diameter auger cast piles (Type T)

B. Contract Specifications – Volume 2

None

C. Contract Specifications – Volume 3

None

D. Contract Drawings

1. Drawing CDM-01
   a) DELETE KEYNOTE, Note 3 and REPLACE with the following: "DEMO PIPE GALLERIES (SEE SHEET 520-SDM-10 FOR PIPE GALLERY TUNNEL DEMOLITION PLAN)".

2. Drawing CDM-02

   a) DELETE this drawing and REPLACE with the attached drawing CDM-02.

3. Drawing C-22

    a) DELETE this drawing and REPLACE with the attached drawing C-22.

4. Drawing C-24

    a) DELETE this drawing and REPLACE with the attached drawing C-24.

5. Drawing C-25

    a) DELETE this drawing and REPLACE with the attached drawing C-25.

6. Drawing C-50

    a) DELETE this drawing and REPLACE with the attached drawing C-50.

7. Drawing C-51

    DELETE this drawing and REPLACE with the attached drawing C-51

8. Drawing 515-S-10

    a) DELETE keynote #3 label on the East/West run of the channel, above the dimension “14 SPACES AT 4’-6” = 63’-0” “

9. Drawing 530-S-40

    a) ADD the following GENERAL SHEET NOTES:

    “GENERAL SHEET NOTES

    1. ALL PILES ARE TYPE C PILES UNLESS NOTED OTHERWISE.

    2. UNLESS NOTED OTHERWISE, DETERMINE PILE CUT-OFF ELEVATIONS BASED ON ELEVATIONS OF SUPPORTED CONCRETE ELEMENTS AND REQUIRED PILE EMBEDMENT AS INDICATED IN THE TYPICAL DETAILS.”

10. Drawing 534-S-10

    a) DELETE SHEET KEYNOTES, Note 1 and REPLACE with the following: “PROVIDE TENSION PILES (TYPE T) FOR ALL PILE ALONG CENTERLINE (14 TOTAL).”

b) ADD Dimension “12 EQ SPA = 64’-10”” along grid line 3 for the typical 13 piles columns.

E. Questions

1. **QUESTION:** What is ALCOSAN's expectation regarding limits of available space for construction outside of those areas delineated as laydown areas on drawing sheet G-13?

   RESPONSE: There is no more available space.

2. **QUESTION:** Will a BIM model be provided?

   RESPONSE: No

3. **QUESTION:** Are there any dry systems for the fire sprinklers and if so will they require a nitrogen generator?

   RESPONSE: There are no dry pipe sprinkler systems specified.

4. **QUESTION:** What specific Buy American code must be met regarding the supply of louvers?

   RESPONSE: Per Articles 3.76 and 3.77, compliance shall be in accordance with the Pennsylvania Steel Products Procurement Act.

5. **QUESTION:** Reference Article 4, Contract No. 1729 G, page 4-7G item 3. This item describes the liquidated damages and bonus associated with the work described in MAINTENANCE OF PLANT OPERATIONS (MOPO) Specification 015200.1.9.F and 015200.1.9.G.
   a. In 4-7G, item 3 it indicates “shutdown as described in 015200.1.9.F must be completed in a maximum of fourteen (14) days”. However, in 015200.1.9.F.2 it indicates “Maximum Shutdown Duration: 5-weeks”. Please clarify the intention as it appears the shutdown durations contradict between these two portions of the contract documents.
   b. In 4-7G, item 3 it indicates “MOPO Specification 015200.1.9.G requires a second shutdown…..outage shall have a maximum duration of five (5) days”. However, in 015200.1.9.G.2 it indicates “Maximum Shutdown Duration: 2-weeks”. Please clarify the intention as it appears the shutdown durations contradict between these two portions of the contract documents.

   RESPONSE: This question was addressed in Addendum No. 1

6. **QUESTION:** Reference specification 312100, 1.5.A.2 which indicates “The Owner has had several subsurface test borings made at the specific locations shown on the Drawings. Geotechnical data, including Driller’s boring logs and laboratory test results, are part of the Geotechnical Report, and may be made available to the Contractor.” We would like to have copies of any such information provided for consideration when preparing our bid.

   RESPONSE: Please reference the “REFERENCE DOCUMENTS” folder on the purchased flash drive.

7. **QUESTION:** Reference drawing CDM-01, keynote 1 which indicates to remove all existing curb, gravel, and concrete in the location of the new headworks building. What information is available about these existing materials so bidders can understand and quantify the effort that will be required to perform this work. During the pre-bid meeting a comment was made that foundations from the previous O&M building may still exist in this location, if this is the case, please clearly indicate what remains for removal under this contract. If such information is not available which would allow the bidders to quantify the efforts required for removal, we suggest that all of this work be included within unit price work ITEM 07 - REMOVAL OF UNKNOWN CONCRETE AND MASONRY STRUCTURES.

   RESPONSE: Please reference the “REFERENCE DOCUMENTS” folder on the purchased flash drive. Any concrete or masonry removal from the site of the demolished O&M building (Contract 1691) identified as remaining should be considered in the lump sum cost.

8. **QUESTION:** Reference General Note No. 3 from drawing 500-M-71 (332 of 645) which describes information available from previous contract no. 1336. Please provide this information for consideration when preparing our bid.

   RESPONSE: Please reference the “REFERENCE DOCUMENTS” folder on the purchased flash drive.

9. **QUESTION:** Please provide the engineers estimate of probable construction cost for each contract.

   RESPONSE:

	Low	High
General	$85,000,000	$102,000,000
Electrical	$14,000,000	$17,000,000
Plumbing	$3,000,000	$4,000,000
HVAC	$3,000,000	$4,000,000
Total	$105,000,000	$127,000,000

10. **QUESTION:** Drawing C-11 (sheet 35 of 645) shows concrete pavement and refers to drawing CD-10 (sheet 56 of 645), detail 3 which shows a section cut of the concrete pavement with the thickness of the pavement labeled as “D”. What is the depth of the concrete pavement?

    RESPONSE: The depth of the concrete pavement is 8-inches.

11. **QUESTION:** In response to our questions below, please also verify the bid form quantities of Type C & Type T auger cast piles are accurate.

    RESPONSE: The quantity of Type T piles for Facility 534 was over estimated. Type T piles is only required for piles along the centerline that has the keynote 1 designation (total of 14 piles). The original estimated quantities for Type T piles incorrectly counted all piles along the centerlines to be Type T piles.

    a. Sheet 515-S-10 note 1 says all piles are Type C unless noted otherwise. On the East/West run of the channel there is a #3 box (tension test pile) pointing to what appears to be a Type C compression pile. Please verify if the piles under this East/West channel are Type C or Type T piles?

    RESPONSE: Piles under the East/West channel are Type C piles. Tension piles are designated with Sheet keynote 2 on this sheet.
    Please delete the keynote #3 on the East/West run of the channel. There is only one tension test pile on this sheet as indicated in the table on Sheet S-20. This tension test pile is located approximately in the middle of the pile caps (i.e. 2-pile and 4-pile pile cap).

    b. Sheet 530-S-03 shows all piles being Type C including the upper slab and pile caps. Other parts of the building show some pile caps as Type T. Please verify these are all Type C as shown?

    RESPONSE: Yes, piles are Type C unless noted otherwise. There are no Type T piles on this sheet.

    c. Sheet 530-S-04 same previous question, some pile caps show Type T and others there are no call outs for Type T. Please clarify all pile on the drawing.

    RESPONSE: Piles are Type C unless noted otherwise. Tension Piles (Type T piles) are designated with Sheet Keynote 1. No additional clarification will be provided.

d. Sheet 530-S-40 there is no call out for pile type. Please verify if these are Type C?

RESPONSE: Piles under the Transition Structure are Type C piles.

F. Clarifications

(No Items)

Attachments:

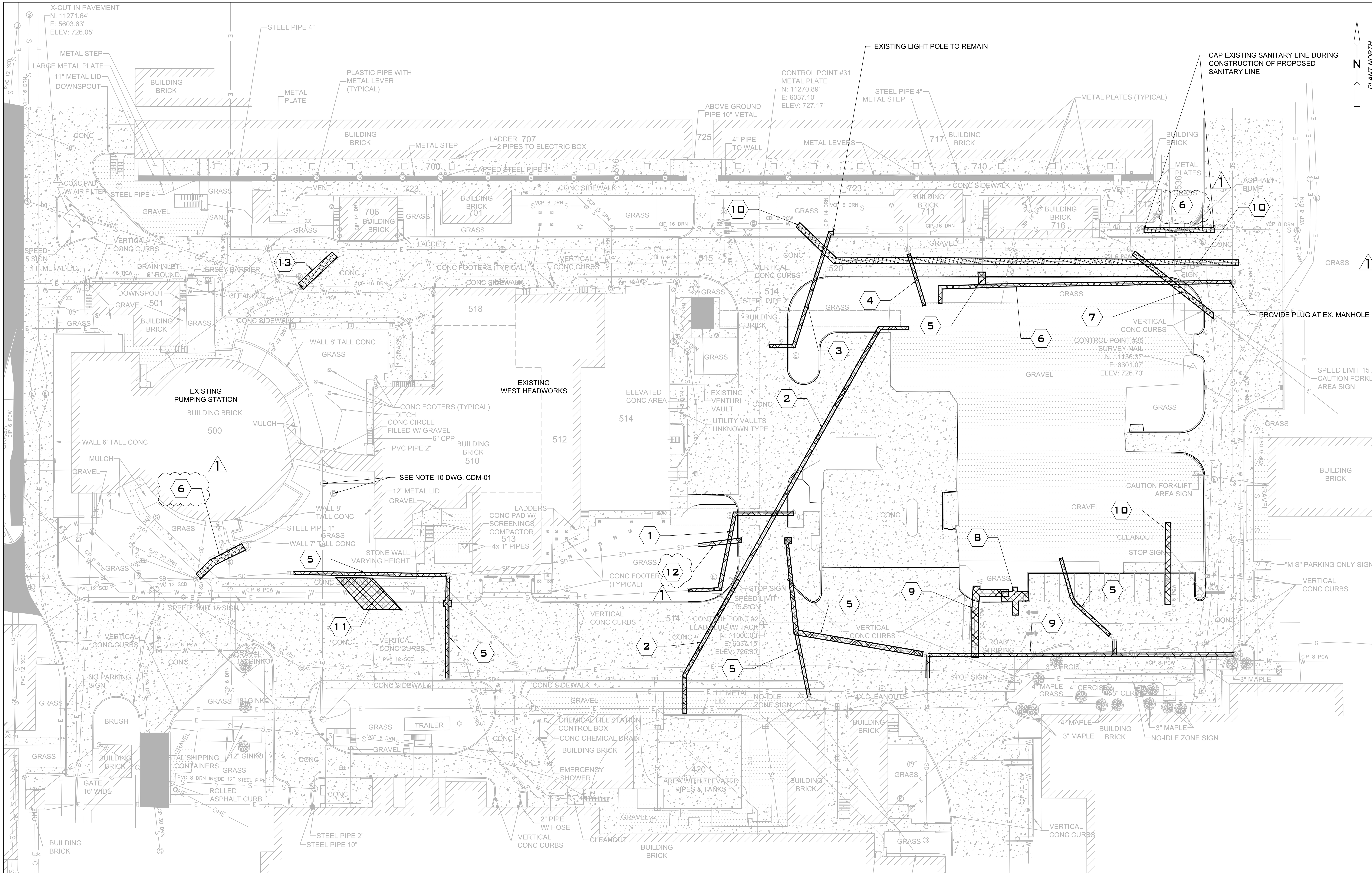
Specifications:

None

Drawings:

CDM-02
C-22
C-24
C-25
C-50
C-51

*** * * * END OF ADDENDUM NO. 2 * * * ***



UTILITY DEMOLITION PLAN 1

SCALE: 1" = 30' HORIZ.

0 30' 60'

SCALE: 1" = 30'-0"

X KEYNOTES

1. REMOVE EXISTING ELECTRIC AND ASSOCIATED LIGHT POLES
2. REMOVE EXISTING ABANDONED DUCT BANK TO THE EXTENT REQUIRED FOR CONSTRUCTION OF NEW WORK
3. REMOVE ELECTRIC
4. REMOVE DUCT BANK
5. REMOVE EXISTING STORM DRAIN, DUCTS, AND MANHOLES. SEE DWG. C-41 AND C-42 FOR STORMWATER PIPING PLAN.
6. REMOVE SANITARY DRAIN
7. REMOVAL AND REPLACEMENT OF DUCTBANK AND RE-ROUTING OF CABLES ARE BEING PERFORMED IN A SEPARATE CONTRACT REF. 1739. COORDINATE TIMING OF EXCAVATION IN THIS AREA WITH CONSTRUCTION MANAGER.
8. REMOVE ELECTRIC, A LIGHT POLE AND JUNCTION BOX
9. REMOVE EXISTING ASBESTOS CONCRETE WATERLINE AS NECESSARY FOR CONSTRUCTION
10. ASBESTOS CONCRETE WATERLINE, ALREADY ABANDONED. CONTRACTOR TO REMOVE.
11. EXISTING UTILITIES TO BE SUPPORTED DURING CONSTRUCTION OF THE PROPOSED 120" PIPE.
12. REMOVE PARTIAL EXISTING STORMDRAIN PIPE
13. REMOVE EXISTING SANITARY SEWER FOR NEW 24" DIAMETER PLANT DRAIN

GENERAL NOTES

1. ALL MONITORING WELLS WILL BE ABANDONED IN PLACE.
2. THE CONTRACTOR'S MEANS AND METHODS FOR SUPPORT OF EXCAVATION AND DEWATERING SHALL BE SUCH THAT THE EXISTING DUCT BANKS AND SERVICE ARE TO BE MAINTAINED IN PLACE AT ALL TIMES.
3. ENGAGE A PROFESSIONAL ENGINEER TO PERFORM AN ENGINEERING SURVEY OF CONDITION OF BUILDING TO DETERMINE WHETHER REMOVING ANY ELEMENT MIGHT RESULT IN STRUCTURAL DEFICIENCY OR UNPLANNED COLLAPSE OF ANY PORTION OF STRUCTURE OR ADJACENT STRUCTURES DURING SELECTIVE BUILDING DEMOLITION OPERATIONS.
4. TEMPORARY SHORING: DESIGN, PROVIDE, AND MAINTAIN SHORING BRACING, AND STRUCTURAL SUPPORTS AS REQUIRED TO PRESERVE STABILITY AND PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF CONSTRUCTION AND FINISHES TO REMAIN, AND TO PREVENT UNEXPECTED OR UNCONTROLLED MOVEMENT OR COLLAPSE OF CONSTRUCTION BEING DEMOLISHED.
5. UTILITIES TO REMAIN AND BE SUPPORTED DURING CONSTRUCTION.
6. REFER TO ELECTRICAL PLANS FOR KEYNOTES 1,3,4,7 & 8.

Designed by:	REV No.	DATE	DESCRIPTION	APPV
JRS	0	10/28/20	ISSUED FOR BIDS	
Drawn by:	1	12/22/20	ADDENDUM 2	
TPM				
Checked by:				
KPK				

REVISION

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COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL ENGINEER
JOHN D. HARDING
PE074914
December 22, 2020

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ALLEGHENY COUNTY SANITARY AUTHORITY
WASTEWATER TREATMENT PLANT
EAST HEADWORKS

CDM-02
UTILITY DEMOLITION PLAN

Contract: 1729

CAD File Name: CDM-02 UTILITY DEMOLITION.DWG

Date: OCTOBER 2020

Sheet: 33 OF 645

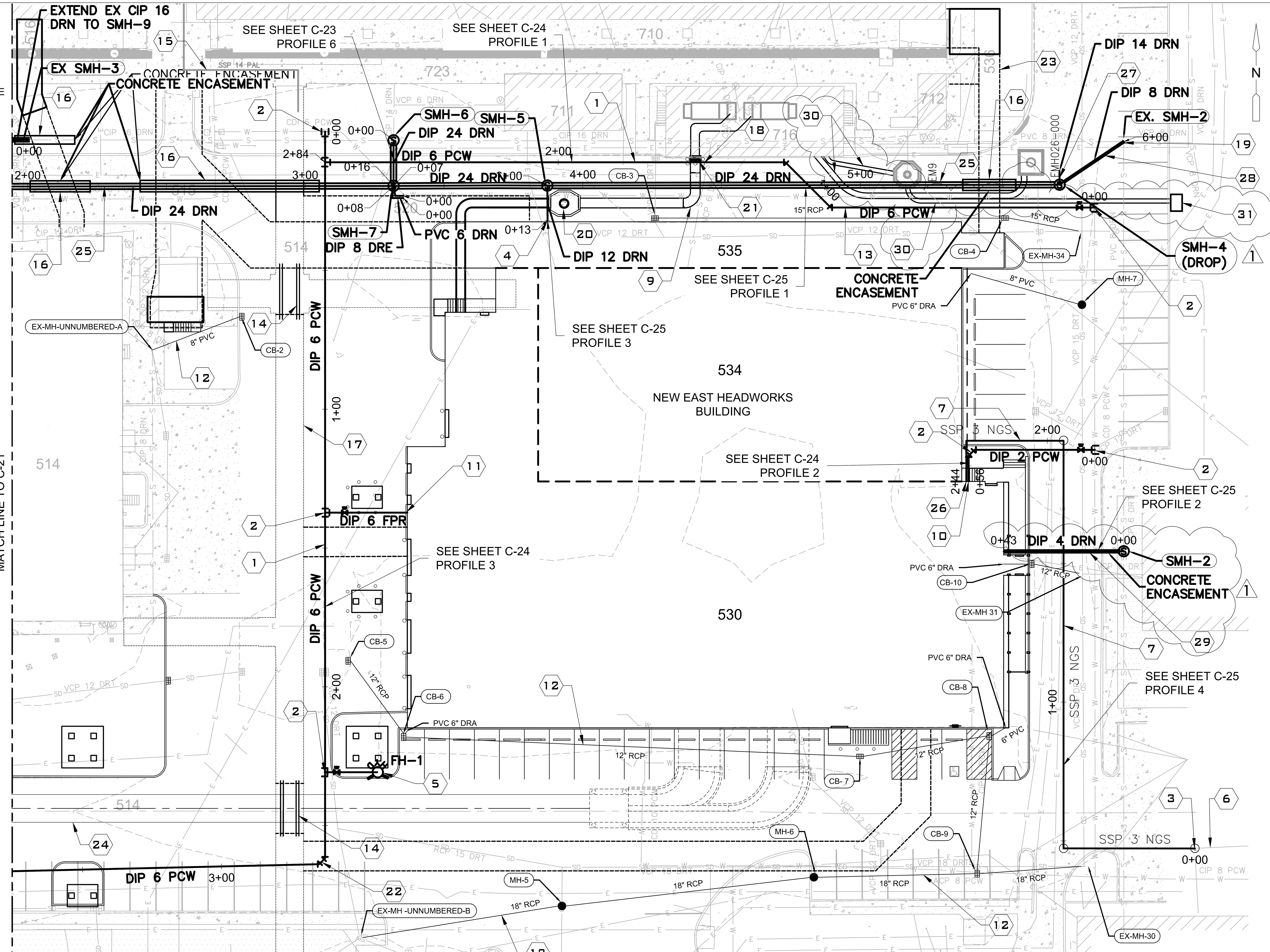
KEYNOTES

1. NEW 6" WATER LINE
2. WATERLINE 6" x 6" CONNECTION, AND NEW 6" VALVE (SEE PROFILE ON C-24)
3. NEW 3" GAS LINE CONNECTION TO EXISTING GAS LINE - 3" TEE FITTING AND NEW BURIED PLUG VALVE
4. TANK LINE DRAIN (8" SANITARY) SEE 530-M-09 FOR CONTINUATION
5. 6" WATERLINE TO FIRE HYDRANT ASSEMBLY (FH-1) (SEE DETAIL NUMBER 7, SHEET CD-10)
6. APPROXIMATE LOCATION OF EXISTING 3" GAS LINE LOCATION FOR CONNECTION
7. NEW 3" GAS LINE
8. NEW SANITARY MANHOLE SMH-1
9. CABLE ELECTRIC DUCTBANK
10. NEW 2" WATER LATERAL WITH 6" x 2" REDUCER
11. NEW 6" FIRE SUPPRESSION LINE TO BUILDING
12. NEW STORM DRAIN (SEE SHEET C-41 AND C-42 FOR STORM DRAINS)
13. NORTH WATERLINE RELOCATION (SEE SHEET C-24 FOR PROFILE)
14. NEW (PIPE GALLERY UTILITIES)
15. ABOVE GRADE AIR LINE
16. CONCRETE ENCASEMENT FOR NEW PLANT DRAIN (SEE PROFILES)
17. EXISTING PIPE GALLERY
18. NEW BOLLARDS - TO PROTECT PROPOSED ELECTRICAL - SEE DETAIL 6 ON CD-10 (TYPICAL)
19. 24" PLANT DRAIN CONNECTION TO EXISTING SEWER (SEE PROFILE ON SHEET C-25)
20. NEW ELECTRICAL MANHOLE 10' X 10' X 8' (SEE ELECTRICAL DRAWINGS)
21. NEW UTILITY WALL PENETRATION (REFERENCE ELECTRICAL DRAWINGS)
22. (2) 45 DEGREE BENDS (6" PCW WATERLINE)
23. NEW EAST PRIMARY INFLUENT CONDUIT (FACILITY 536)
24. NEW PROPOSED 120" INFLUENT PIPE (SEE SHEET 509-C10)
25. NEW 24" SANITARY SEWER PLANT DRAIN LINE
26. NEW 3" GAS LINE LATERAL TO EAST HEADWORKS
27. EXTEND 14" DIP NORTH FOR FUTURE TANK DRAIN APPROXIMATELY 5'. PROVIDE 14" RESTRAINED DIP CAP.
28. NEW DIP 8" DRN
29. CONCRETE ENCASEMENT FOR NEW PLANT DRAIN (SEE PROFILES) 1
30. NEW ELECTRIC DUCTBANK (18" X 18"). TO BE INSTALLED WITH CONTRACT 1739.
31. NEW ELECTRICAL DUCTBANK HANDHOLE (18" X 18"). TO BE INSTALLED WITH CONTRACT 1739.

NOTES

1. ALL SITE WORK WILL BE COMPLETED BY THE GENERAL CONTRACTOR.
2. INSTALLATION OF SITE UTILITIES / YARD PIPING WILL BE COMPLETED BY THE GENERAL CONTRACTOR TO 5 FEET FROM THE EXTERIOR WALL OF STRUCTURES. THE PLUMBING CONTRACTOR WILL BE RESPONSIBLE FOR ALL BUILDING CONNECTIONS TO THE CONNECTION POINT WITH THE GENERAL CONTRACTOR.
3. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF THE ENTIRE PROPOSED GAS LINE FROM THE BUILDING TO CONNECTION POINT AT THE EXISTING LINE. THE GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR TRENCHING, BEDDING, AND BACKFILL.
4. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF CONDUITS, WIRING, CONCRETE AND REBAR FOR DUCTBANKS. GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR TRENCHING, BEDDING, AND BACKFILL.
5. SEE SHEETS C-23, C-24, AND C-25 FOR YARD PIPING PROFILES.
6. SEE SHEET C-26 FOR NEW CONDUIT PROFILES.
7. SEE SHEET C-41 AND C-42 FOR STORM DRAIN DESIGN.
8. CONTRACTOR TO SUPPORT NEW AND EXISTING ELECTRICAL UTILITIES DURING CONSTRUCTION OF NEW 24" DIAMETER PLANT DRAIN LINE. (SEE PROFILE ON C-25 FOR DETAILS).

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



YARD PIPING PLAN - EAST 1
SCALE: 1" = 20' HORIZ.

Designed by:	REV No.	DATE	DESCRIPTION	APPV
LJK	0	10/28/20	ISSUED FOR BIDS	
Drawn by: TPM	1	12/22/20	ADDENDUM 2	
Checked by: KPK				

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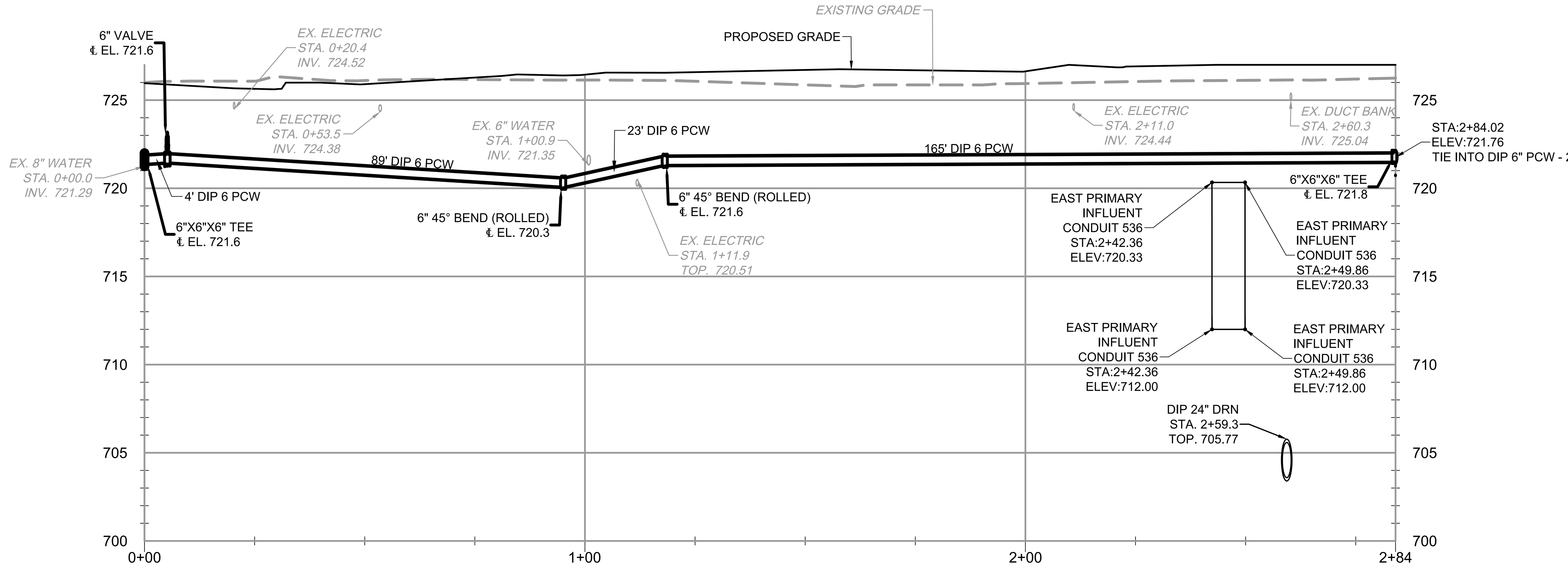
ALLEGHENY COUNTY SANITARY AUTHORITY
WASTEWATER TREATMENT PLANT
EAST HEADWORKS

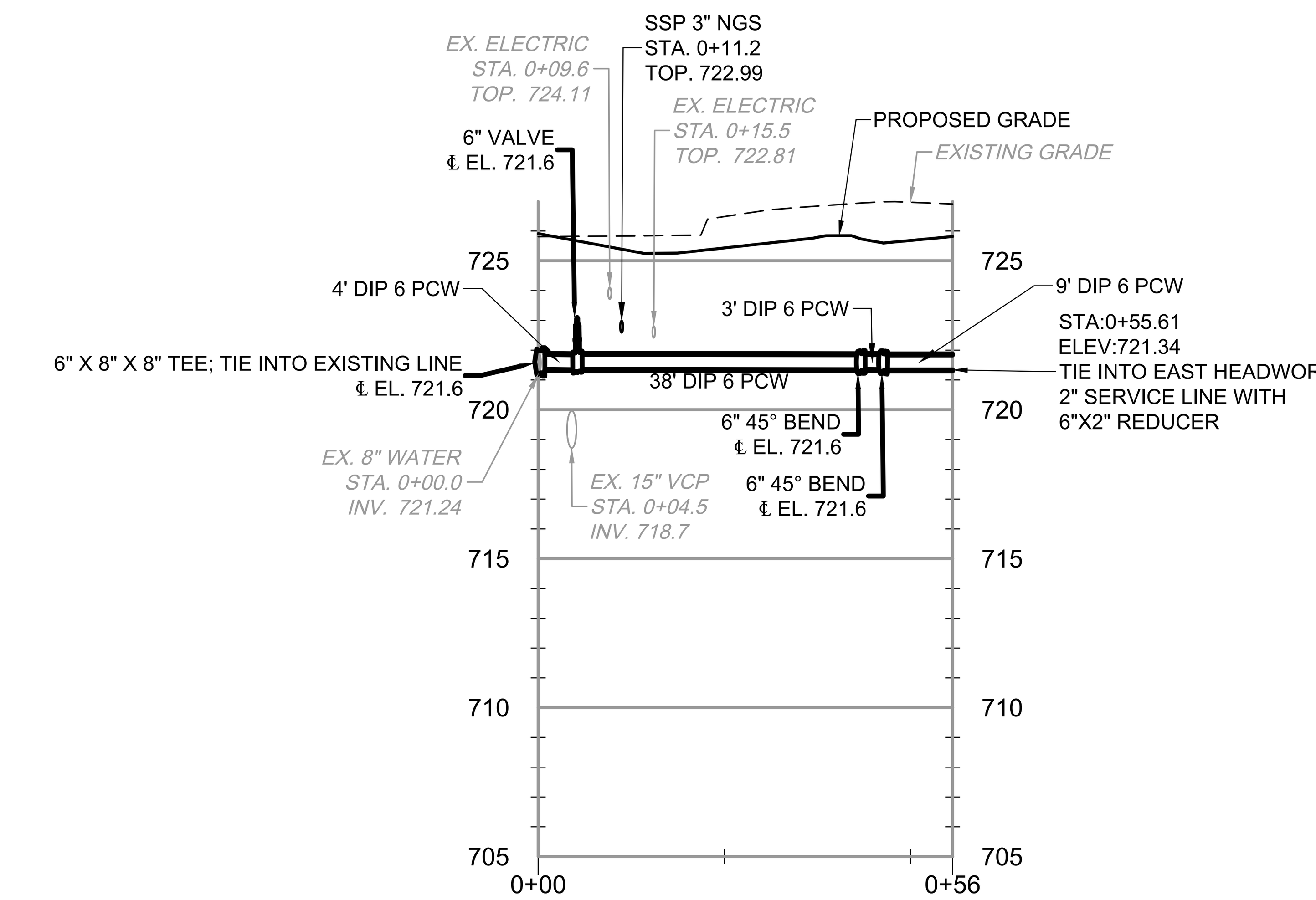
C-22
YARD PIPING PLAN - EAST

Contract: 1729
CAD File Name: C-SITE-DESIGN.DWG
Date: OCTOBER 2020
Sheet: 39 OF 645



PROFILE DIP 6" PCW EAST/WEST (1)

SCALE: 1" = 20' HORIZ.
1" = 5' VERT.

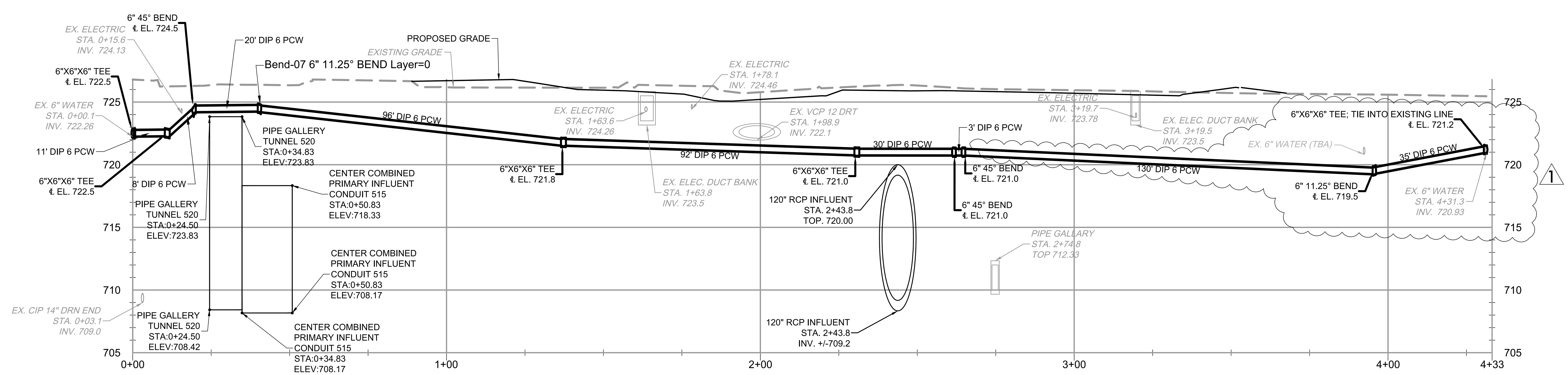


PROFILE DIP 6" PCW (2)

SCALE: 1" = 20' HORIZ.
1" = 5' VERT.

NOTES

1. SEE SHEETS C-21 AND C-22 FOR YARD PIPING PLAN VIEW WEST AND EAST.
2. ALL VALVES SHOWN ON PROFILES WILL HAVE CASTINGS ACCESSIBLE FROM GRADE.



PROFILE DIP 6" PCW NORTH/SOUTH (3)

SCALE: 1" = 20' HORIZ.
1" = 5' VERT.

Designed by:	REV No.	DATE	DESCRIPTION	APPV
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Drawn by:	1	12/22/20	ADDENDUM 2	
TPM				
Checked by:				
KPK				

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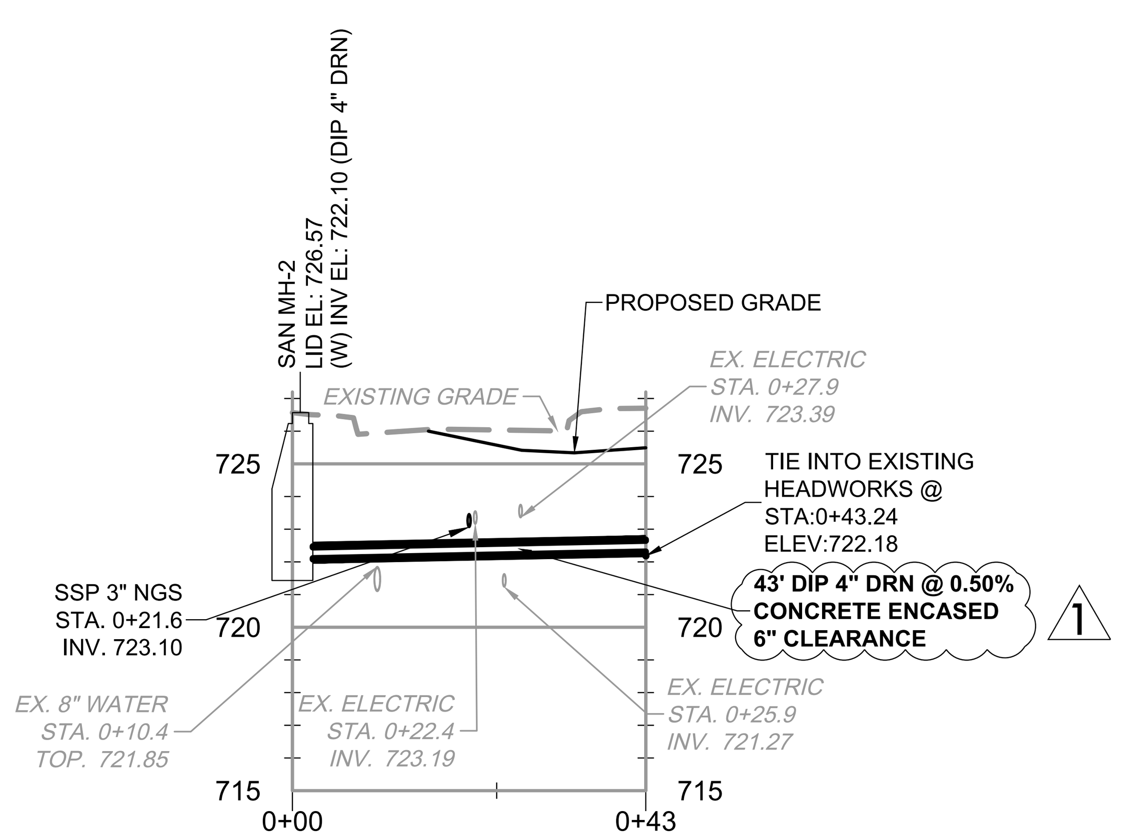
WASTEWATER TREATMENT PLANT
EAST HEADWORKS

C-24
YARD PIPING PROFILES

Contract: 1729
CAD File Name: C-23 - 25 YARD PIPING PROFILES
Date: OCTOBER 2020
Sheet: 41 OF 645

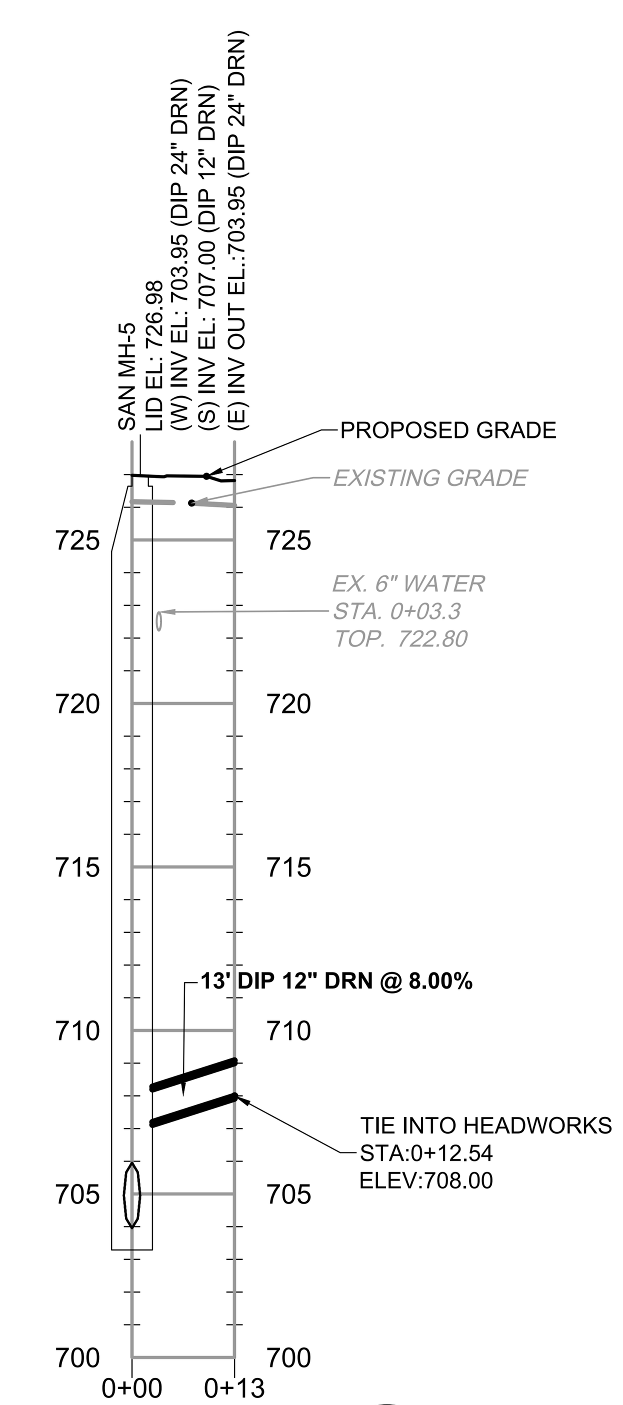
PROFILE DIP 24" DRN 1

SCALE: 1" = 20' HORIZ.
1" = 5' VERT.



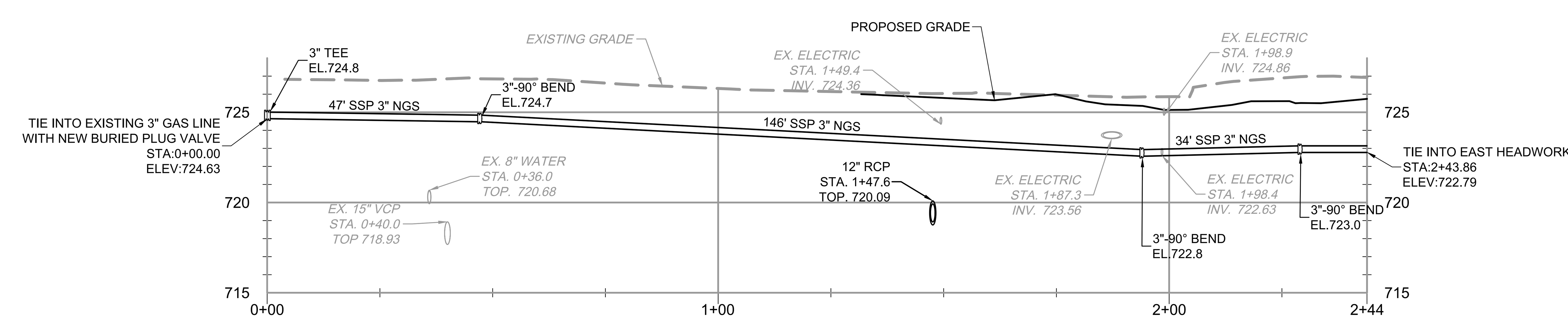
PROFILE DIP 4" DRN 2

SCALE: 1" = 20' HORIZ.
1" = 5' VERT.



PROFILE DIP 12" DRN 3

SCALE: 1" = 20' HORIZ.
1" = 5' VERT.



PROFILE SSP 3" NGS 4

SCALE: 1" = 20' HORIZ.
1" = 5' VERT.

NOTES

1. SEE SHEETS C-21 AND C-22 FOR YARD PIPING VIEW WEST AND EAST.
2. ALL VALVES SHOWN ON PROFILES WILL HAVE CASTINGS ACCESSIBLE FROM GRADE.

Designed by:	REV No.	DATE	DESCRIPTION	APPV
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Drawn by:	1	12/22/20	ADDENDUM 2	
TPM				
Checked by:				
KPK				

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ALLEGHENY COUNTY SANITARY AUTHORITY
WASTEWATER TREATMENT PLANT
EAST HEADWORKS

C-25
YARD PIPING PROFILES

Contract: 1729
CAD File Name: C-23 - 25 YARD PIPING PROFILES
Date: OCTOBER 2020
Sheet: 42 OF 645

BUILDING STAKEOUT COORDINATES

POINT #	NORTHINC	EASTING	ELEVATIOI	DESCRIPTI
1	11,212.30	6103.3	0	NW BLDG
2	11,212.30	6282	0	NE BLDG C
3	11,208.30	6282	0	BLDG COR
4	11,208.30	6297.3	0	BLDG COR
5	11,195.70	6297.3	0	BLDG COR
6	11,195.70	6282	0	BLDG COR
7	11,118.80	6282.1	0	BLDG COR
8	11,118.50	6297.2	0	BLDG COR
9	11,092.40	6297.2	0	BLDG COR
10	11,092.40	6306	0	BLDG COR
11	11,085.00	6306	0	BLDG COR
12	11,085.00	6297.2	0	BLDG COR
13	11,030.00	6297.2	0	SE BLDG C
14	11,030.00	6082.3	0	SW BLDG
15	11,131.30	6082.3	0	BLDG COR
16	11,131.30	6095.9	0	BLDG COR
17	11,179.70	6095.9	0	BLDG COR
18	11,179.70	6114.2	0	BLDG COR
19	11,195.60	6114.2	0	BLDG COR
20	11,195.70	6103.3	0	BLDG COR

WATERLINE STAKEOUT COORDINATES

LOCATION	NORTHING	EASTING
41	10980.89	6052.67
42	11014.03	6052.67
43	11014.07	6071.70
44	11106.91	6052.68
45	11244.77	6052.65
46	11240.18	6062.74
47	10976.93	5884.05
48	11217.42	6329.88
49	11217.51	6234.92
50	11233.70	6218.68
51	11233.86	6052.61

1

CURBING STAKEOUT COORDINATES

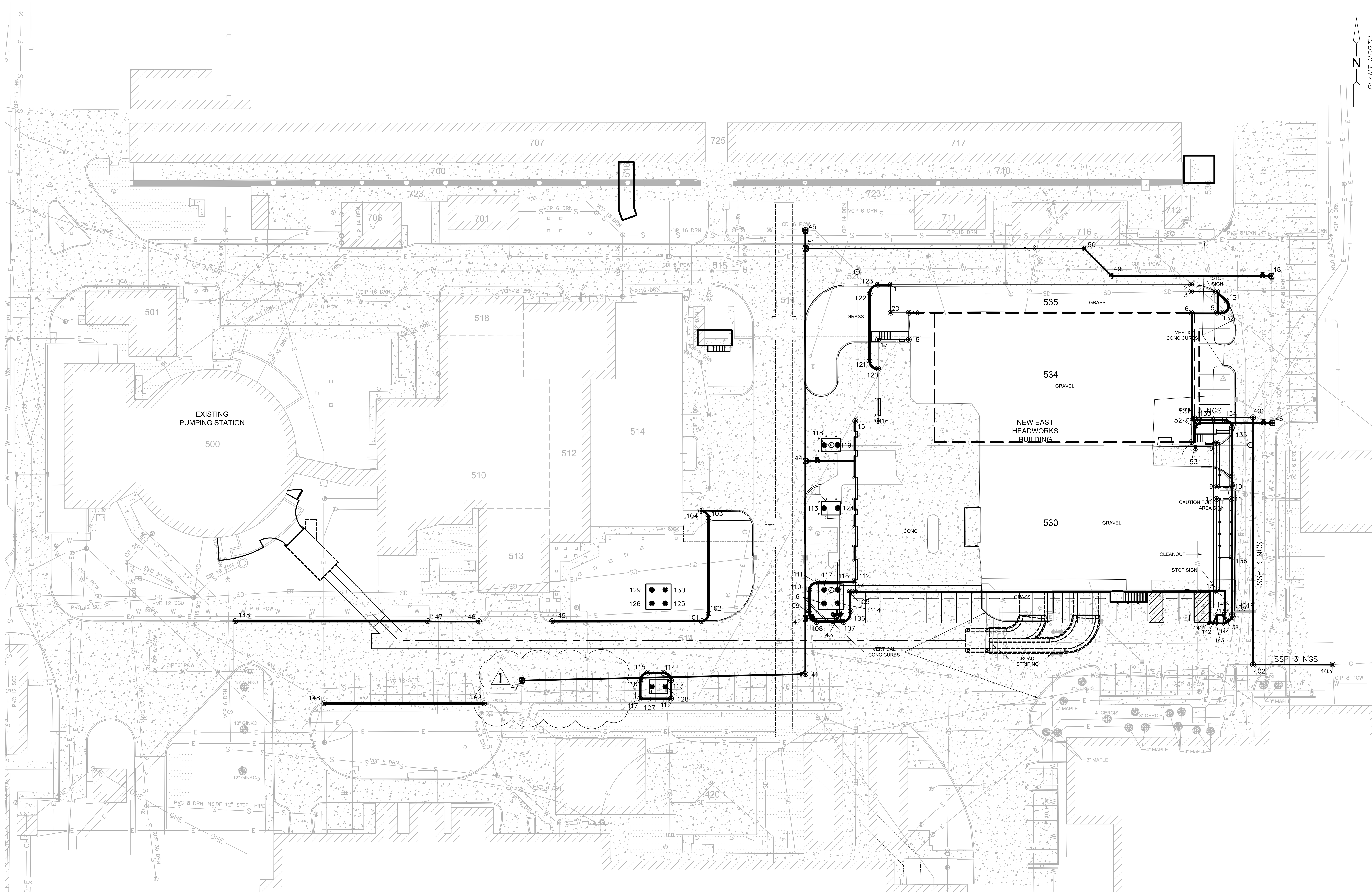
LOCATION	NORTHING	EASTING
101	11012.39	5991.05
102	11016.84	5995.16
103	11073.62	5995.04
104	11077.60	5990.60
105	11029.86	6079.07
106	11018.32	6079.55
107	11011.87	6075.35
108	11011.83	6059.23
109	11017.95	6054.68
110	11031.04	6054.96
111	11035.47	6059.77
112	11036.02	6081.81
120	11162.54	6095.88
121	11167.06	6090.83
122	11207.00	6090.86
123	11212.27	6095.72
148	10963.59	5766.62
149	10963.60	5861.66
131	11202.79	6302.90
132	11195.66	6300.53
133	11131.90	6282.55
134	11131.85	6301.89
135	11127.32	6306.21
136	11049.95	6306.20
137	11016.46	6306.27
138	11011.67	6303.26
139	11016.07	6301.26
140	11016.11	6297.23
141	11011.33	6292.67
142	11011.37	6294.86
143	11011.25	6297.19
144	11011.10	6301.25

GASLINE STAKEOUT COORDINATES

400	11133.50	6283.74
401	11133.50	6318.79
402	10986.64	6318.79
403	10986.64	6366.12

PIER STAKEOUT COORDINATES

LOCATION	NORTHING	EASTING
113	11079.57	6063.77
114	11023.00	6071.85
115	11031.02	6071.89
116	11023.00	6063.81
117	11031.03	6063.81
118	11116.99	6063.81
119	11117.05	6071.88
124	11079.57	6071.86
125	11022.98	5969.33
126	11022.92	5961.31
127	10973.51	5961.30
128	10973.52	5969.33
129	11030.96	5961.34
130	11031.06	5969.37



STAKEOUT PLAN 1

SCALE: 1" = 30' HORIZ.

0 30' 60'

SCALE: 1" = 30'-0"

Designed by:	REVISION			
LJK	REV No.	DATE	DESCRIPTION	APPV
Drawn by:	0	10/28/20	ISSUED FOR BIDS	
TPM	1	12/22/20	ADDENDUM 2	
Checked by:				
KPK				

Whitman, Requardt & Associates, LLP
801 South Caroline Street, Baltimore, MD 21231

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COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL JOHN D. HARDING ENGINEER 027491-E
December 22, 2020

alcosan allegheny county sanitary authority
ARLETTA SCOTT WILLIAMS
EXECUTIVE DIRECTOR, ALCOSAN
3300 PREBLE AVE.
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ALLEGHENY COUNTY SANITARY AUTHORITY
WASTEWATER TREATMENT PLANT
EAST HEADWORKS

C-50
SITE STAKEOUT PLAN

Contract: 1729

CAD File Name: C-SITE-DESIGN.DWG

Date: OCTOBER 2020

Sheet: 54 OF 645

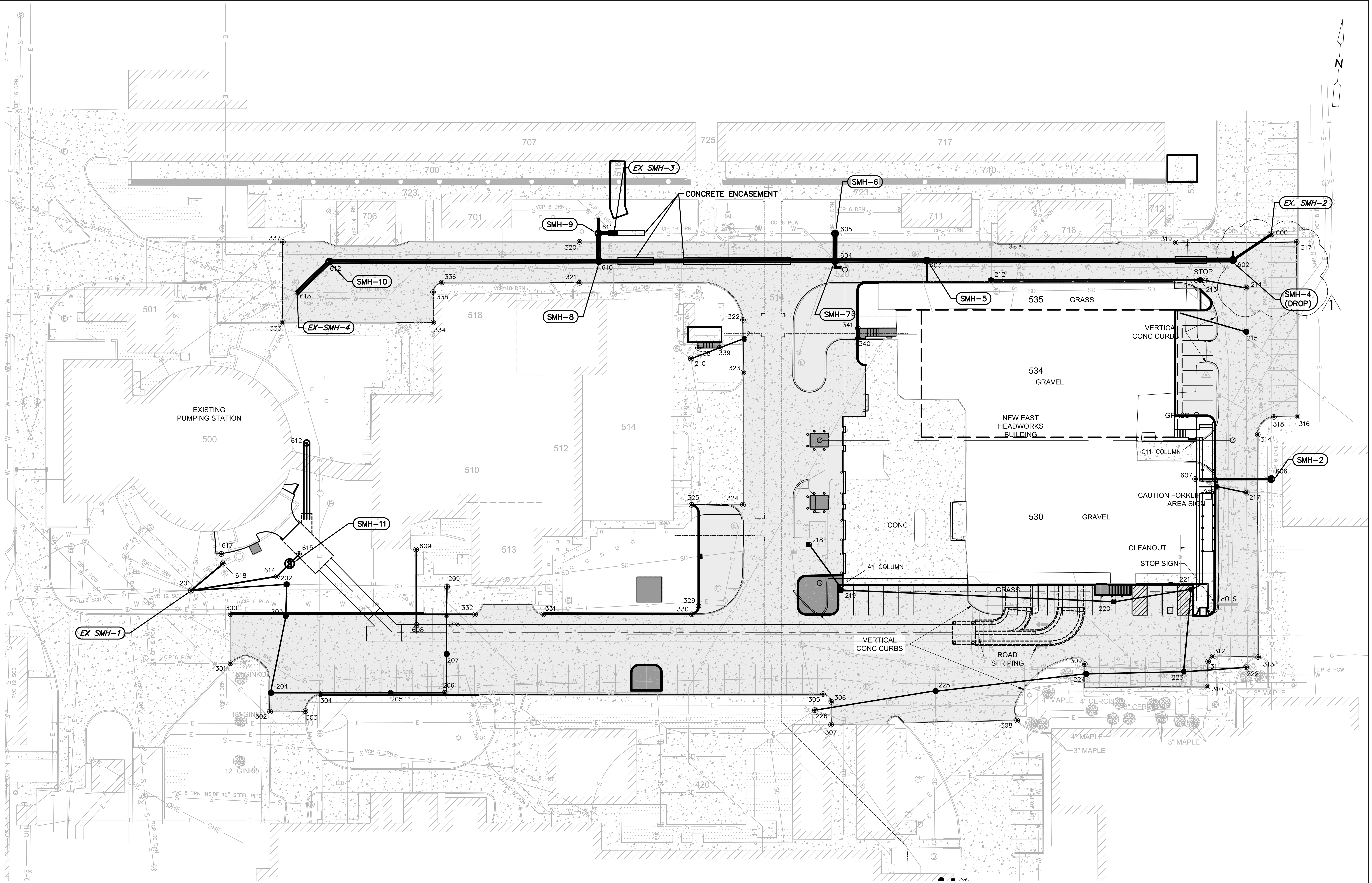
COLUMN STAKEOUT COORDINATES		
LOCATION	NORTHING	EASTING
A1	11031.00	6083.34
C11	11117.00	6295.34

STORM STAKEOUT COORDINATES		
LOCATION	NORTHING	EASTING
201	11026.41	5688.96
202	11030.10	5746.72
203	11010.21	5746.21
204	10964.74	5737.27
205	10964.75	5809.76
206	10964.28	5841.11
207	10988.69	5843.41
208	11011.58	5843.50
209	11028.91	5843.10
210	11166.30	5990.45
211	11178.27	6022.70
212	11213.20	6131.24
213	11213.64	6297.01
214	11209.83	6325.49
215	11182.32	6325.47
216	11089.01	6307.32
217	11085.43	6325.57
219	11026.78	6081.07
220	11019.83	6245.31
221	11027.16	6292.01
222	10977.49	6325.24
223	11213.59	6287.66
224	10976.64	6228.69
225	10965.91	6138.14
226	10954.31	6065.14

PAVING STAKEOUT COORDINATES		
LOCATION	NORTHING	EASTING
300	11012.14	5712.92
301	10982.61	5712.87
302	10953.41	5736.66
303	10953.74	5757.94
304	10963.95	5766.98
305	10964.01	6070.10
306	10959.20	6075.08
307	10945.57	6074.96
308	10948.10	6187.16
309	10982.06	6227.99
310	10968.52	6302.01
311	10983.68	6302.33
312	10986.66	6305.10
313	10986.36	6332.51
314	11120.46	6332.25
315	11131.12	6342.01
316	11131.35	6356.27
317	11236.57	6355.79
319	11236.25	6282.82
320	11236.64	5923.20
321	11211.93	5923.40
322	11189.56	6021.85
323	11157.92	6022.06
324	11078.13	6021.92
325	11078.17	5990.73
329	11017.13	5994.93
330	11012.13	5991.03
331	11012.03	5901.50
332	11013.00	5860.28
333	11188.04	5744.20
334	11188.00	5835.08
335	11206.35	5834.94
336	11212.00	5840.28
337	11236.51	5744.40
338	11172.71	5994.71
339	11172.71	6007.87
340	11178.58	6091.14
341	11184.54	6091.14

SANITARY STAKEOUT COORDINATES		
LOCATION	NORTHING	EASTING
600	11241.17	6340.51
602	11225.73	6317.25
603	11225.30	6132.74
604	11225.29	6077.34
605	11241.67	6077.34
606	11093.67	6340.59
607	11093.67	6294.46
608	11005.74	5824.88
609	11051.13	5824.73
610	11225.07	5934.91
611	11241.88	5934.73
612	11115.22	5758.77
614	11034.89	5740.76
615	11048.52	5754.11
617	11048.47	5707.27
618	11042.72	5708.16

1



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C-51
SITE STAKEOUT PLAN

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