

CITY OF CELINA, TEXAS

CONSTRUCTION PLANS FOR

CELINA WASTEWATER TREATMENT PLANT SLUDGE DEWATERING IMPROVEMENTS

CITY COUNCIL

JIM LEWIS – MAYOR
SEAN TERRY – Council Member
LARRY BERG – Mayor Pro-Tem
TODD MCCALLY – Council Member
SEAN TERRY – Council Member
WAYNE NABORS – Council Member
CARMEN ROBERTS – Council Member
BILL WEBBER – Council Member

CONTRACTOR: MELA CONTRACTING, INC
430 LAKE VIEW RD.
RHOME, TX 76078

PROJECT SUPERINTENDENT: PAUL MENDOZA, JR

CITY INSPECTOR: JOSEPH JOHNSON

FINAL CONTRACT AMOUNT: \$1,260,083.00

FINAL COMPLETION DATE: JANUARY 30, 2015

THIS SEAL THAT ORIGINALLY
APPEARED ON THIS DOCUMENT
WAS AUTHORIZED BY TIMOTHY
JOHN NOACK, TEXAS NO.
54732 ON 09/18/2012.
ALTERATION OF A SEALED
DOCUMENT WITHOUT PROPER
NOTIFICATION OF THE
RESPONSIBLE ENGINEER IS AN
OFFENSE UNDER THE TEXAS
ENGINEERING PRACTICE ACT.

TIMOTHY JOHN NOACK P.E., PRINCIPAL

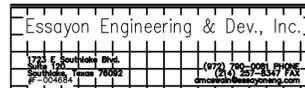


SEPTEMBER 2012

TWDB CWSRF 72149-01



IN ASSOCIATION WITH:



CITY ADMINISTRATION

MIKE FOREMAN – City Manager
VICKI FAULKNER – City Secretary
JOSEPH JOHNSON – Director of Public Works

POSTED FOR RECORD DOCUMENT

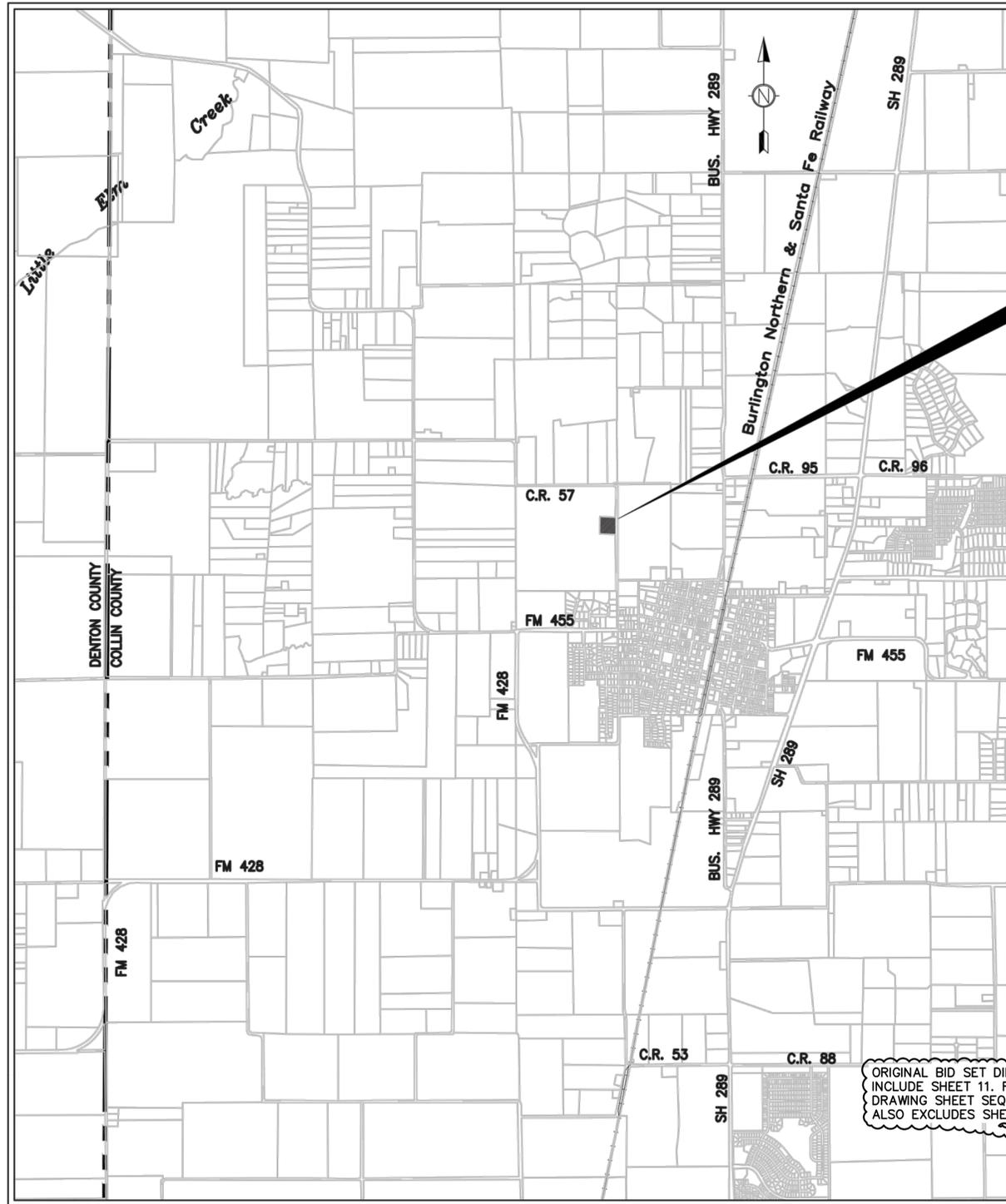
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DALLAS, TEXAS 75247-4066
214-631-6100

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MARKHAM, TEXAS NO. 94624
ON 09/18/2012.
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TRAVIS D. MARKHAM P.E., PROJECT MANAGER

PROJECT LOCATION MAP

SCALE: 1" = 500'



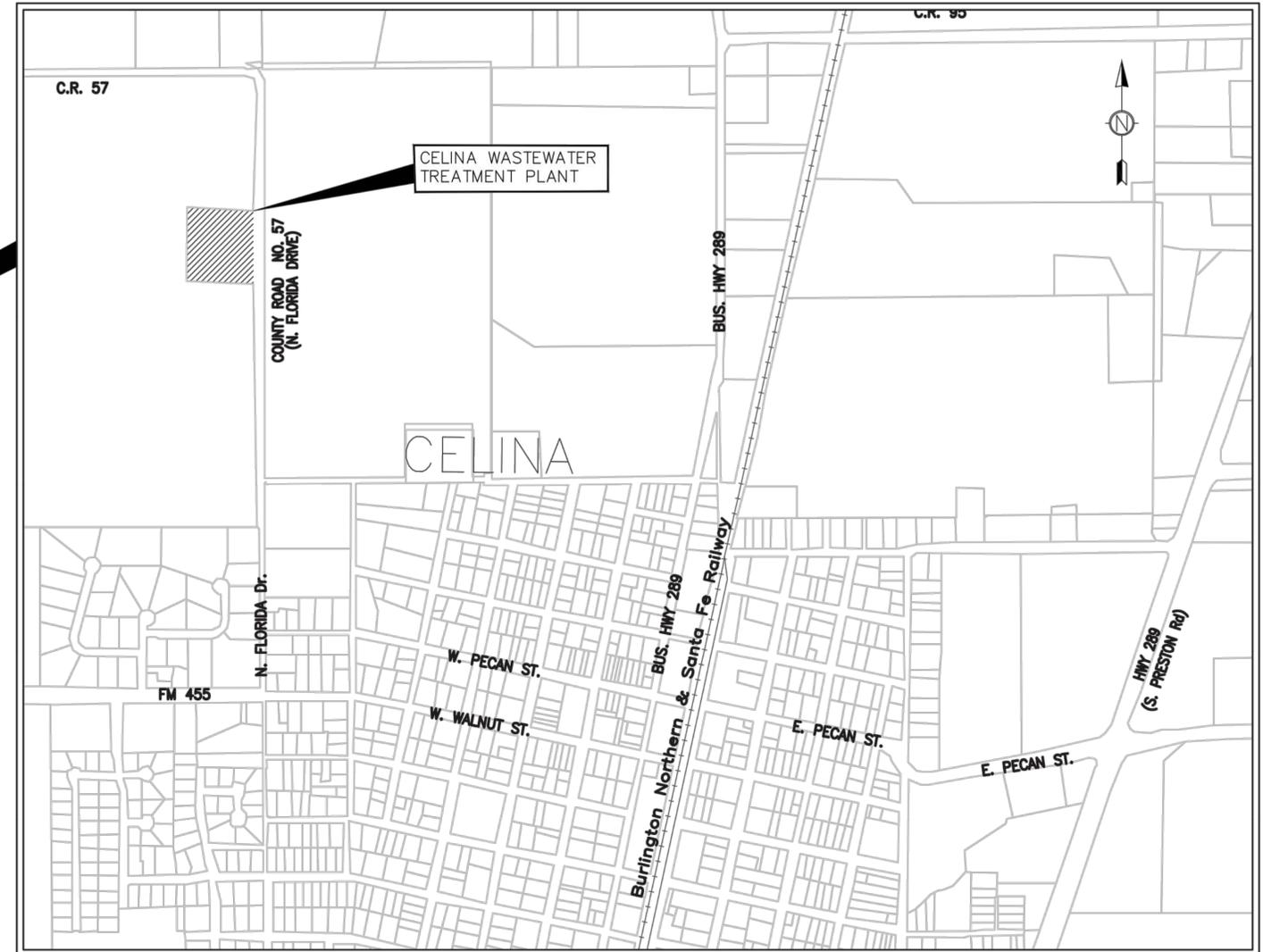
VICINITY MAP

SCALE: 1" = 2,000'

ORIGINAL BID SET DID NOT INCLUDE SHEET 11. RECORD DRAWING SHEET SEQUENCE ALSO EXCLUDES SHEET 11.

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Essayon Engineering & Dev., Inc.
 1725 E. Southlake Blvd.
 Suite 120
 Southlake, Texas 76092
 #F-004684

(972) 790-0081 PHONE
 (214) 257-8347 FAX
 dmcswain@essayoneng.com



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ATTACHMENT 1-AD4

REFERENCES: Celina_Ex_Boundary_map
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 USER: David

DESIGNED BY JCK
 DRAWN BY DGM
 CHECKED BY DGM
 REVIEWED BY RRS

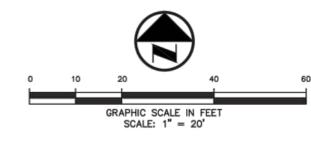


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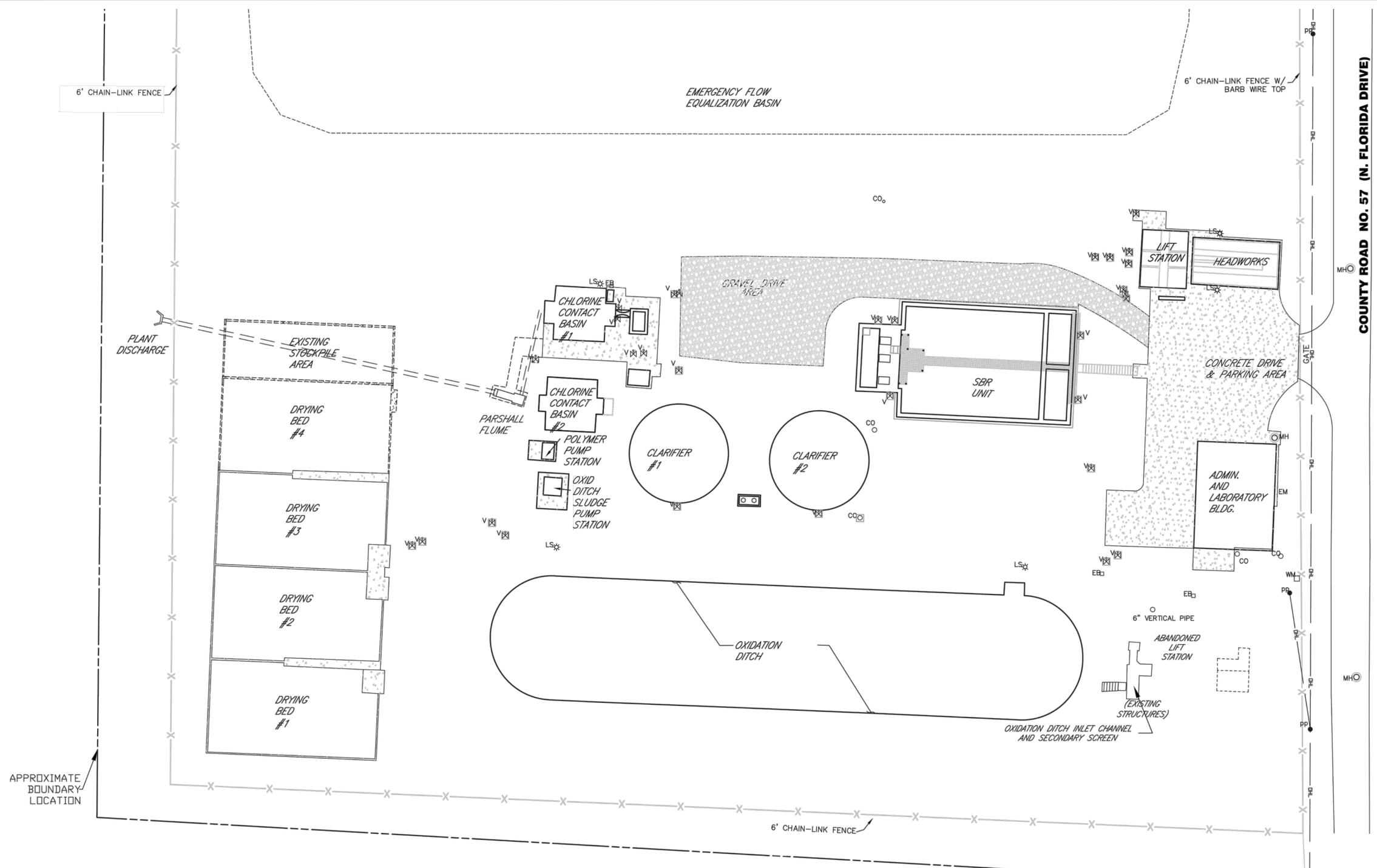
GENERAL
 SITE LOCATION MAP & DRAWING INDEX

Seq. 2 of 43
 Dwg. No. G-001
 JOB NO: 0856-003-01



LEGEND

B .	FLOOR DRAIN
PP .	BOLLARD
LS *	POWER POLE
V *	LIGHT STANDARD
CO	VALVE
MH	CLEAN OUT
GM	MANHOLE
EB	GAS METER
WM	ELECTRIC BOX
	WATER METER
---	PROPERTY LINE
- - -	FENCE
- - -	OVERHEAD POWER LINE
- - -	EXISTING CONTOURS MINOR
- - -	EXISTING CONTOURS MAJOR
- - -	PROPOSED CONTOURS
xxx.xx	EXISTING SPOT GRADES
650.44	PROPOSED SPOT GRADES
X	DIMENSIONAL CONTROL



NOTES:

1. MAINTAIN ACCESS TO ALL EXISTING FACILITIES AND STRUCTURES AT ALL TIMES.
2. REFER TO SPECIFICATION 01105 "CONSTRUCTION SEQUENCE" FOR COORDINATION AND SCHEDULE REQUIREMENTS.
3. DIMENSIONS, ELEVATIONS AND DETAILS OF EXISTING FACILITIES ARE BASED ON 2009 SURVEY INFORMATION AND 2003 RECORD DRAWINGS PROVIDED BY THE OWNER. THE OWNER AND/OR ENGINEER HAS NOT FIELD VERIFIED THE DIMENSIONS AND ELEVATIONS. THE ACCURACY AND COMPLETENESS OF THE INFORMATION SHOWN ON THE DRAWINGS IS NOT GUARANTEED. SOME OF THE EXISTING EQUIPMENT INFORMATION HAVE BEEN OMITTED FOR CLARITY. ACTUAL DIMENSIONS, ELEVATIONS AND DETAILS MAY VARY. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING THE JOB TO DETERMINE THE EXTENT OF WORK AND THE DIFFICULTIES IN CONSTRUCTION OF THE NEW FACILITIES. THE CONTRACTOR SHALL FIELD VERIFY PRIOR TO FABRICATION AND CONSTRUCTION AND MAKE ANY NECESSARY ADJUSTMENTS AT NO ADDITIONAL COST AND EXTENSION OF THE CONTACT TIME TO THE OWNER.
4. PROTECT EXISTING STRUCTURES, PIPING AND EQUIPMENT WHICH ARE TO REMAIN. REPLACE ITEMS DAMAGED BY CONSTRUCTION OR DEMOLITION AT NO COST TO OWNER. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL VIDEO TAPE AND TAKE PICTURES OF EXISTING FACILITIES.
5. REFER TO YARD PIPING AND ELECTRICAL PLANS FOR SUBSURFACE UTILITIES.

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 1725 E. Southlake Blvd. Suite 120 Southlake, Texas 76092 #1-004684
 (972) 790-0081 PHONE (214) 257-8347 FAX dmcswain@essayoneng.com

ATTACHMENT 1-AD4

BAR IS ONE INCH IN LENGTH ON ORIGINAL DRAWING. CHECK SCALE AND ADJUST ACCORDINGLY.
 ONE INCH

DESIGNED BY JCK	ISSUED FOR RECORD	FJC
DRAWN BY DGM	REVISION	BY
CHECKED BY DGM		
REVIEWED BY RRS		

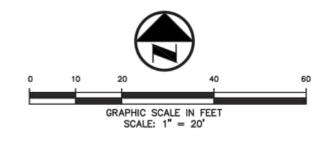
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CITY OF CELINA, TEXAS
 CELINA WASTEWATER TREATMENT PLANT
 SLUDGE DEWATERING IMPROVEMENTS

CIVIL
 EXISTING SITE PLAN

Seq. 4 of 43
 Dwg. No. G-003
 JOB NO: 0856-003-01



LEGEND

- FLOOR DRAIN
 - BOLLARD
 - POWER POLE
 - LIGHT STANDARD
 - VALVE
 - CLEAN OUT
 - MANHOLE
 - GAS METER
 - ELECTRIC BOX
 - WATER METER
 - PROPERTY LINE
 - FENCE
 - OVERHEAD POWER LINE
 - EXISTING CONTOURS MINOR
 - EXISTING CONTOURS MAJOR
 - PROPOSED CONTOURS
 - EXISTING SPOT GRADES
 - PROPOSED SPOT GRADES
 - DIMENSIONAL CONTROL
- PAVEMENT LEGEND**
- STANDARD PAVEMENT
 - REINFORCED DUMPSTER PAD AND APPROACH

BENCHMARKS

B.M.-1 Northeast corner of Abandoned Headworks located approximately 20' east of existing concrete "Aeration Basin", near the south portion of the subject property.

Elevation=661.58'
 N = 7171680.42
 E = 2489845.66

T.B.M.-1 Railroad spike set in the north side of a power pole, located on the west side of a gravel road (Florida Drive), approximately 65' south of an existing concrete building located near the southeast portion of the subject property.

Elevation=656.90'
 N = 7171650.52
 E = 2489906.72

T.B.M.-2 Square cut with "X" set on the southeast corner of the concrete "Sludge Bed", located near the southwest portion of the subject property.

Elevation=651.24'
 N = 7171638.55
 E = 2489572.85

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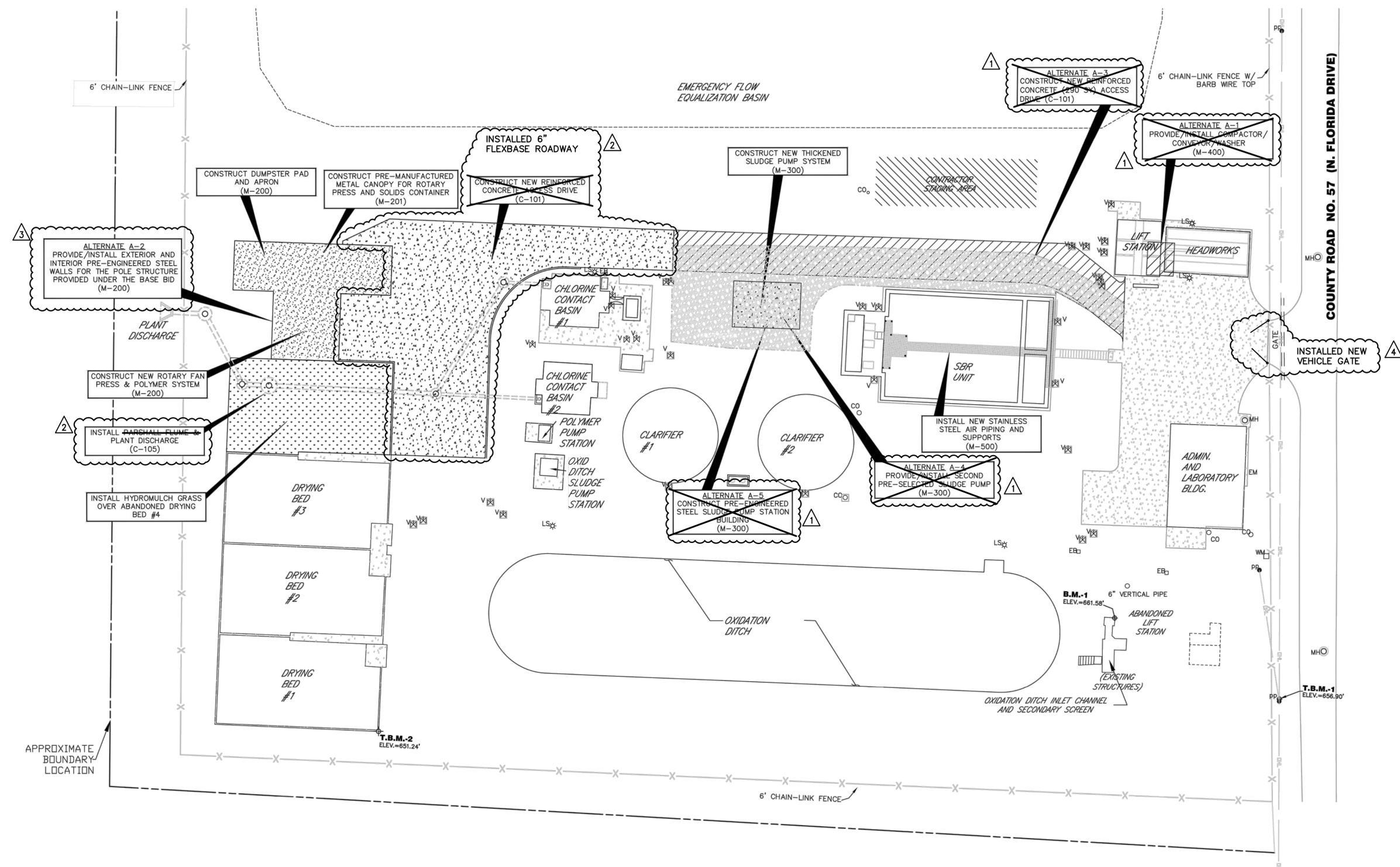
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REFERENCES: Celina_Ex_Boundary_map
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 18 SEP 18 2012

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NO.	DATE	DESCRIPTION	BY
01/15		ISSUED FOR RECORD	FJC
11/14		PER CHANGE ORDER CO-006	FJC
02/14		PER CHANGE ORDER CO-004	FJC
11/12		PER CHANGE ORDER CO-001	FJC
10/12		NOT IN THIS CONTRACT REVISION	FJC

DESIGNED BY JCK
 DRAWN BY DGM
 CHECKED BY DGM
 REVIEWED BY RRS

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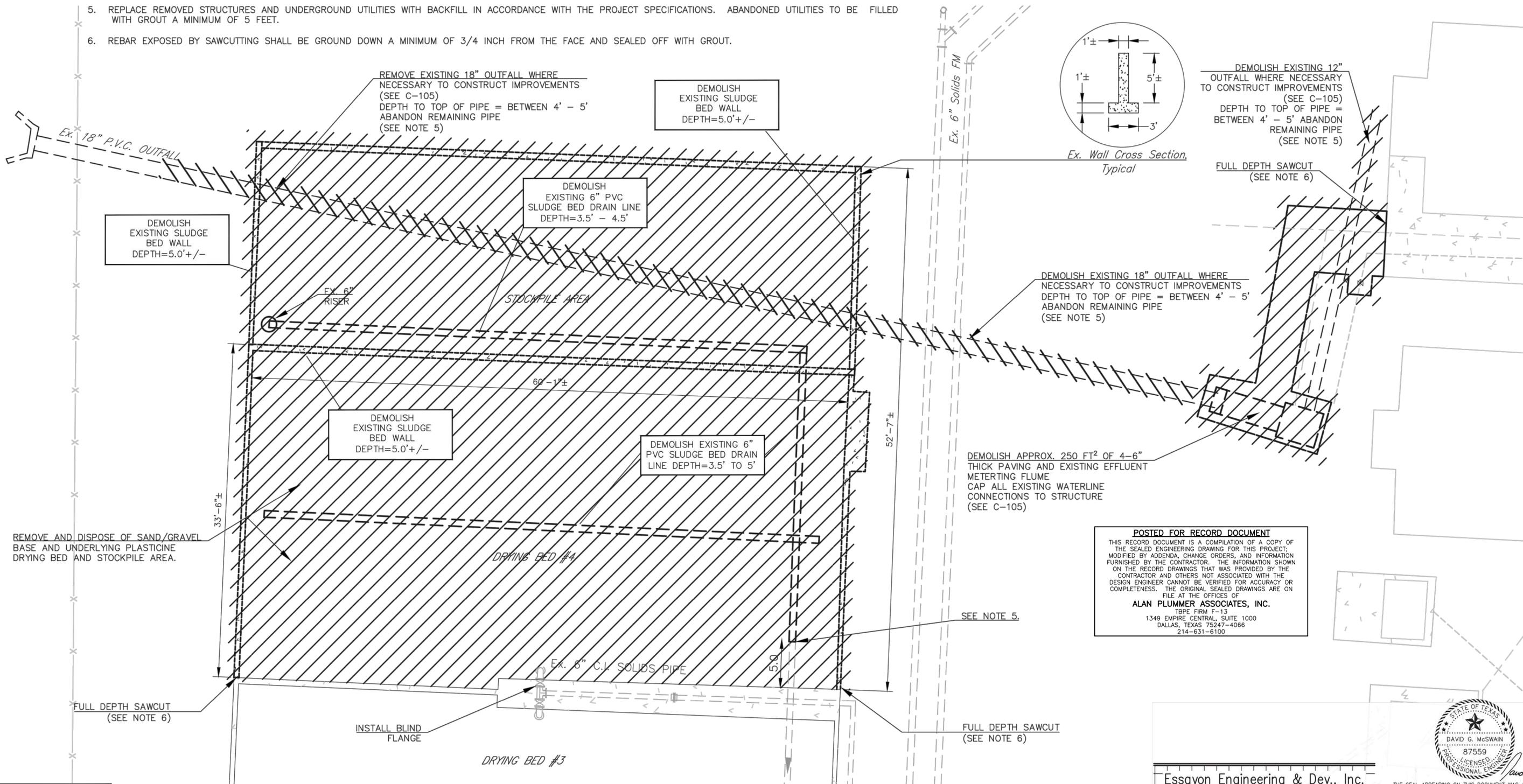
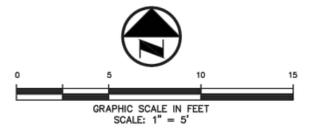
CITY OF CELINA, TEXAS
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 SLUDGE DEWATERING IMPROVEMENTS

CIVIL
 PROPOSED SITE PLAN

Seq. 5 43
 Dwg. No. G-004
 JOB NO: 0856-003-01

NOTES:

- REFER TO SPECIFICATION 01105 FOR SEQUENCE OF DEMOLITION AND RELATED CONSTRUCTION. ALL WORK TO BE COORDINATED WITH THE OWNER.
- REMOVE AND DISPOSE OF DEMOLISHED MATERIAL OFF SITE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL LAWS.
- DIMENSIONS, ELEVATIONS AND DETAILS OF EXISTING FACILITIES ARE BASED ON PREVIOUS CONSTRUCTION PLANS. THE OWNER AND/OR ENGINEER HAS NOT FIELD VERIFIED THE DIMENSIONS AND ELEVATIONS. THE ACCURACY AND COMPLETENESS OF THE INFORMATION SHOWN ON THIS DRAWING IS NOT GUARANTEED. SOME OF THE EXISTING EQUIPMENT INFORMATION HAVE BEEN OMITTED FOR CLARITY. ACTUAL DIMENSIONS, ELEVATIONS AND DETAILS WILL VARY. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING THE JOB TO DETERMINE THE EXTENT OF WORK AND THE DIFFICULTIES IN CONSTRUCTION OF THE NEW FACILITIES. THE CONTRACTOR SHALL FIELD VERIFY PRIOR TO FABRICATION AND CONSTRUCTION AND MAKE ANY NECESSARY ADJUSTMENTS AT NO ADDITIONAL COST AND EXTENSION OF THE CONTACT TIME TO THE OWNER.
- PROTECT EXISTING STRUCTURES, PIPING AND EQUIPMENT WHICH ARE TO REMAIN. REPLACE ITEMS DAMAGED BY CONSTRUCTION OR DEMOLITION AT NO COST TO OWNER. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL VIDEO TAPE AND TAKE PICTURES OF EXISTING FACILITIES.
- REPLACE REMOVED STRUCTURES AND UNDERGROUND UTILITIES WITH BACKFILL IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. ABANDONED UTILITIES TO BE FILLED WITH GROUT A MINIMUM OF 5 FEET.
- REBAR EXPOSED BY SAWCUTTING SHALL BE GROUND DOWN A MINIMUM OF 3/4 INCH FROM THE FACE AND SEALED OFF WITH GROUT.



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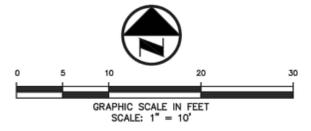
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 SLUDGE DEWATERING IMPROVEMENTS

CIVIL
 DEMOLITION PLAN

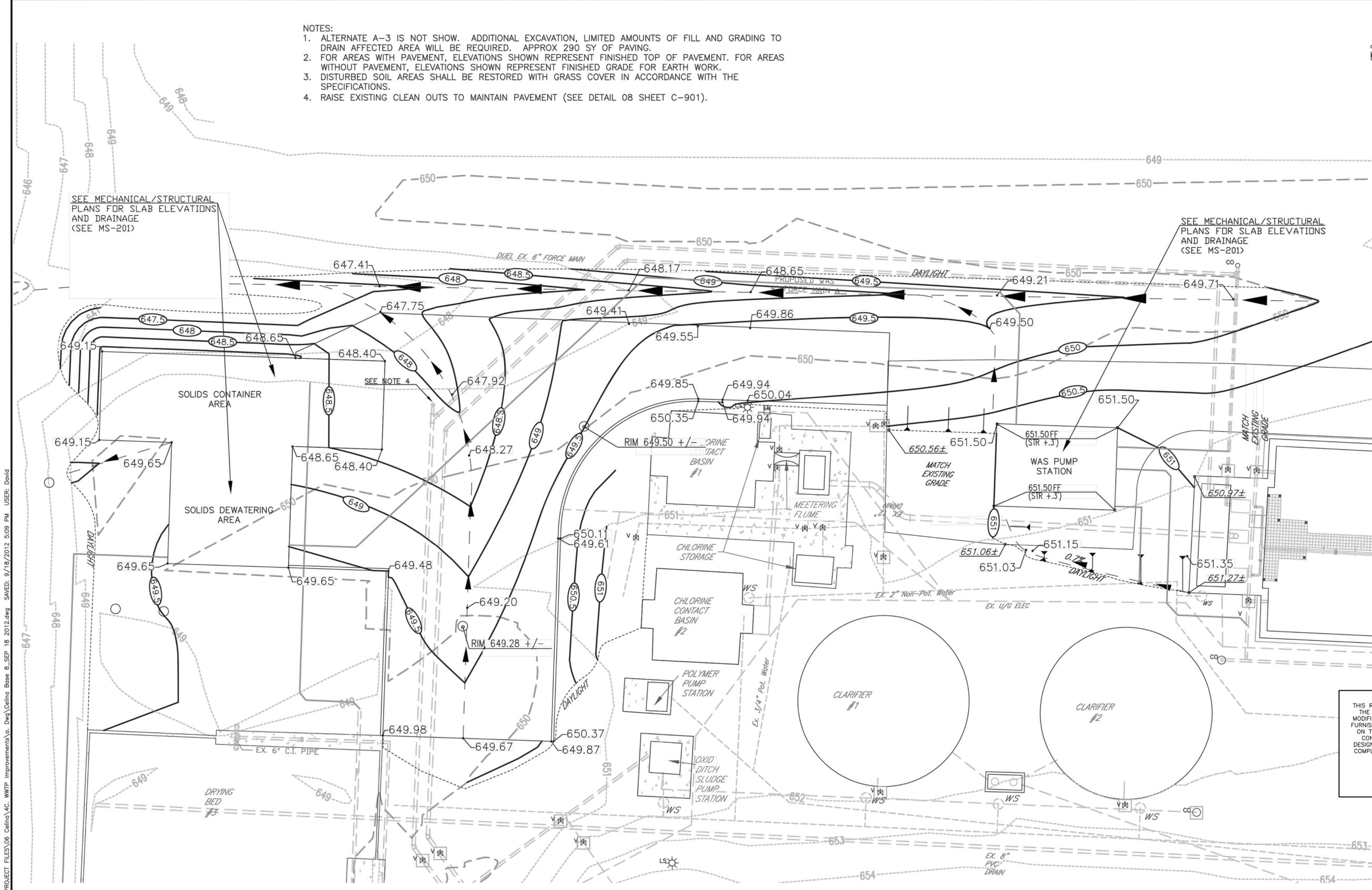
Seq. 6 of 43
 Dwg. No. D-100
 JOB NO: 0856-003-01

- NOTES:
1. ALTERNATE A-3 IS NOT SHOW. ADDITIONAL EXCAVATION, LIMITED AMOUNTS OF FILL AND GRADING TO DRAIN AFFECTED AREA WILL BE REQUIRED. APPROX 290 SY OF PAVING.
 2. FOR AREAS WITH PAVEMENT, ELEVATIONS SHOWN REPRESENT FINISHED TOP OF PAVEMENT. FOR AREAS WITHOUT PAVEMENT, ELEVATIONS SHOWN REPRESENT FINISHED GRADE FOR EARTH WORK.
 3. DISTURBED SOIL AREAS SHALL BE RESTORED WITH GRASS COVER IN ACCORDANCE WITH THE SPECIFICATIONS.
 4. RAISE EXISTING CLEAN OUTS TO MAINTAIN PAVEMENT (SEE DETAIL 08 SHEET C-901).



LEGEND

- FLOOR DRAIN
- BOLLARD
- POWER POLE
- LIGHT STANDARD
- VALVE
- CLEAN OUT
- MANHOLE
- GAS METER
- ELECTRIC BOX
- WATER METER
- PROPERTY LINE
- FENCE
- OVERHEAD POWER LINE
- EXISTING CONTOURS MINOR
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- EXISTING SPOT GRADES
- PROPOSED SPOT GRADES
- DIMENSIONAL CONTROL



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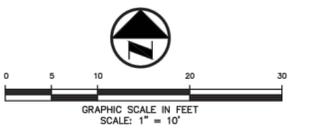
CIVIL
 GRADING PLAN

Seq. 7 of 43
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- NOTE:**
- ALL DIMENSIONS ARE FROM BACK OF CURB TO BACK OF CURB, UNLESS OTHERWISE NOTED.
 - BENCHMARKS SHOW ON SHEET G-004 FOR CLARITY PURPOSES.
 - REFER TO C-100 FOR ELEVATIONS.

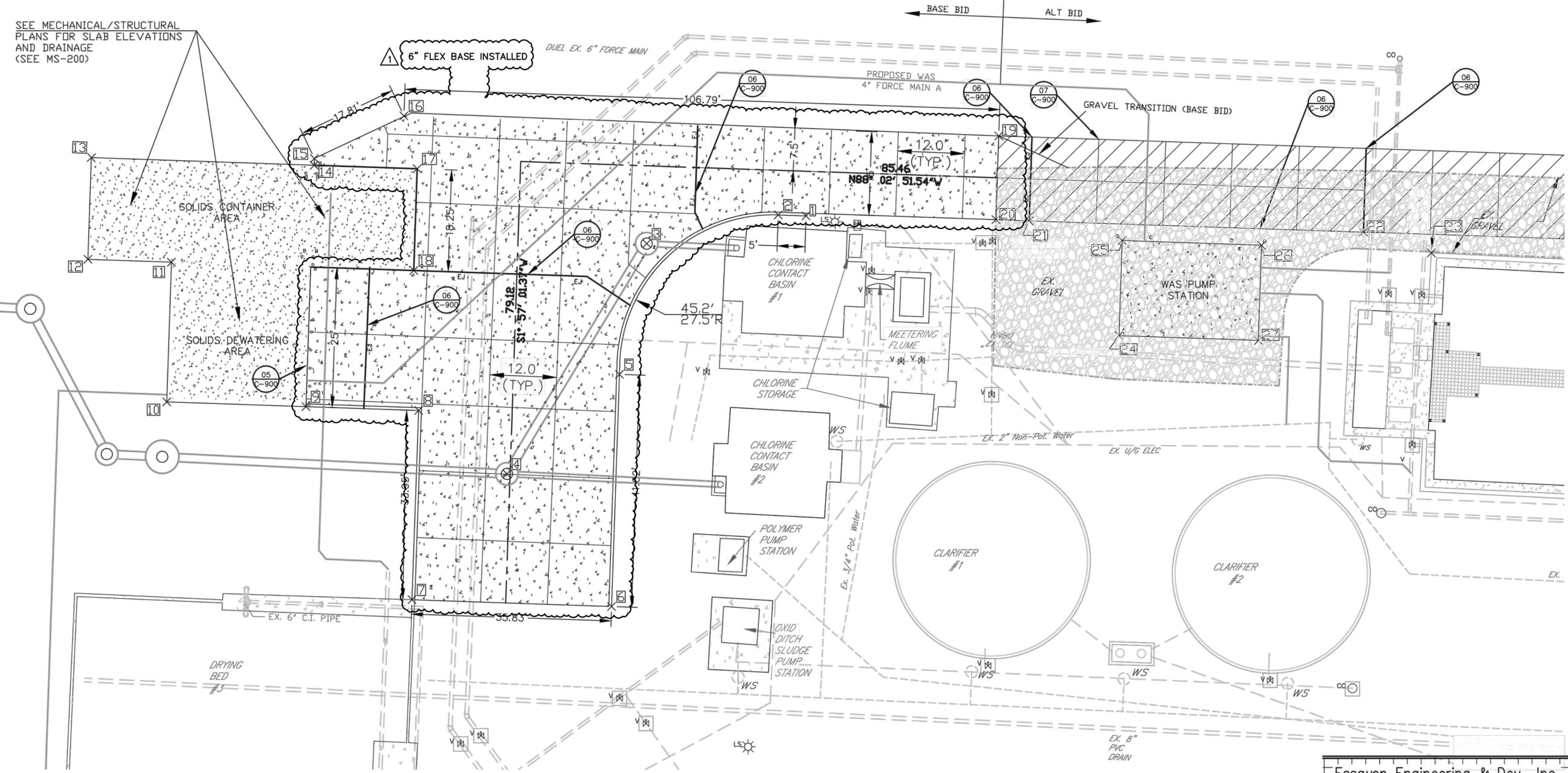


- LEGEND**
- FLOOR DRAIN
 - BOLLARD
 - POWER POLE
 - LIGHT STANDARD
 - VALVE
 - CLEAN OUT
 - MANHOLE
 - GAS METER
 - ELECTRIC BOX
 - WATER METER
 - PROPERTY LINE
 - FENCE
 - OVERHEAD POWER LINE
 - EXISTING CONTOURS MINOR
 - EXISTING CONTOURS MAJOR
 - PROPOSED CONTOURS
 - EXISTING SPOT GRADES
 - PROPOSED SPOT GRADES
 - DIMENSIONAL CONTROL
- PAVEMENT LEGEND**
- STANDARD PAVEMENT
 - DUMPSTER PAD AND APRON
 - SIDEWALK PAVEMENT
 - GRAVEL TRANSITION

Point Table

Point #	Northing	Easting
1	7171809.5692	2489647.7475
2	7171809.7392	2489642.7504
3	7171804.5783	2489619.1541
4	7171763.3718	2489594.0748
5	7171781.1922	2489614.2624
6	7171739.5934	2489612.8458
7	7171740.8120	2489577.0322
8	7171774.7381	2489578.2363
9	7171775.4261	2489558.0117
10	7171776.2769	2489533.0262
11	7171801.2624	2489533.8770
12	7171801.7729	2489518.8857
13	7171820.0124	2489519.5068
14	7171818.6510	2489559.4837
15	7171819.8632	2489559.5249
16	7171827.5273	2489575.5976
17	7171818.0214	2489577.9729
18	7171799.7819	2489577.3518
19	7171823.8977	2489682.3223
20	7171808.9093	2489681.8123
21	7171808.6850	2489687.7769
22	7171806.6657	2489747.7430
23	7171802.9278	2489759.9300
24	7171788.1443	2489703.8944
25	7171805.1345	2489704.4723
26	7171804.2842	2489729.4578
27	7171787.2809	2489728.9258

SEE MECHANICAL/STRUCTURAL PLANS FOR SLAB ELEVATIONS AND DRAINAGE (SEE MS-200)



BAR IS ONE INCH IN LENGTH ON ORIGINAL DRAWING. CHECK SCALE AND ADJUST ACCORDINGLY.

ONE INCH

Essayon Engineering & Dev., Inc.
 1723 E. Southlake Blvd.
 Suite 120
 Southlake, Texas 76092
 # 004684

(972) 790-0081 PHONE
 (214) 257-8347 FAX
 dmcswain@essayoneng.com

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ATTACHMENT 1-AD4

REFERENCES: Celina_Ex_Boundary_map PRINTED: 9/18/2012 5:38 PM Y:\E1\PROJECT FILES\06 Celina\4C_WTP Improvements\A.Dwg\Celina Base 8_SEP_18_2012.dwg SAVED: 9/18/2012 5:09 PM USER: David

NO.	DATE	DESCRIPTION	BY
01/15		ISSUED FOR RECORD	FJC
11/12		PER CHANGE ORDER CO-001	FJC
		REVISION	BY

DESIGNED BY JCK
 DRAWN BY DGM
 CHECKED BY DGM
 REVIEWED BY RRS

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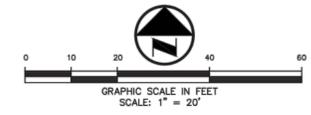
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CITY OF CELINA, TEXAS
 CELINA WASTEWATER TREATMENT PLANT
 SLUDGE DEWATERING IMPROVEMENTS

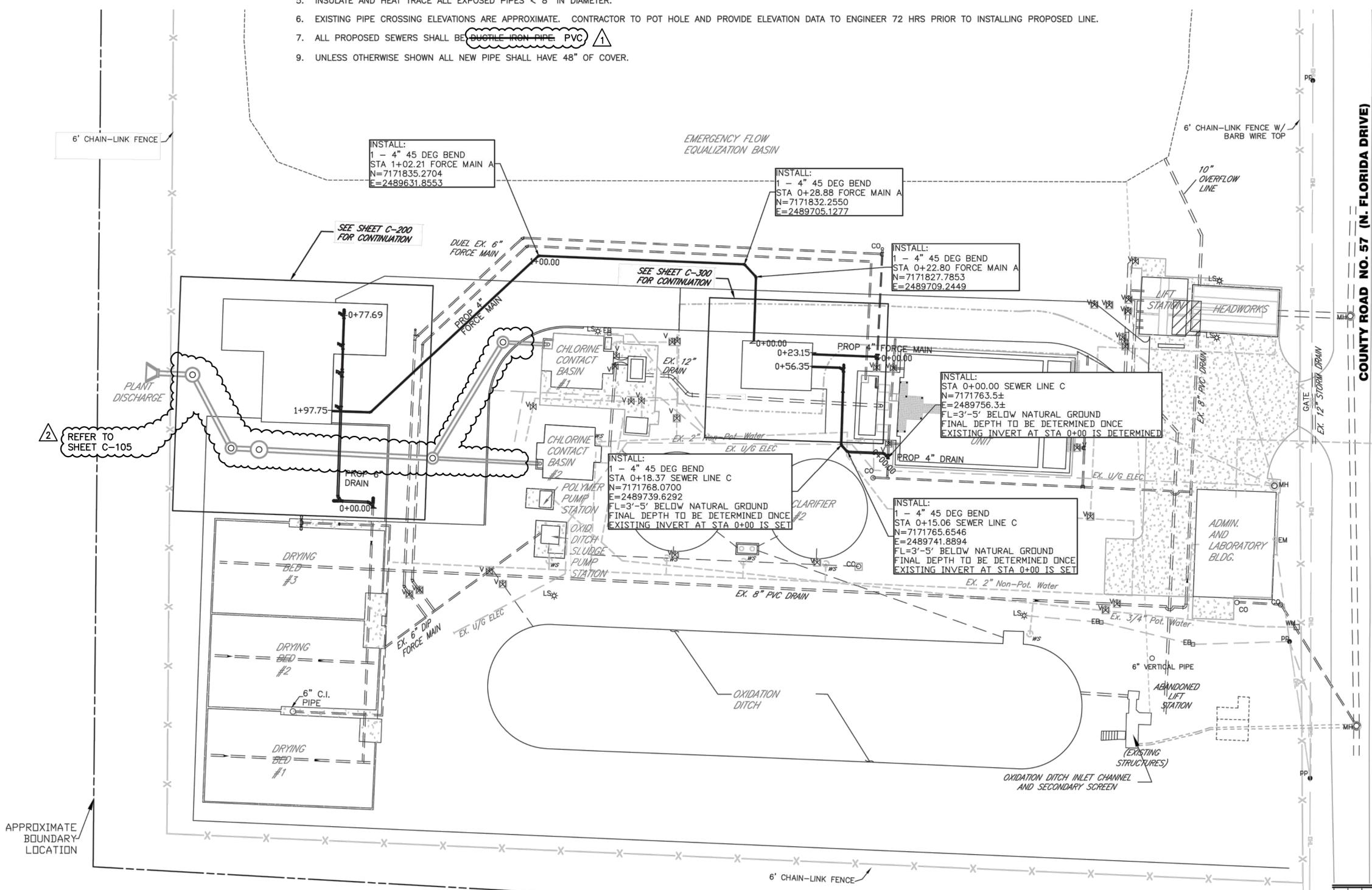
CIVIL
 PAVING PLAN

Seq. 8 of 43
 Dwg. No. C-101
 JOB NO: 0856-003-01

- NOTES:**
- SEQUENCE OF DEMOLITION IN THIS AREA TO BE COORDINATED WITH THE OWNER.
 - DIMENSIONS, ELEVATIONS AND DETAILS OF EXISTING FACILITIES ARE BASED ON PREVIOUS CONSTRUCTION PLANS. THE OWNER AND/OR ENGINEER HAS NOT FIELD VERIFIED THE DIMENSIONS AND ELEVATIONS. THE ACCURACY AND COMPLETENESS OF THE INFORMATION SHOWN ON THIS DRAWING IS NOT GUARANTEED. SOME OF THE EXISTING EQUIPMENT INFORMATION HAVE BEEN OMITTED FOR CLARITY. ACTUAL DIMENSIONS, ELEVATIONS AND DETAILS WILL VARY. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING THE JOB TO DETERMINE THE EXTENT OF WORK AND THE DIFFICULTIES IN CONSTRUCTION OF THE NEW FACILITIES. THE CONTRACTOR SHALL FIELD VERIFY PRIOR TO FABRICATION AND CONSTRUCTION AND MAKE ANY NECESSARY ADJUSTMENTS AT NO ADDITIONAL COST AND EXTENSION OF THE CONTACT TIME TO THE OWNER.
 - PROTECT EXISTING STRUCTURES, PIPING AND EQUIPMENT WHICH ARE TO REMAIN. REPLACE ITEMS DAMAGED BY CONSTRUCTION OR DEMOLITION AT NO COST TO OWNER. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL VIDEO TAPE AND TAKE PICTURES OF EXISTING FACILITIES.
 - CONCRETE ENCASE ALL PIPE UNDER STRUCTURE TO MJ CONNECTION, EXCEPT WHERE IT IS NEGATED BY AWARD OF ALTERNATE BID ITEM. ENCASEMENT DOES NOT REPLACE SPECIFIED MECHANICAL RESTRAINT.
 - INSULATE AND HEAT TRACE ALL EXPOSED PIPES < 8" IN DIAMETER.
 - EXISTING PIPE CROSSING ELEVATIONS ARE APPROXIMATE. CONTRACTOR TO POT HOLE AND PROVIDE ELEVATION DATA TO ENGINEER 72 HRS PRIOR TO INSTALLING PROPOSED LINE.
 - ALL PROPOSED SEWERS SHALL BE DUCTILE IRON PIPE PVC Δ
 - UNLESS OTHERWISE SHOWN ALL NEW PIPE SHALL HAVE 48" OF COVER.



- LEGEND**
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 - BOLLARD
 - POWER POLE
 - LIGHT STANDARD
 - VALVE
 - CLEAN OUT
 - MANHOLE
 - GAS METER
 - ELECTRIC BOX
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 - EXISTING CONTOURS MINOR
 - EXISTING CONTOURS MAJOR
 - PROPOSED CONTOURS
 - EXISTING SPOT GRADES
 - PROPOSED SPOT GRADES
 - DIMENSIONAL CONTROL



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ATTACHMENT 1-AD4

REFERENCES: Celina_Ex_Boundary map
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11/12		PER CHANGE ORDER CO-001	FJC

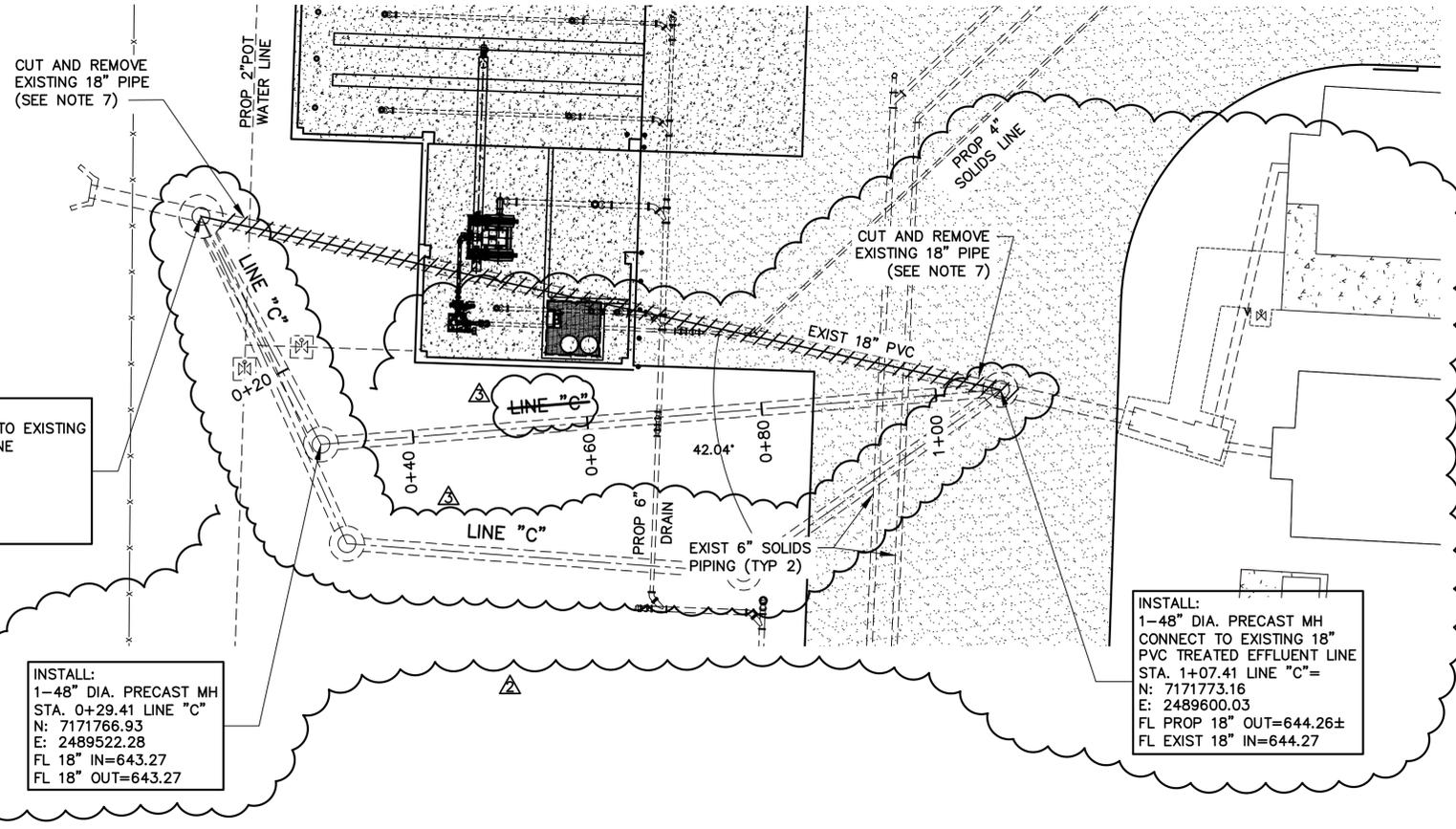
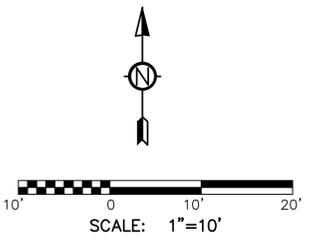
DESIGNED BY JCK
 DRAWN BY DGM
 CHECKED BY DGM
 REVIEWED BY RRS

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CITY OF CELINA, TEXAS
 CELINA WASTEWATER TREATMENT PLANT
 SLUDGE DEWATERING IMPROVEMENTS

CIVIL
 SANITARY SEWER
 YARD PIPING PLAN

Seq. 10 of 43
 Dwg. No. C-103
 JOB NO: 0856-003-01



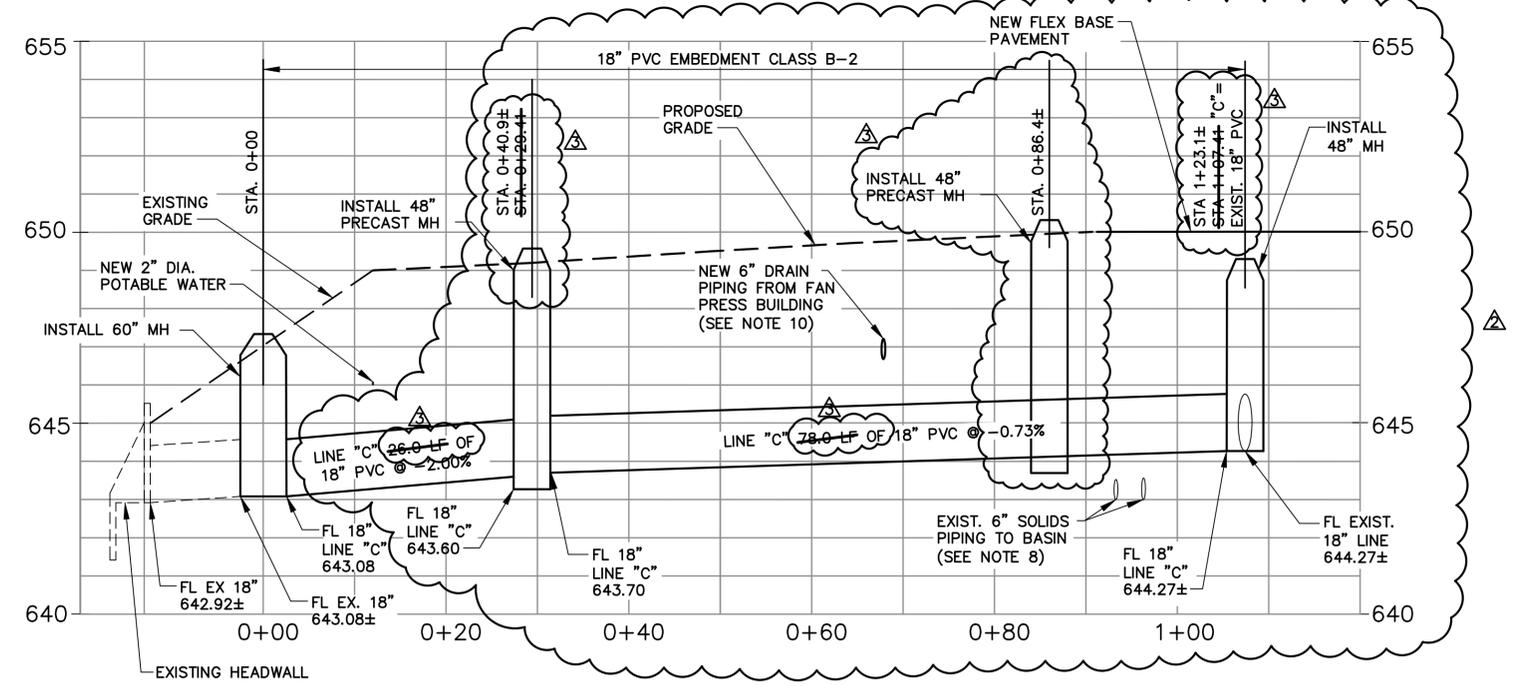
INSTALL:
 1-60" DIA. MH AND CONNECT TO EXISTING
 18" PVC TREATED EFFLUENT LINE
 STA. 0+00 LINE "C"
 N: 7171792.94
 E: 2489508.55
 FL PROP 18" IN=643.08±
 FL EX 18" OUT=643.08±

INSTALL:
 1-48" DIA. PRECAST MH
 STA. 0+29.41 LINE "C"
 N: 7171766.93
 E: 2489522.28
 FL 18" IN=643.27
 FL 18" OUT=643.27

INSTALL:
 1-48" DIA. PRECAST MH
 CONNECT TO EXISTING 18"
 PVC TREATED EFFLUENT LINE
 STA. 1+07.41 LINE "C"=
 N: 7171773.16
 E: 2489600.03
 FL PROP 18" OUT=644.26±
 FL EXIST 18" IN=644.27

NOTES:

1. THE CONTRACTOR SHALL MAINTAIN PLANT FLOW THROUGH THE EXISTING FLUME AND DISCHARGE PIPING WHILE CONSTRUCTING THE NEW PIPING.
2. THE CONNECTING PIPING SHALL BE INSTALLED AND FULLY TESTED PRIOR TO THE CONSTRUCTION OF OVERLYING IMPROVEMENTS.
3. DEMOLISH EXISTING DISCHARGE PIPING WHERE IT INTERFERES WITH THE IMPROVEMENTS SHOWN.
4. MANHOLE SHALL BE CONSTRUCTED ACCORDING TO THE CURRENT NTCOG STANDARD DETAILS FOR PRE-CAST, CAST IN PLACE OR FIBERGLASS MANHOLES. PROVIDE FLEXIBLE BOOT CONNECTIONS WITH 316 SS STRAPS.
5. PROVIDE CONCRETE CRADLE TO SPRING LINE OF EXISTING PIPE AND NEW FITTING/COUPLING DISCHARGE. PROVIDE ALL ADAPTERS AND 316SS HARDWARE FOR CONNECTION TO EXISTING LINE.
6. THE CONTRACTOR SHALL VERIFY EXISTING SOLIDS PIPING DEPTH AND ROUTE EXISTING SOLIDS PIPING BELOW PROPOSED 18" DIP EFFLUENT LINE. INSTALL A 12-IN SADDLE BETWEEN EACH 4-IN SOLIDS LINE AND THE NEW EFFLUENT LINE AS NECESSARY.
7. CONSTRUCT LINE "C" PRIOR TO BEGINNING WORK ON THE NEW SOLIDS AREA AND ADJACENT PAVING. CONSTRUCT LINE WITHOUT DISTURBING EXISTING YARD PIPING. COORDINATE WITH OWNER FOR A 2-HOUR TOTAL PLANT SHUT DOWN TO CUT OUT THE EXISTING 18" PVC EFFLUENT LINE FROM INSIDE THE NEW 60" AND 48" DIAMETER MANHOLES TO ALLOW FLOW TO ENTER FROM LINE "C." DEMOLISH OR ABANDON THE REMAINING ITEMS AS SPECIFIED FOLLOWING A RETURN TO NORMAL OPERATION USING THE NEW DISCHARGE PIPING.
8. PROVIDE CONCRETE CRADLE BETWEEN LINE "C" AND DRAIN LINE FROM FAN PRESS BUILDING.



PROFILE - LINE "C"

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 ONE INCH

REFERENCES: Celina_Base 8_AUG 29 2012.dwg Celina_TLBU.dwg Celina_PROP_DISCHARGE_PIPE.dwg Celina_PROP_DEWATERING.dwg
 Feb 28, 2013 11:08am \\sdr\ad\pl\share\Projects\0856\0856-01\ADDENDA\ADDENDUM_NO.4\Wood\C-105.dwg DATOUT: EFFLUENT DISCHARGE PIPING USER

NO.	DATE	REVISION	BY
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3	11/12	PER CHANGE ORDER CO-001	RJE
4	9/12	REPLACED SHEET PER ADDENDUM AD4	RJE

DESIGNED BY	RRS
DRAWN BY	HLT/JLC
CHECKED BY	TDM
REVIEWED BY	TJN

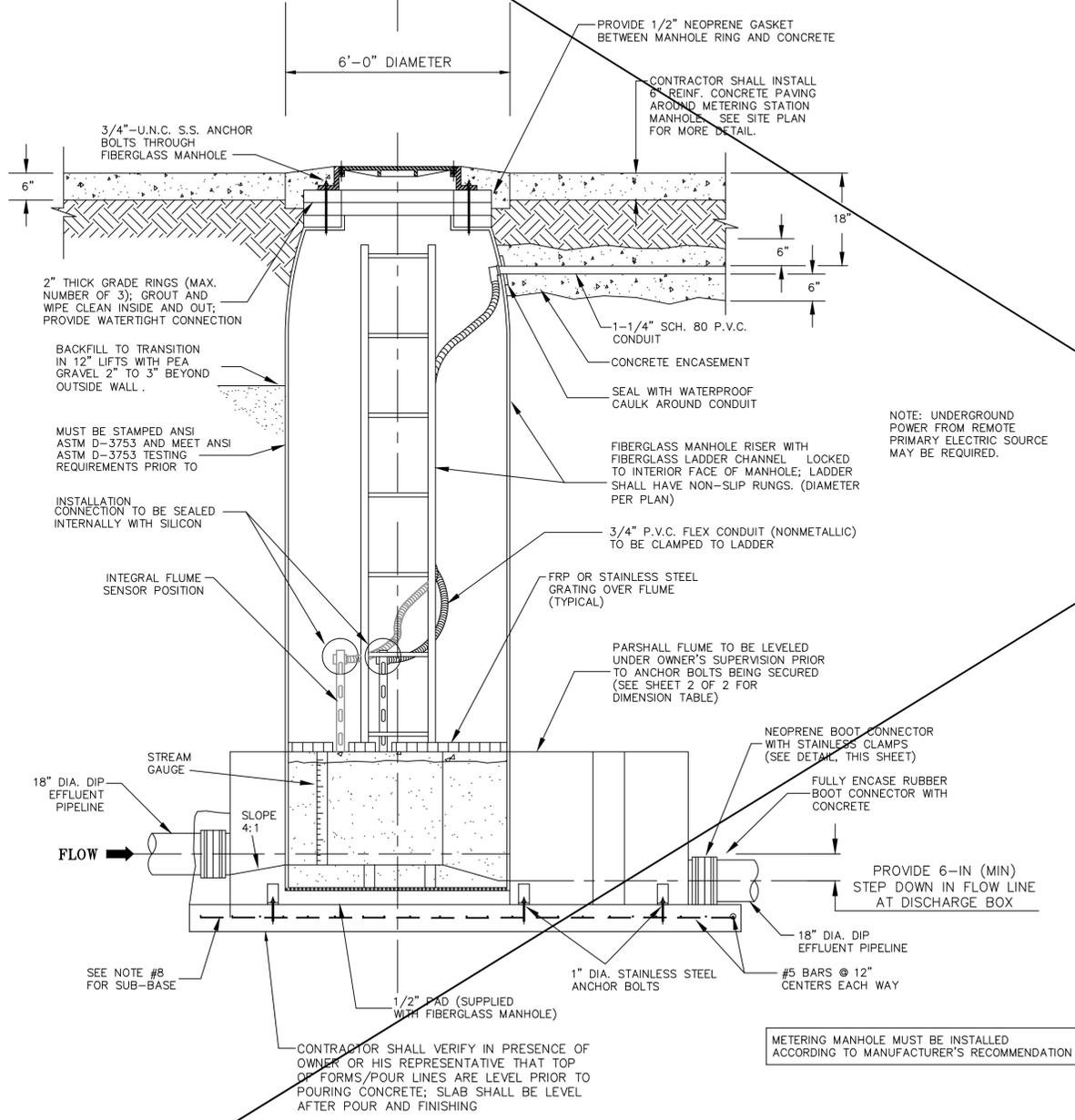
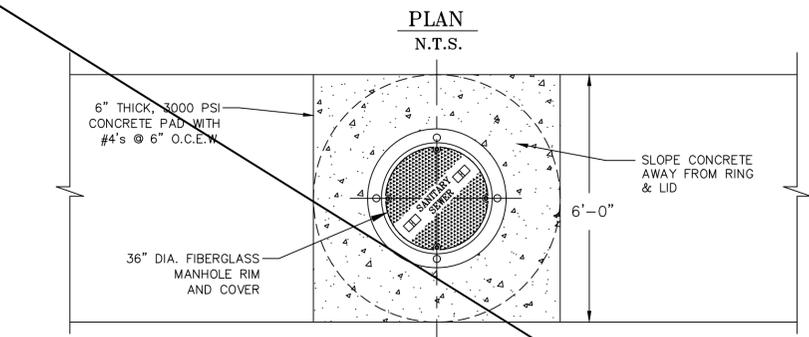
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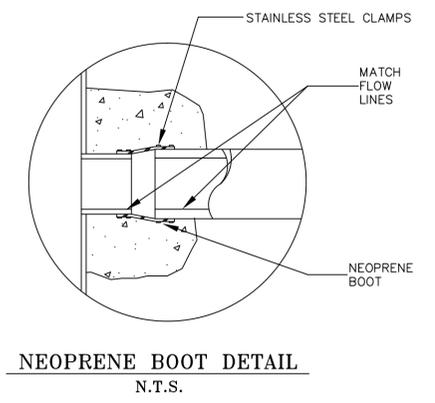
CITY OF CELINA, TEXAS
 CELINA WASTEWATER TREATMENT PLANT
 SLUDGE DEWATERING IMPROVEMENTS

CIVIL
**EFFLUENT DISCHARGE PIPING
 PLAN AND PROFILE**

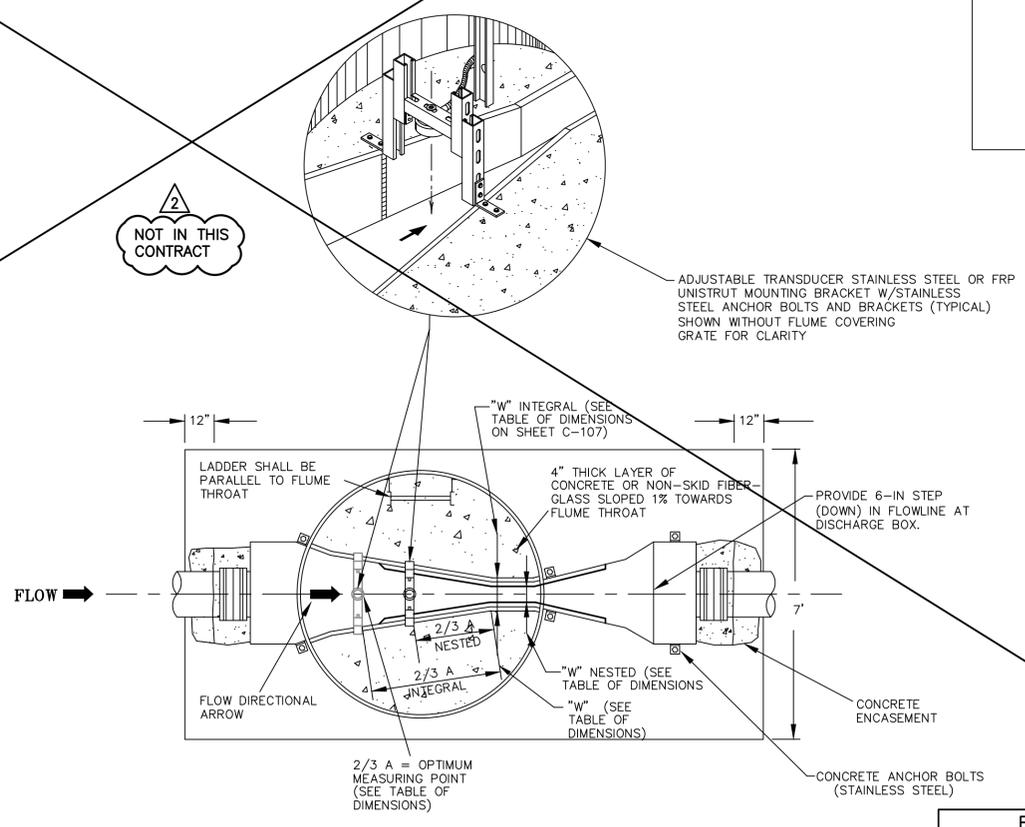
REFERENCES: Celina-TLBUK Feb 26, 2015 - 11:11am \\del.dai.apa\share\Projects\0856\003-01\ADDENDA\ADDENDUM_NO_4\Acad\C-106.dwg LAYOUT: PACKAGED METERING MANHOLE USER:



METERING MANHOLE SECTION
N.T.S.



NEOPRENE BOOT DETAIL
N.T.S.



SECTIONAL PLAN
N.T.S.

- GENERAL NOTES:**
1. ALL CONCRETE SHALL BE TYPE II, 3,000 PSI UNLESS OTHERWISE NOTED.
 2. ALL CAST IRON SHALL MEET ANSI A21.10 SPECIFICATIONS.
 3. STEEL SHALL BE ASTM A615 GRADE 60.

- NOTES:**
1. ALL OUTSIDE CONDUITS AND FITTINGS SHALL BE HOT DIPPED RIDGED GALVANIZED COATED CONDUIT AND SHALL HAVE A 40 MIL. NOMINAL THICKNESS OF P.V.C. COATING BONDED TO THE CONDUIT, BY FLUIDIZED BED METHOD. INSIDE CONDUIT SHALL BE 3/4" P.V.C. FLEX CONDUIT NON-METALLIC CHANNEL FIXED IN PLACE WITH CONDUIT TIES.
 2. METERING MANHOLE SHALL BE LOCATED AS SHOWN ON PLANS.
 3. ALL POWER AND/OR CONTROL CONDUCTORS SHALL BE TIN-COATED RUBBER POWER AND CONTROL WIRE CABLE.
 4. ENCLOSURES FOR ALL INSTRUMENTATION AND EQUIPMENT AND ELECTRICAL LIGHTING PANEL SHALL BE NEMA-4X.
 5. CALIBRATION OF INSTRUMENTS FURNISHED SHALL BE ACCOMPLISHED BY A QUALIFIED REPRESENTATIVE OF THE MANUFACTURER OF THE INSTRUMENTS, WITH OWNER PRESENT.
 6. ROUTE SIGNAL CONDUIT ON SITE.
 7. ALL CONDUITS SHALL BE SEALED AT PANELBOARDS, JUNCTION BOXES, CONDUITS AND AT TERMINATION POINTS. ALL CONDUIT CONNECTIONS SHALL BE THE SAME TYPE AS THE CONDUIT AND WITH THREADED HUBS.
 8. a) THE SOIL UNDER THE CONCRETE SLAB SHALL BE UNDISTURBED.
b) IF IMPROPER SOIL CONDITIONS ARE ENCOUNTERED WHICH WOULD CREATE A POOR SUB-BASE FOR PLACEMENT OF THE CONCRETE SLAB, THE DEPTH SHALL BE OVER-EXCAVATED AND STONE SHALL BE PLACED BEFORE CONCRETE IS POURED. A UNIT COST IS PROVIDED IN THE PROPOSAL.
 9. ALL METAL FITTINGS, CLAMPS, BOLTS, ETC., INSIDE THE FLUME AREA SHALL BE 316 STAINLESS STEEL.
 10. SEE SPECIFICATION SECTION 01011 FOR ADDITIONAL INFORMATION.

NOT IN THIS CONTRACT

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3	9/12	REPLACED SHEET PER ADDENDUM AD4

DESIGNED BY	RRS
DRAWN BY	HLT
CHECKED BY	RRS
REVIEWED BY	TJN

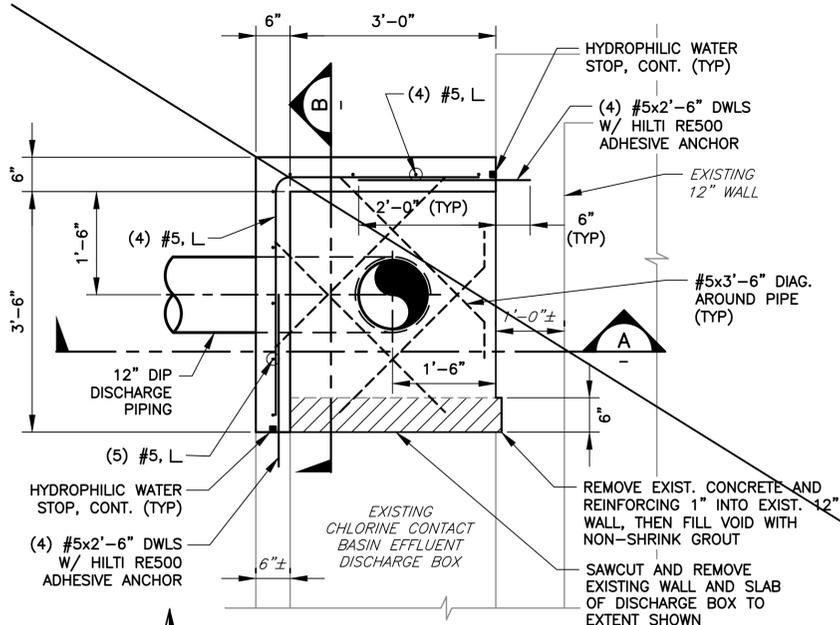
DESIGNED BY	RRS
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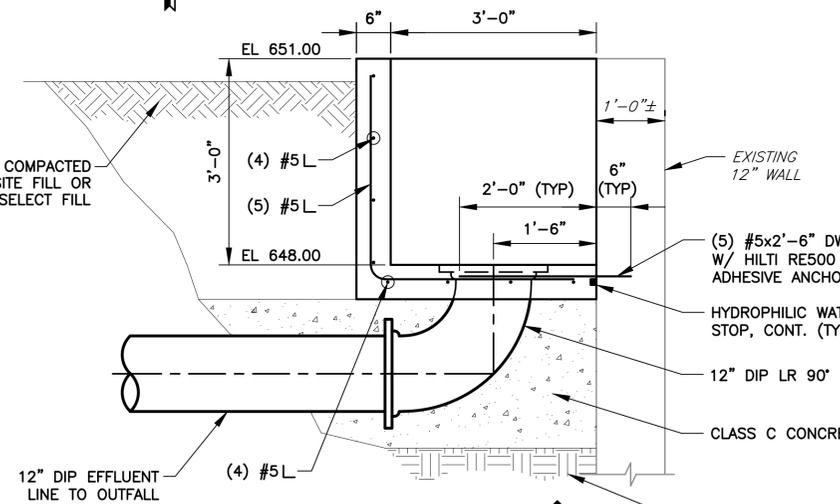
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CITY OF CELINA, TEXAS
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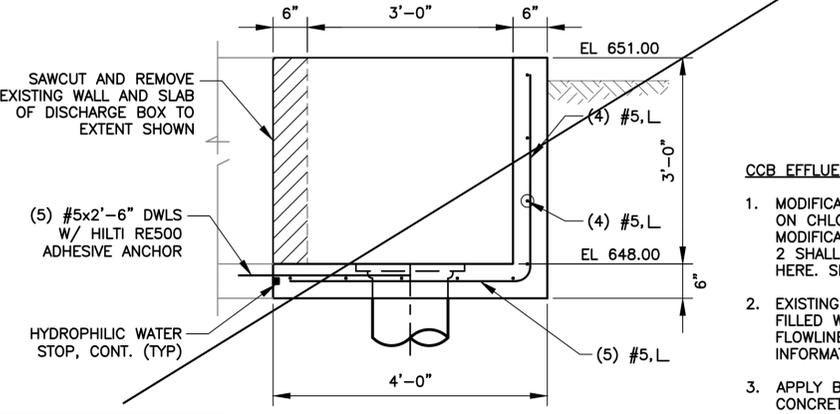
CIVIL
PACKAGED METERING MANHOLE



CHLORINE CONTACT BASIN EFFLUENT DISCHARGE BOX MODIFICATION
PLAN
 SCALE: 3/4"=1'-0" C-105



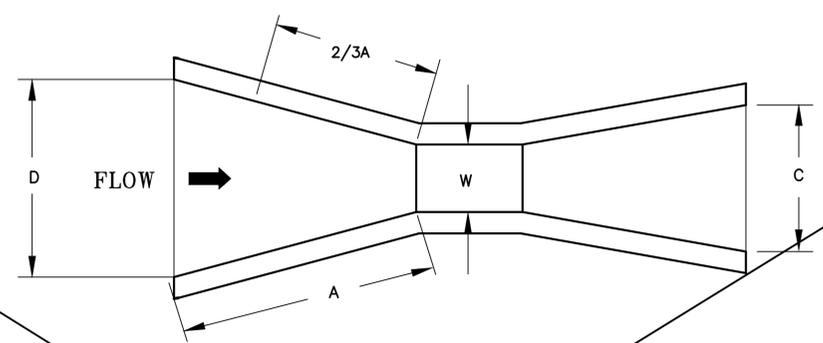
SECTION A-A
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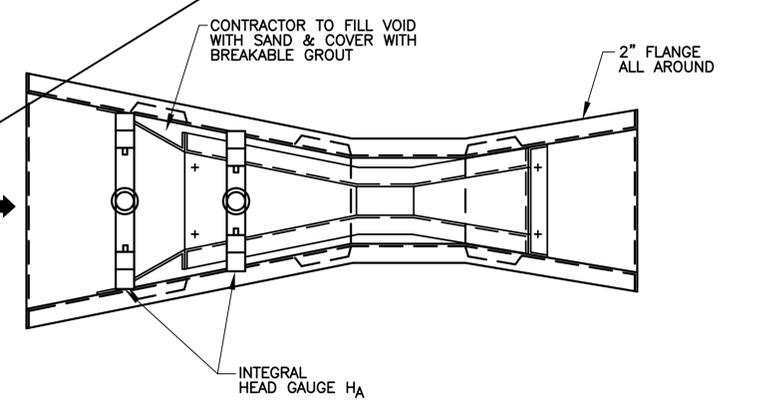
SECTION B-B
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PARSHALL FLUME TABLE OF DIMENSIONS

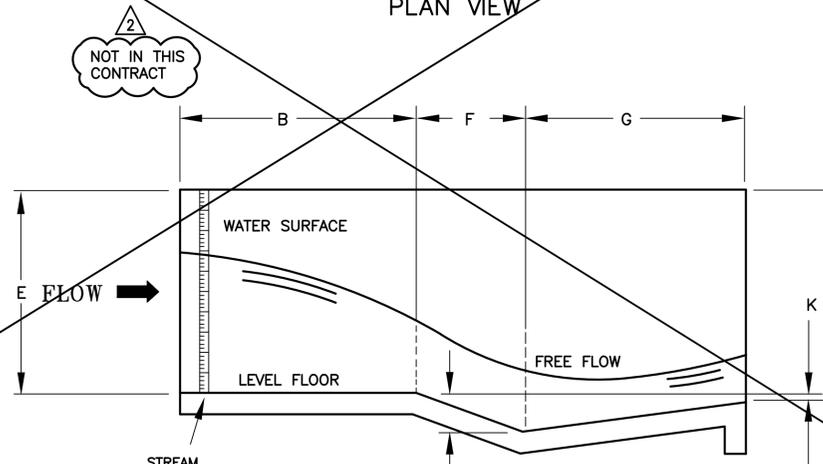
Configuration	W	A	2/3A	B	C	D	E	F	G	H	J	K	FLUME FLOW RANGE			
													MIN.		MAX.	
													MGD.	GPM.	MGD.	GPM.
INTEGRAL	9"	2'-10 5/8"	1'-11 1/8"	2'-10"	1'-3"	1'-10 5/8"	2'-6"	1'-0"	1'-6"	2'-9"	4 1/2"	3"	0.065	45.00	5.62	3,900
NESTED	6"	2'-0 7/16"	1'-4 5/16"	2'-0"	1'-3 1/2"	1'-3 5/8"	2'-0"	1'-0"	2'-0"	2'-3"	4 1/2"	3"	0.036	25.00	2.52	1,750



PLAN VIEW

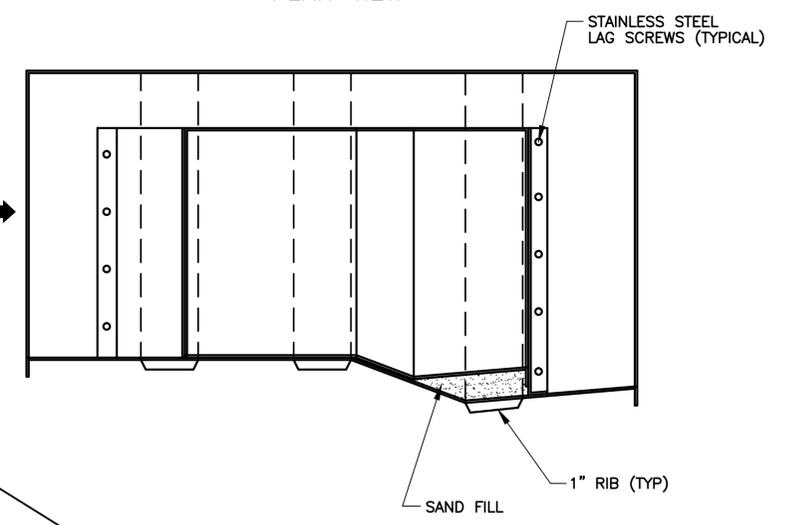


PLAN VIEW



PROFILE VIEW

PARSHALL FLUME DIMENSION DETAILS
 N.T.S.



PROFILE VIEW

FLUME NESTING DETAIL
 N.T.S.

- CCB EFFLUENT DISCHARGE BOX NOTES:**
- MODIFICATIONS SHOWN ARE FOR DISCHARGE BOX ON CHLORINE CONTACT BASIN NO. 1. MODIFICATIONS FOR CHLORINE CONTACT BASIN NO. 2 SHALL BE A MIRROR IMAGE OF DETAILS SHOWN HERE. SEE SHEET C-105.
 - EXISTING DISCHARGE PIPE IN BOX SHALL BE FILLED WITH NON-SHRINK GROUT FLUSH WITH FLOWLINE OF BOX. SEE SHEET C-105 FOR MORE INFORMATION.
 - APPLY BONDING AGENT TO EXPOSED EXISTING CONCRETE SURFACE PRIOR TO PROPOSED CONCRETE PLACEMENT.

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REFERENCES: C:\p1\T1\B1\K Feb 26, 2015 \\d01.tad.apc\share\Projects\0856\003-01\ADDENDA\ADDENDUM_NO_4\Acad\C-107.dwg LAYOUT: FLUME DETAILS USER:

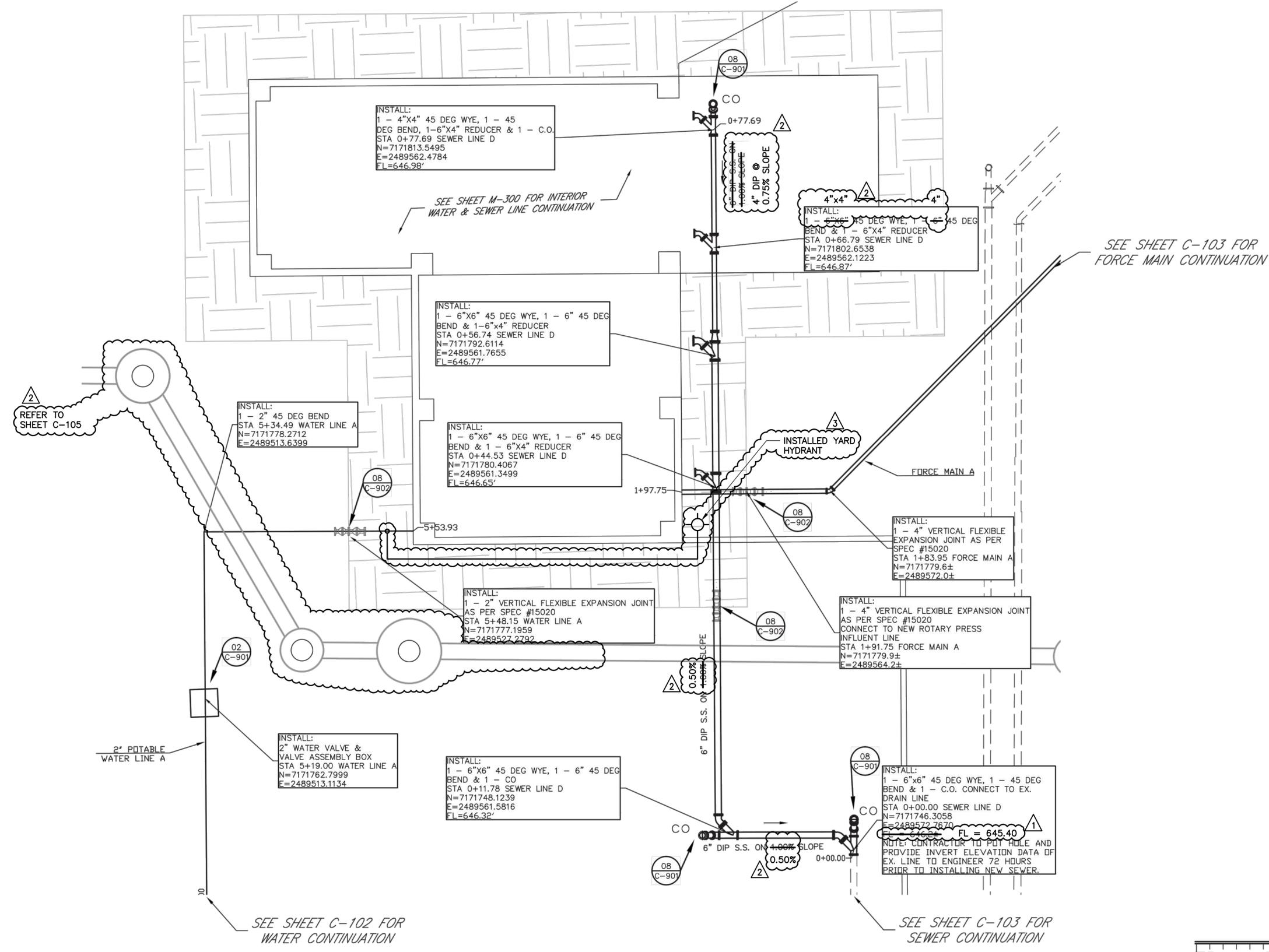
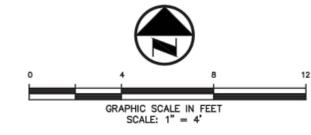
NO.	DATE	REVISION	BY	DESIGNED BY	TDM
1	01/15	ISSUED FOR RECORD	FJC	DRAWN BY	RJE
2	11/12	PER CHANGE ORDER CO-001	FJC	CHECKED BY	TDM
3	9/12	ADDED SHEET PER ADDENDUM A4	RJE	REVIEWED BY	TJN



ALAN PLUMMER ASSOCIATES, INC.
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 DALLAS, TEXAS 75247-4066
 PHONE: 214-631-6100 FAX: 214-631-6109
 TBPE REGISTRATION NO. F-13

CITY OF CELINA, TEXAS
 CELINA WASTEWATER TREATMENT PLANT
 SLUDGE DEWATERING IMPROVEMENTS

CHLORINE CONTACT BASIN DISCHARGE BOX
 DETAILS AND PARSHALL FLUME DETAILS



- NOTES:**
- REFER TO SPECIFICATION SECTION FOR COORDINATION AND SCHEDULE REQUIREMENTS FOR DEMOLITION IN THIS AREA. SEQUENCE TO BE COORDINATED WITH THE OWNER.
 - REMOVE AND DISPOSE OF MATERIAL AS PER OWNER'S PREFERENCE OFF SITE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL LAWS. PROVIDE UP TO 160 CY OF SELECT FILL, COMPACTED IN PLACE BENEATH THE BUILDING.
 - DIMENSIONS, ELEVATIONS AND DETAILS OF EXISTING FACILITIES ARE BASED ON PREVIOUS CONSTRUCTION PLANS. THE OWNER AND/OR ENGINEER HAS NOT FIELD VERIFIED THE DIMENSIONS AND ELEVATIONS. THE ACCURACY AND COMPLETENESS OF THE INFORMATION SHOWN ON THIS DRAWING IS NOT GUARANTEED. SOME OF THE EXISTING EQUIPMENT INFORMATION HAVE BEEN OMITTED FOR CLARITY. ACTUAL DIMENSIONS, ELEVATIONS AND DETAILS WILL VARY. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING THE JOB TO DETERMINE THE EXTENT OF WORK AND THE DIFFICULTIES IN CONSTRUCTION OF THE NEW FACILITIES. THE CONTRACTOR SHALL FIELD VERIFY PRIOR TO FABRICATION AND CONSTRUCTION AND MAKE ANY NECESSARY ADJUSTMENTS AT NO ADDITIONAL COST AND EXTENSION OF THE CONTACT TIME TO THE OWNER.
 - PROTECT EXISTING STRUCTURES, PIPING AND EQUIPMENT WHICH ARE TO REMAIN. REPLACE ITEMS DAMAGED BY CONSTRUCTION OR DEMOLITION AT NO COST TO OWNER. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL VIDEO TAPE AND TAKE PICTURES OF EXISTING FACILITIES.
 - PAINT ALL NEW EQUIPMENT, PIPING, FITTINGS, VALVES AND SUPPORTS EXCEPT STAINLESS STEEL, ALUMINUM, AND FIBERGLASS IN ACCORDANCE WITH SPECIFICATION SECTION 09910. COLORS SHALL BE SELECTED BY OWNER.
 - CONCRETE ENCASE ALL PIPE UNDER STRUCTURE TO MJ CONNECTION.
 - INSULATE AND HEAT TRACE ALL EXPOSED PIPES < 8" DIAMETER.
 - ALL NEW WATER AND POLYMER CONVEYING PIPES ARE TO BE INSTALLED ABOVE GROUND ON PIPE SUPPORTS. PIPE SUPPORT SPACING SHALL BE IN ACCORDANCE WITH SPEC #15060.
 - WHERE NEW LINES CROSS EXISTING OR PROPOSED LINES, A MINIMUM OF 1.0 FT OF CLEARANCE SHALL BE MAINTAINED, MEASURED OUTSIDE DIAMETER TO OUTSIDE DIAMETER.

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 214-631-6100



Essayon Engineering & Dev., Inc.

1723 E. Southlake Blvd.
 Suite 120
 Southlake, Texas 76092
 # 004684

(972) 790-0081 PHONE
 (214) 257-8347 FAX
 dmcswain@essayoneng.com

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY DAVID G. MCSWAIN, P.E. 87559 ON DATE 9/18/2012. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

ATTACHMENT 1-AD4

REFERENCES: Celina_EX_Boundary_map
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04/13		PER FIELD ORDER FO-002	FJC
04/13		AS PROVIDED BY CONTRACTOR	FJC

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 DRAWN BY DGM
 CHECKED BY DGM
 REVIEWED BY RRS

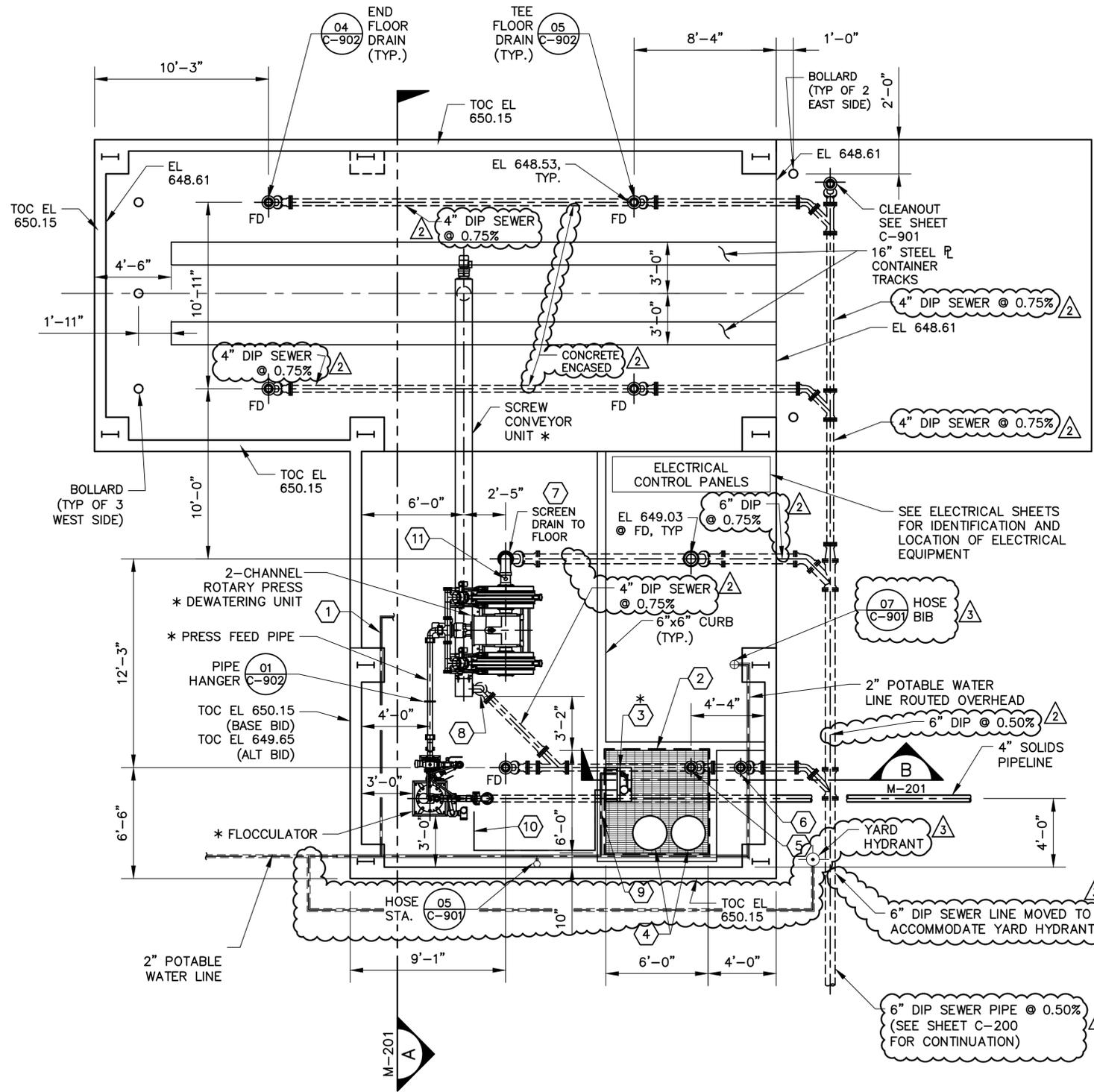
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ALAN PLUMMER ASSOCIATES, INC.
 1349 EMPIRE CENTRAL DRIVE, SUITE 1000
 DALLAS, TEXAS 75247-4066
 PHONE: 214-631-6100 FAX: 214-631-6109
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CITY OF CELINA, TEXAS
 CELINA WASTEWATER TREATMENT PLANT
 SLUDGE DEWATERING IMPROVEMENTS

CIVIL
 FAN PRESS YARD PIPING PLAN

Seq. 15 of 43
 Dwg. No. C-200
 JOB NO: 0856-003-01



* ITEMS PROVIDED BY ROTARY PRESS SUPPLIER

ROTARY FAN PRESS AND CONVEYOR
PLAN
 SCALE: 1/4" = 1'-0"

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NOTES:

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- REMOVE AND DISPOSE OF MATERIAL AS PER OWNER'S PREFERENCE OFF SITE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL LAWS.
- DIMENSIONS, ELEVATIONS AND DETAILS OF EXISTING FACILITIES ARE BASED ON PREVIOUS CONSTRUCTION PLANS. THE OWNER AND/OR ENGINEER HAS NOT FIELD VERIFIED THE DIMENSIONS AND ELEVATIONS. THE ACCURACY AND COMPLETENESS OF THE INFORMATION SHOWN ON THIS DRAWING IS NOT GUARANTEED. SOME OF THE EXISTING EQUIPMENT INFORMATION HAVE BEEN OMITTED FOR CLARITY. ACTUAL DIMENSIONS, ELEVATIONS AND DETAILS WILL VARY. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING THE JOB TO DETERMINE THE EXTENT OF WORK AND THE DIFFICULTIES IN CONSTRUCTION OF THE NEW FACILITIES. THE CONTRACTOR SHALL FIELD VERIFY PRIOR TO FABRICATION AND CONSTRUCTION AND MAKE ANY NECESSARY ADJUSTMENTS AT NO ADDITIONAL COST AND EXTENSION OF THE CONTACT TIME TO THE OWNER.
- PROTECT EXISTING STRUCTURES, PIPING AND EQUIPMENT WHICH ARE TO REMAIN. REPLACE ITEMS DAMAGED BY CONSTRUCTION OR DEMOLITION AT NO COST TO OWNER. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL VIDEO TAPE AND TAKE PICTURES OF EXISTING FACILITIES.
- PAINT ALL NEW EQUIPMENT, PIPING, FITTINGS, VALVES AND SUPPORTS EXCEPT STAINLESS STEEL, ALUMINUM, AND FIBERGLASS IN ACCORDANCE WITH SPECIFICATION SECTION 09910. COLORS SHALL BE SELECTED BY OWNER.
- CONCRETE ENCASE ALL PIPE UNDER STRUCTURE FROM THE STRUCTURE TO MJ CONNECTIONS.
- INSULATE AND HEAT TRACE ALL EXPOSED PIPES.
- CONTRACTOR TO SUPPLY SHOP DRAWINGS FOR PRE-MANUFACTURED METAL CANOPIES FOR ENGINEERING APPROVAL. CANOPY SHALL MEET OR EXCEED REQUIREMENTS FOR COVERED AREA AND VERTICAL CLEARANCE FOUND ON SHEET M-200 AND SHEET M-201 RESPECTIVELY. ALL ROOF RUNOFF SHALL BE COLLECTED AND DRAINED WEST.
- REFER TO SHEET C-200 FOR CONNECTION LOCATIONS FOR THE 2" WATER SUPPLY/HOSE BIB, 6" MAIN DRAIN, 4" FLOOD DRAINS, AND 4" FORCE MAIN SUPPLY.
- EXISTING PIPE CROSSING ELEVATIONS ARE APPROXIMATE. CONTRACTOR TO POT HOLE AND PROVIDE ELEVATION DATA TO ENGINEER PRIOR TO INSTALLING PROPOSED LINE.
- ALTERNATE BID ITEM A-7: PROVIDE UN-INSULATED EXTERIOR AND INTERIOR PARTITION WALLS WHICH IN COMBINATION WITH THE BASE BID CANOPY AND COLUMNS SHALL FORM A COMPLETE PRE-ENGINEERED BUILDING PER SECTION 13125.
 - PROVIDE DOOR OPENINGS: INCLUDE ONE 3' x 3' CONVEYOR OPENING CENTERED ON CONVEYOR LOCATION AT THE WALL BETWEEN ROTARY PRESS AND DUMPSTER BUILDINGS (NORTH WALL OF 25' X 25' PRESS AREA), ONE (1) 36-IN DOOR (SAME WALL), ONE 10'X10' COILING DOOR (EAST) AND ONE 10'X10' COILING DOOR (WEST).
 - THE ALTERNATE BID ITEMS SHALL INCLUDE BUILDING SIZED USING THE PROVIDED SLAB SIZE. PROVIDE MINIMUM CLEAR HEIGHT OF 12 FEET (TOP OF SLAB TO LOWEST ROOF BEAM OR SUPPORT).
 - PROVIDE A 2-PIECE CLOSURE PLATE TO COVER OPENING AROUND CONVEYOR WHERE IT PASSES THROUGH THE WALL. CLOSURE PLATE MATERIAL SHALL MATCH WALL MATERIAL. BOLT TO WALL.
- BUILDING MANUFACTURER SHALL COORDINATE LOCATION OF ALL WINDOW OPENINGS, DOOR LOCATIONS, UTILITY CONNECTIONS & PIPING (WASHER, DRAINS, ELECTRICAL)

NOTES BY SYMBOL:

- POTABLE WATER FEED TO ROTARY PRESS/SCREW CONVEYOR.
- 6'-0"x6'-0" PRE-WIRED, CORROSION-RESISTANT, FOAM-INSULATED FIBERGLASS ENCLOSURE PLACED OVER 6'-0"x6'-0" CURBED SPACE COVERED WITH ALUMINUM GRATING. ENCLOSURE SHALL HAVE BUILT-IN HEATER AND EXHAUST FAN AND SHALL BE BY ASSOCIATED FIBERGLASS ENGINEERS (817-838-6786) OR APPROVED EQUIVALENT.
- * POLYMER BLENDING SYSTEM INSIDE 6'-0"x6'-0"x8'-0" TALL FIBERGLASS ENCLOSURE SHALL BE EQUAL TO SPECIFICATION 11420.
- SPACE FOR POLYMER DRUM STORAGE SHALL BE PROVIDED INSIDE FIBERGLASS ENCLOSURE.
- SLOPE TO 4" FLOOR DRAIN INSIDE CURBED SPACE UNDER ENCLOSURE AT ELEVATION 649.03.
- SLOPE TO 4" FLOOR DRAIN BETWEEN CURBED SPACE AND EXTERIOR WALL AT ELEVATION 649.03.
- 6" DRAIN HEADER FROM ROTARY SCREEN SHALL PENETRATE FLOOR AND ENTER DRAIN SYSTEM UNDER SLAB. SEE SECTION A ON SHEET M-201.
- 4" DRAIN PER MANUFACTURER FROM LOW END SIDE OF SCREW CONVEYOR. CONTRACTOR SHALL ROUTE 4" DRAIN PIPE HORIZONTALLY FROM CONVEYOR, TURN 90° DOWNWARD THROUGH SLAB AND ROUTE TO PROPOSED SEWER SYSTEM AS SHOWN.
- CONTRACTOR SHALL FIELD-ROUTE WATER SUPPLY FROM THE 2" FEED TO THE POLYMER BLENDING UNIT INSIDE FIBERGLASS ENCLOSURE. SIZE WATER LINE PER POLYMER BLENDING UNIT MANUFACTURER.
- CONTRACTOR SHALL FIELD-ROUTE POLYMER SOLUTION FROM BLENDING UNIT INSIDE FIBERGLASS ENCLOSURE TO FLOCCULATOR AS SHOWN. MANUFACTURER SHALL SIZE POLYMER SOLUTION LINE PER POLYMER BLENDING UNIT MANUFACTURER.
- 3/4" SAMPLE LINE CONNECTION ON UNDERSIDE OF 6" SCREEN DRAIN LINE THIS LOCATION. SEE SECTION A ON SHEET M-201.

THIS SEAL THAT ORIGINALLY APPEARED ON THIS DOCUMENT WAS AUTHORIZED BY JEFFEY E. CAFFEY, TEXAS NO. 81896 ON 09/18/2012. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION OF THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

REFERENCES: Celina-TLBU.dwg 0856-003-01 - Celina WWTP Dewatering Improvements XRef to Essayan
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 ONE INCH

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2	01/15	AS PROVIDED BY CONTRACTOR	FJC
3	04/13	PER FIELD ORDER FO-002	FJC
4	09/12	REPLACED SHEET PER ADDENDUM AD4	RJE

DESIGNED BY J. CAFFEY
 DRAWN BY R. ELLIS
 CHECKED BY J. CAFFEY
 REVIEWED BY T. NOACK

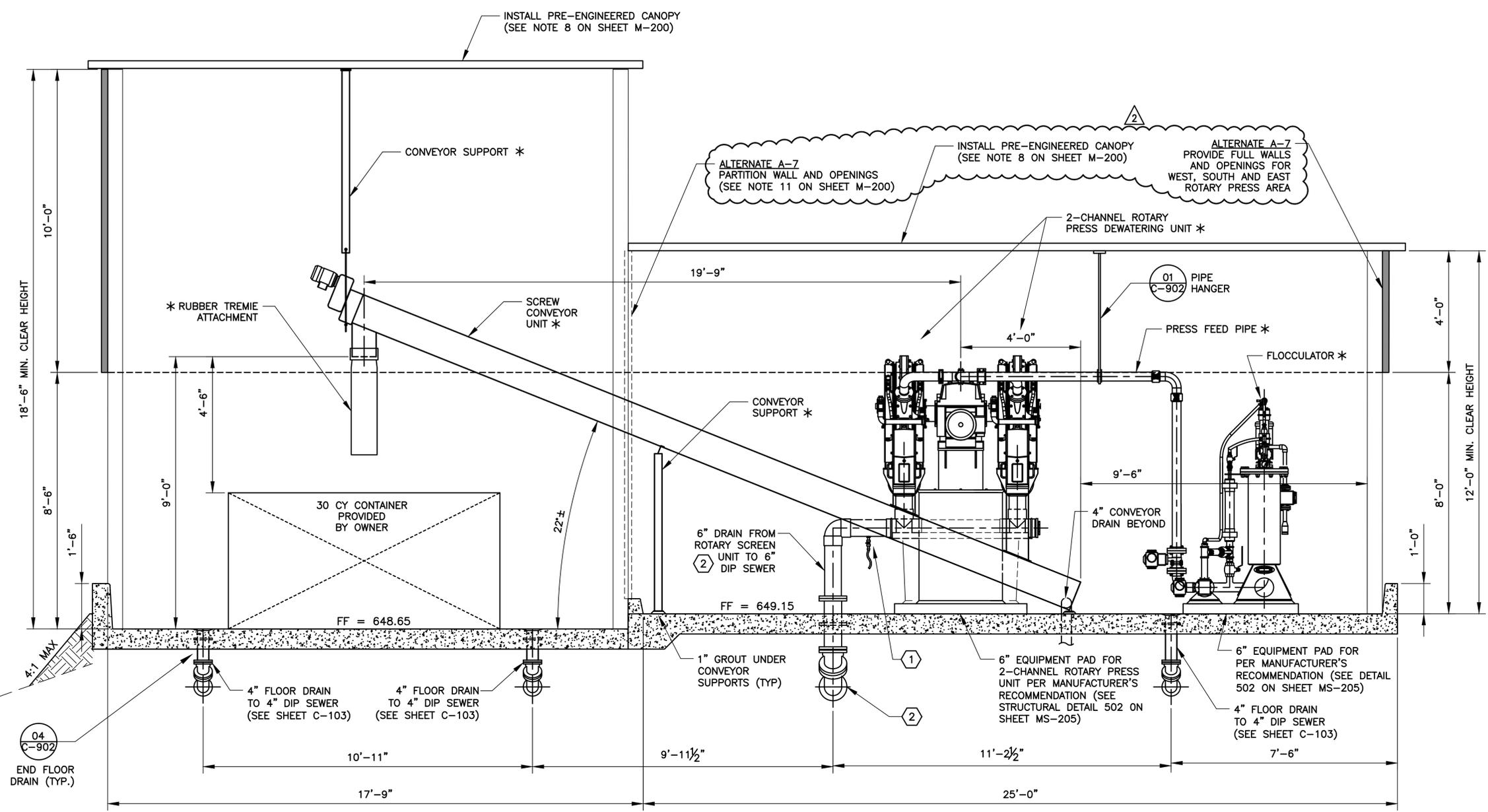
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CITY OF CELINA, TEXAS
 CELINA WASTEWATER TREATMENT PLANT
 SLUDGE DEWATERING IMPROVEMENTS

**MECHANICAL
 ROTARY FAN PRESS AND
 CONVEYOR PLAN**

Seq. 16 of 43
 Dwg. No. M-200
 0856-003-01

REFERENCES: C:\p1\T1\B\K Feb 26, 2015 \\d01\del\open\shere\Projects\0856\003-01\ADDENDUM\ADDENDUM_NO_4\Acad\M-201.dwg LAYOUT: M-201 USER:

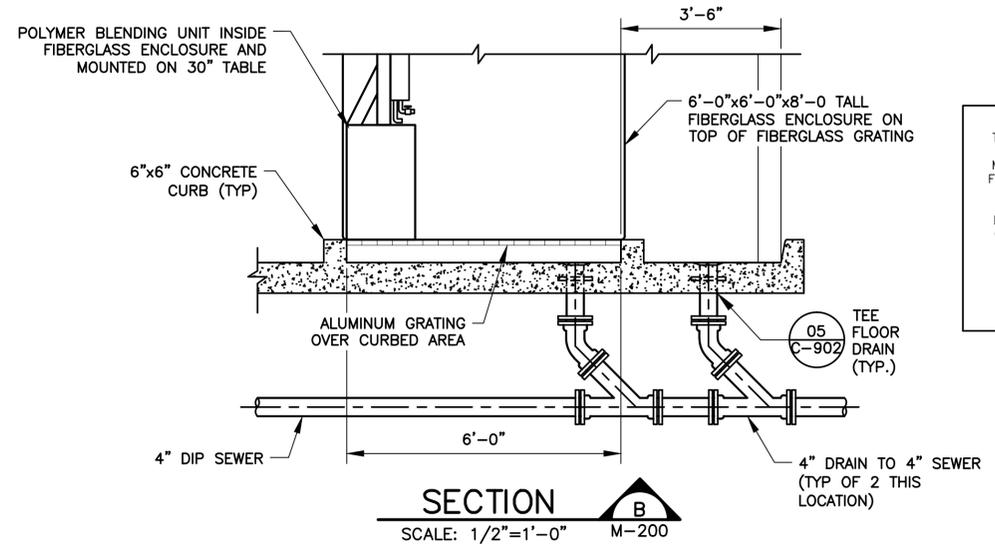


- NOTES:**
- REFER TO SPECIFICATION SECTION FOR COORDINATION AND SCHEDULE REQUIREMENTS FOR DEMOLITION IN THIS AREA. SEQUENCE TO BE COORDINATED WITH THE OWNER.
 - UTILIZE GUTTERS TO DRAIN ROOF AREA TO THE WEST. CONTRACTOR TO PROVIDE SHOP DRAWINGS SHOWING THE SIZE AND LOCATION OF GUTTERS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
 - BUILDING SKIRT TO BE INSTALLED ALONG THE FULL PERIMETER OF THE ENTIRE BUILDING EXCEPT FOR THE EAST FACE COVERING THE SLUDGE CONTAINER. CONTRACTOR TO PROVIDE SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
 - TYPICAL HEIGHT IS SHOWN, MINIMUM CLEAR HEIGHT SHALL BE 12 FEET OR 5 FEET ABOVE THE TOP OF INSTALLED EQUIPMENT WHICH EVER IS GREATER. INCREASE CANOPY HEIGHT AS REQUIRED TO PROVIDE CLEAR HEIGHT.

- NOTES BY SYMBOL:**
- INSTALL 3/4" SAMPLE LINE ON UNDERSIDE OF 6" DRAIN HEADER AS SHOWN. INSTALL 3/4" BOSS, 3/4" NIPPLE, 3/4" PVC BALL VALVE AND 3/4" x 12" LONG CLEAR FLEXIBLE TUBING.
 - ROUTE 6" PVC ROTARY PRESS DRAIN THROUGH SLAB AND CONNECT TO 6" DIP SEWER AS SHOWN. PROVIDE FLANGED WALL PIPE FOR PENETRATION THROUGH SLAB.

* EQUIPMENT PROVIDED BY ROTARY PRESS SUPPLIER

SECTION A
SCALE: 1/2"=1'-0" M-200



SECTION B
SCALE: 1/2"=1'-0" M-200

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02/14		PER CHANGE ORDER CO-004	FJC
09/12		REPLACED SHEET PER ADDENDUM AD4	RJE

DESIGNED BY	J. CAFFEY
DRAWN BY	R. ELLIS
CHECKED BY	J. CAFFEY
REVIEWED BY	T. NOACK

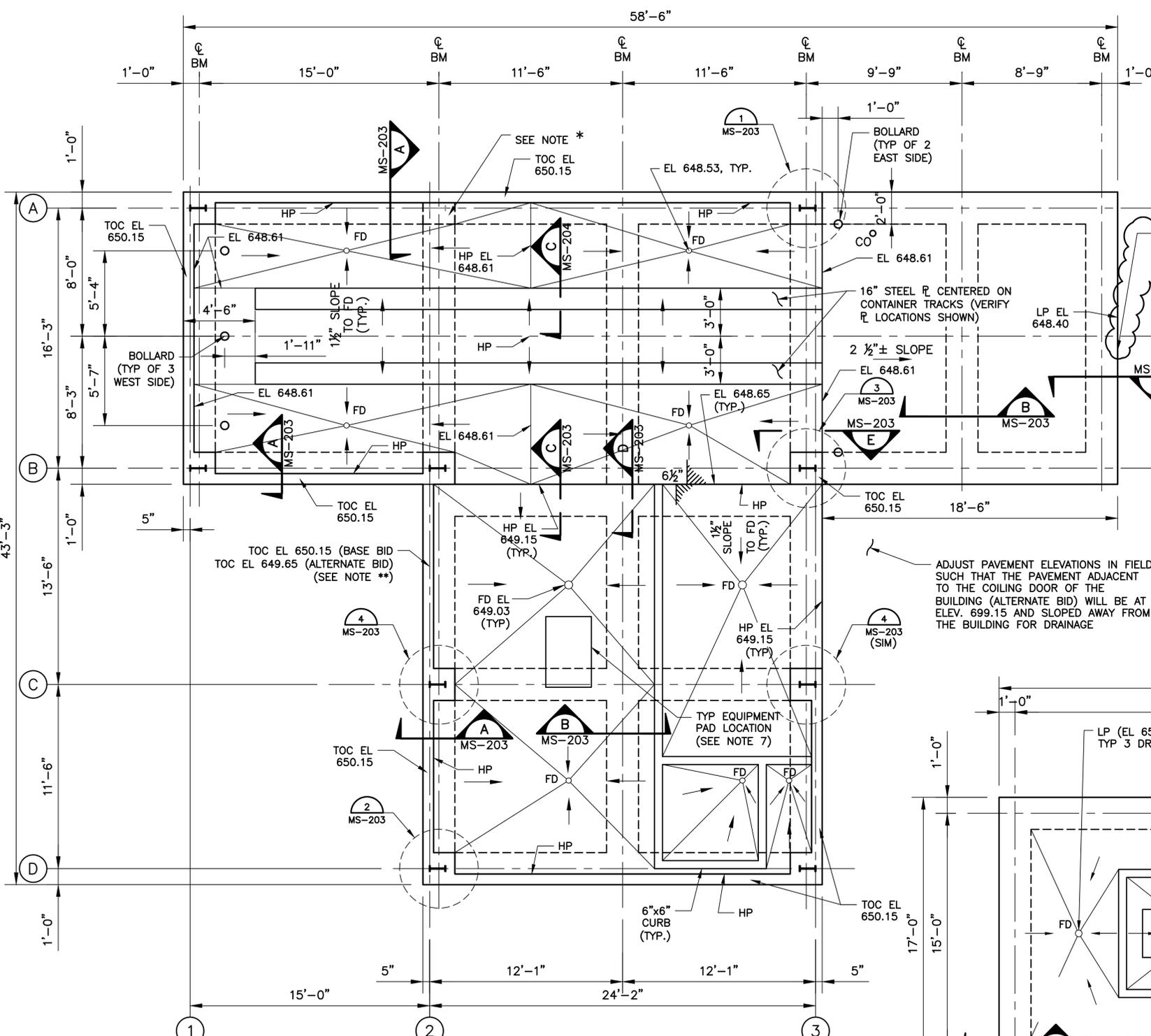


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 1349 EMPIRE CENTRAL DRIVE, SUITE 1000
 DALLAS, TEXAS 75247-4066
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CITY OF CELINA, TEXAS
 CELINA WASTEWATER TREATMENT PLANT
 SLUDGE DEWATERING IMPROVEMENTS

MECHANICAL
ROTARY FAN PRESS AND
CONVEYOR DETAILS

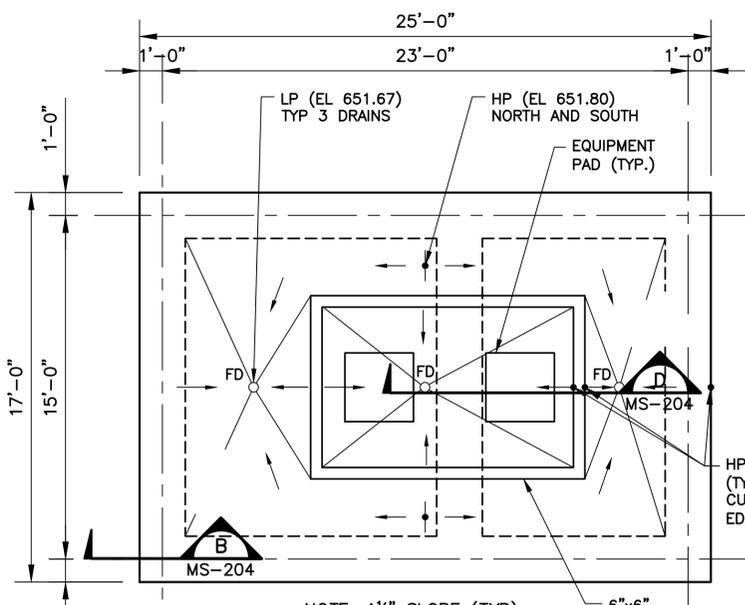
REFERENCES: Celina-TLBUK.dwg 0856-003-01 - Celina WWTP Dewatering Improvements XRef to Essoyon
 Feb 26, 2015 - 11:16am \\dai.dalapl\share\Projects\0856\003-01\ADDENDA\ADDENDUM_NO_4\Acad\MS-201 STRUCTURAL PLANS.dwg LAYOUT: STRUCTURAL PLANS USER:



* INSTALL 2'x2' CONCRETE PILASTERS TO SUPPORT ADDITIONAL STEEL COLUMNS NOT SHOWN ON THE PLAN IF THESE ADDITIONAL COLUMNS ARE REQUIRED BY THE DESIGN OF THE PRE-ENGINEERED METAL BUILDING. THE PILASTER/COLUMN SHALL BE LOCATED WHERE THEY WILL NOT INTERFERE WITH THE EQUIPMENT OR TRUCKS OPERATION.

** FOR ALTERNATE BID, INCREASE CURB WIDTH IF NEEDED FOR INSTALLATION OF COILING DOOR. COILING DOOR SHALL BE INSTALLED ON TOP OF THE CURB.

ROTARY FAN PRESS AND CONVEYOR PLAN
 SCALE 1/4" = 1'-0"

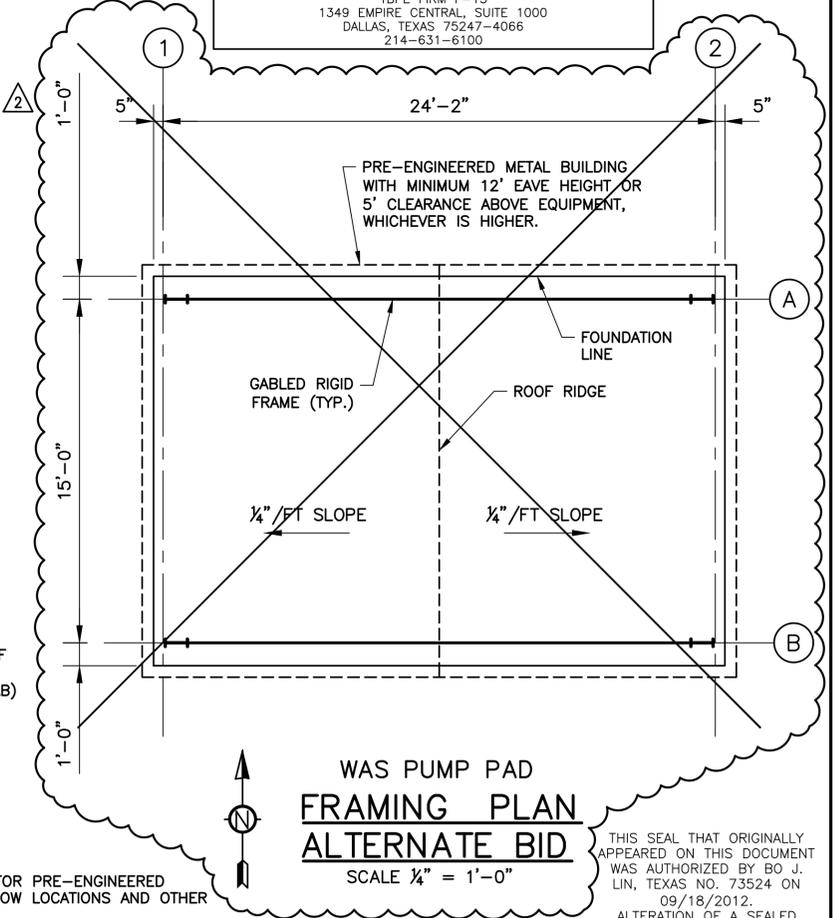


WAS PUMP PAD PLAN
 SCALE 1/4" = 1'-0"

NOTES:
 1. REFER TO MECHANICAL SHEETS FOR PRE-ENGINEERED METAL BUILDING DOOR AND WINDOW LOCATIONS AND OTHER ITEMS NOT SHOWN.
 2. REFER TO SHEET MS-202 FOR PRE-ENGINEERED METAL BUILDING NOTES.

- NOTES:
- REFER TO THE GENERAL STRUCTURAL NOTES AND SPECIFICATIONS FOR ADDITIONAL CONSTRUCTION REQUIREMENTS.
 - REMOVE 6" OF THE EXISTING SOIL BELOW STRUCTURAL SLABS AND REPLACE WITH SELECT FILL. REMOVE AND REPLACE ANY MATERIAL IN THE EXPOSED SUB-GRADE THAT CONTAINS SOFT OR UNSUITABLE MATERIAL WITH SELECT FILL AT NO ADDITIONAL COST TO THE OWNER. PRIOR TO THE PLACEMENT OF SELECT FILL SOILS, A MINIMUM DEPTH OF 6" OF THE EXPOSED SURFACE SHALL BE SCARIFIED, WATERED AS REQUIRED AND COMPACTED TO BETWEEN 95 AND 100 PERCENT OF MAXIMUM DRY DENSITY PER ASTM D-698 WITH MOISTURE CONTENT BETWEEN OPTIMUM AND 4 POINTS ABOVE OPTIMUM.
 - THE SELECT FILL SHALL BE PLACED IN MAXIMUM LOOSE LIFTS OF 6 TO 8 INCHES AND COMPACTED TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698 AT MOISTURE CONTENT BETWEEN THE OPTIMUM MOISTURE AND THREE (3) PERCENTAGE POINTS ABOVE OPTIMUM.
 - A PROFESSIONAL GEOTECHNICAL ENGINEER'S SERVICE SHALL BE RETAINED TO OBSERVE EARTHWORK AND PERFORM MATERIALS EVALUATION AND TESTING.
 - UNLESS OTHERWISE NOTED, PROVIDE 1 1/2" SLOPES TOWARD THE FLOOR DRAINS AS INDICATED ON THE PLANS.
 - UNLESS OTHERWISE NOTED, TOP MAT REINFORCING OF FLOOR SLAB MAY BE PLACED PARALLEL TO BOTTOM MAT REINFORCING WITH 1 1/2" CONCRETE COVER AT LOW POINTS OF THE FLOOR SLAB.
 - ALL EQUIPMENT SHALL BE INSTALLED ON CONCRETE EQUIPMENT PADS. REFER TO OTHER DISCIPLINE DRAWINGS FOR EQUIPMENT PADS NOT SHOWN. ALL EQUIPMENT PADS SHALL BE 6" HIGH. SEE STANDARD DETAIL 502 ON SHEET MS-205 FOR TYPICAL EQUIPMENT PAD DETAIL. COORDINATE WITH APPLICABLE EQUIPMENT MANUFACTURERS FOR HORIZONTAL DIMENSIONS AND EXACT LOCATIONS.
 - SEE OTHER DISCIPLINES DRAWINGS FOR ITEMS NOT SHOWN ON THE PLAN.
 - DRAIN PIPES MAY PENETRATE GRADE BEAMS WITH THE FLOW LINE OF DRAIN PIPES AT A MINIMUM OF 7" ABOVE THE BOTTOM OF GRADE BEAMS.
 - LEGEND:
 HP = HIGH POINT
 FD = FLOOR DRAIN
 LP = LOW POINT
 TOC = TOP OF CONCRETE
 CJ = CONSTRUCTION JOINT

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WAS PUMP PAD FRAMING PLAN ALTERNATE BID
 SCALE 1/4" = 1'-0"

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3	10/12	NOT IN THIS CONTRACT	FJC
4	9/12	REPLACED SHEET PER ADDENDUM AD4	RJE

DESIGNED BY	B. LIN
DRAWN BY	R. LEAR
CHECKED BY	B. LIN
REVIEWED BY	T. NOACK

FJC	DESIGNED BY	B. LIN
FJC	DRAWN BY	R. LEAR
FJC	CHECKED BY	B. LIN
RJE	REVIEWED BY	T. NOACK

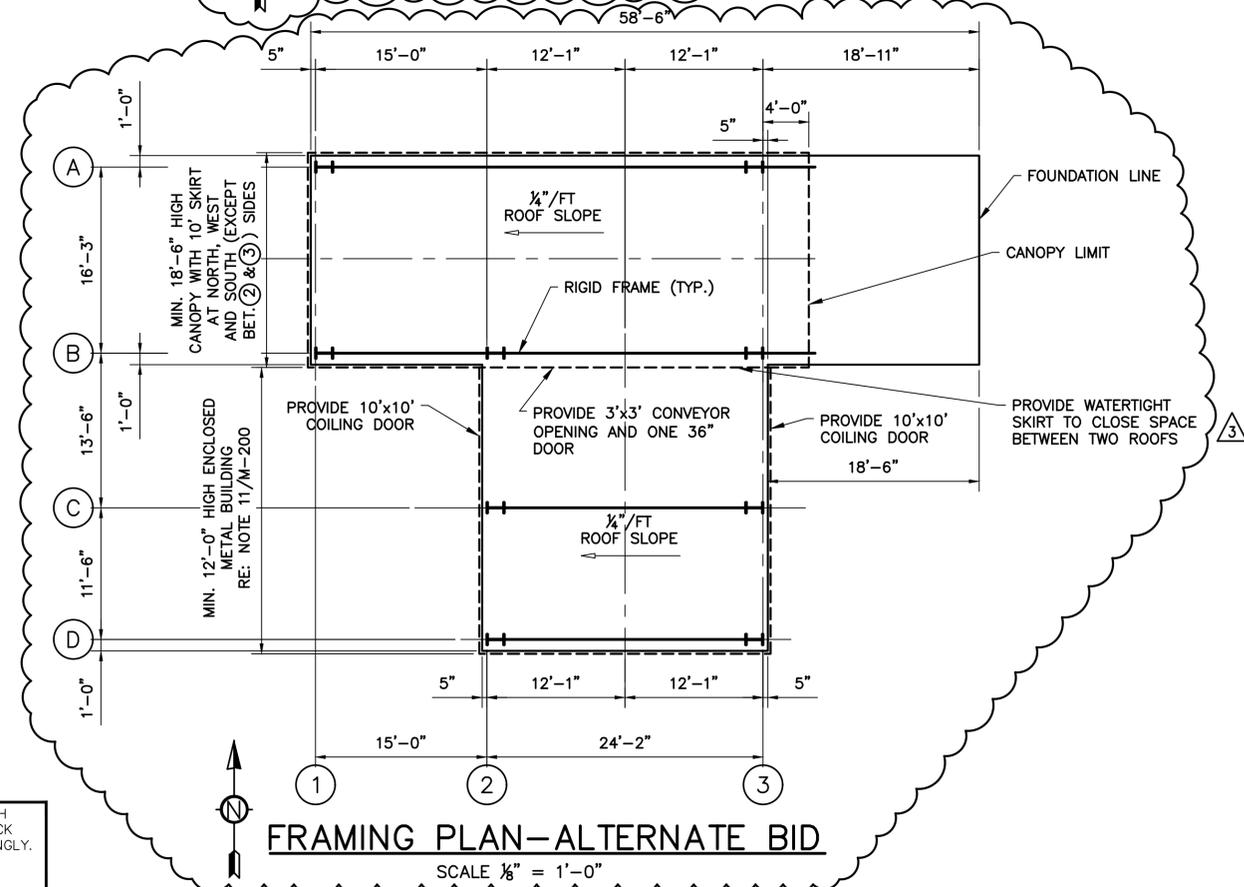
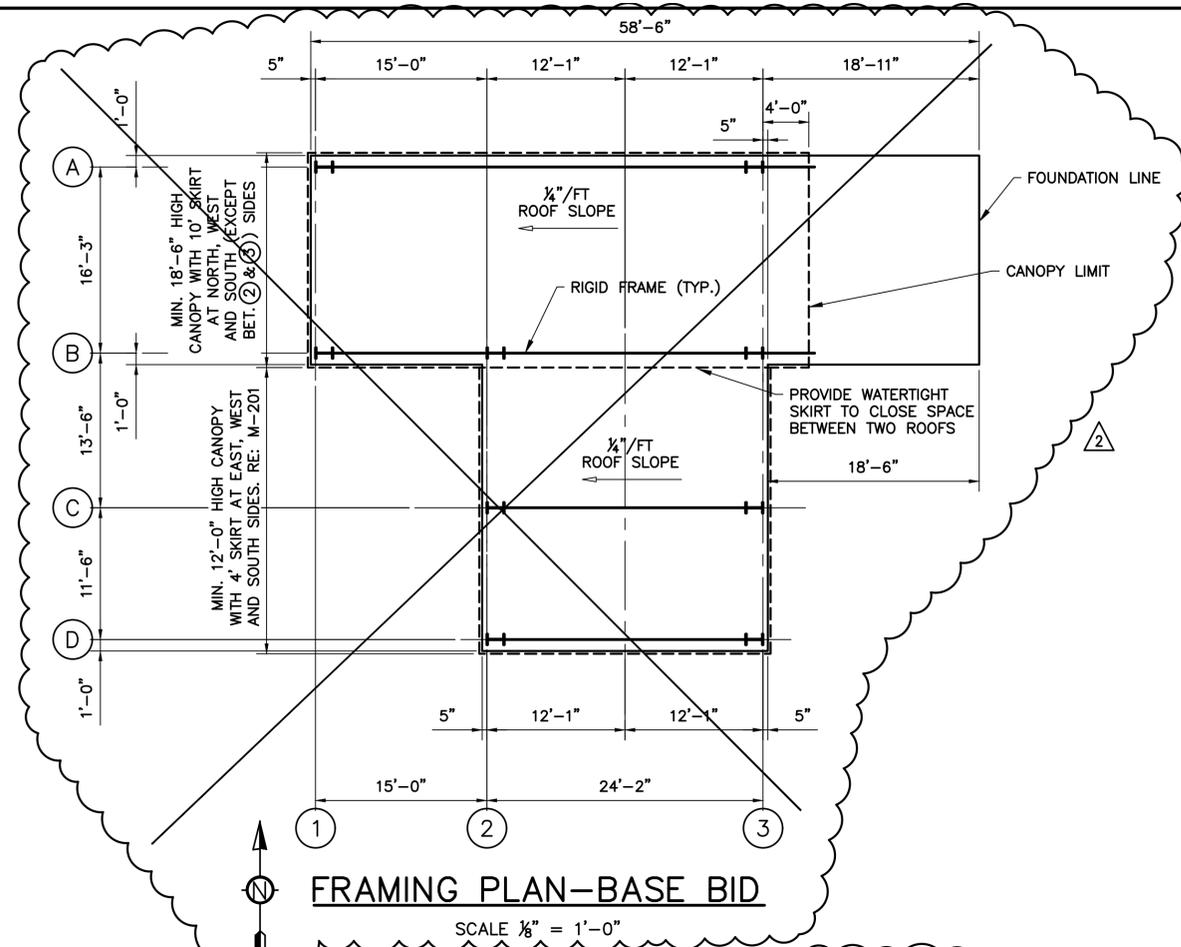
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 1349 EMPIRE CENTRAL DRIVE, SUITE 1000
 DALLAS, TEXAS 75247-4066
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CITY OF CELINA, TEXAS
 CELINA WASTEWATER TREATMENT PLANT
 SLUDGE DEWATERING IMPROVEMENTS

MECHANICAL/STRUCTURAL
 STRUCTURAL PLANS

Seq. 19 of 43
 Dwg. No. MS-201
 0856-003-01



PRE-ENGINEERED METAL CANOPY/BUILDING NOTES:

1. THE NEW CANOPY/BUILDING SHALL BE A MANUFACTURER'S STANDARD OR CUSTOM DESIGNED PRE-ENGINEERED METAL STRUCTURE. RIGID FRAMES SHALL BE SPACED AS SHOWN ON THE DRAWINGS. THE CONSTRUCTION DETAILS MAY VARY TO SUIT MANUFACTURER'S STANDARD DESIGN.
2. THE CANOPY/BUILDING SHALL BE DESIGNED AND FABRICATED ACCORDING TO AISC, MBMA AND AISI LATEST SPECIFICATIONS WHICHEVER IS MORE RESTRICTIVE. THE DIMENSIONAL TOLERANCES OUTLINED IN THE AWS CODE UNDER WORKMANSHIP AND THE TOLERANCES APPLICABLE TO ROLL STEEL UNDER THE AISI "STANDARD MILL PRACTICE", SECTION SHALL BE REQUIRED IN THE FABRICATION OF THE STEEL BUILDING FRAMES.
3. PROVIDE SINGLE-SPAN RIGID FRAMES WITH PINNED COLUMN BASES FOR INTERIOR FRAMES. MULTIPLE-SPAN FRAMES WITH PINNED COLUMN BASES MAY BE USED FOR END FRAMES. COLUMN BASES SHALL NOT TRANSFER MOMENTS TO FOUNDATIONS.
4. DESIGN, FABRICATION AND CONSTRUCTION SHALL INCLUDE STRUCTURAL STEEL FRAMING, SUPPORTS, BRACING AND ACCESSORIES FOR ROOFTOP HVAC UNITS, EXHAUST SYSTEM, PIPING, PROCESS EQUIPMENT AND OTHER SUCH DEVICES SHOWN ON THE PLANS AND AS SPECIFIED.
5. ALL STEEL MEMBERS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION TO CONFORM TO ASTM A123.
6. THE BUILDING FRAME SHALL BE DESIGNED TO LIMIT THE LATERAL DEFLECTION TO H/400 DUE TO ANY DESIGN LOAD COMBINATIONS AT THE BUILDING EAVE, WHERE H IS THE HEIGHT OF THE BUILDING EAVE.
7. LIMIT THE MAXIMUM COMBINED VERTICAL DEFLECTION OF PURLINS AND FRAMES TO L/240 UNDER DESIGN SNOW OR LIVE LOADS, WHERE L IS THE SPAN LENGTH OF THE MEMBER BETWEEN CENTERLINE OF THE SUPPORTS.
8. FOR BUILDINGS WITH METAL SIDING, LIMIT THE MAXIMUM HORIZONTAL DEFLECTION OF GIRTS TO L/240 UNDER DESIGN WIND LOADS, WHERE L IS THE SPAN LENGTH OF THE MEMBER BETWEEN CENTERLINE OF THE SUPPORTS.
9. BUILDING SHALL BE DESIGNED TO INCLUDE LOADS INDUCED BY THE HVAC, MECHANICAL, PROCESS EQUIPMENT, PIPING, EXHAUST SYSTEM, AND OTHER SUCH DEVICES SHOWN ON THE PLANS AND AS SPECIFIED. INFORMATION OF SUCH EQUIPMENT OR DEVICES SHALL BE PROVIDED BY THE CONTRACTOR TO THE BUILDING MANUFACTURER FOR THE BUILDING DESIGN.
10. PROVIDE PURLIN BRACING AT INTERVALS NOT EXCEEDING 1/4 SPAN. PROVIDE ANTIROLL CLIPS AT ALL PURLIN BEARING POINTS.
11. USE RODS, NOT CABLES, FOR WALL AND ROOF BRACING. PROVIDE BACKUP PLATES (MIN. 6" WIDE X 1/2" THICK) BEHIND ALL BRACE ROD CONNECTIONS TO FRAME WEBS. WELD PLATES TO FRAME FLANGES.
12. LATERAL SUPPORTS SHALL BE PROVIDED BY RIGID FRAMES OR DIAGONAL BRACING. WALL AND ROOF PANELS SHALL NOT BE USE TO RESIST IN-PLANE SHEAR FORCES.
13. PERMANENT BUILDING BRACING MAY BE INSUFFICIENT DURING ERECTION. DESIGN AND PROVIDE TEMPORARY LATERAL BRACING DURING CONSTRUCTION UNTIL PERMANENT BRACING IS INSTALLED IN PLACE.
14. ANCHOR RODS SHALL BE ASTM F1554, GRADE 36 ANCHOR RODS. PROVIDE MINIMUM FOUR (4) ANCHOR RODS FOR EACH COLUMN. THE MINIMUM ANCHOR ROD SIZE IS 3/4" IN DIAMETER.
15. COLUMN AND BASE PLATE SIZE SHALL ALLOW FOR A MINIMUM ANCHOR BOLT EDGE DISTANCE OF 8" TO ANY VERTICAL EDGE OF CONCRETE. UNLESS OTHERWISE INDICATED ON THE PLANS, THE MINIMUM ANCHOR ROD EMBEDMENT DEPTH IS 2'-0".
16. ANCHOR RODS SHALL BE DESIGNED BY THE BUILDING MANUFACTURER AND FURNISHED BY THE CONTRACTOR. THE ANCHOR BOLT SIZES, PATTERN AND FOUNDATION LOADS SHALL BE INCLUDED IN THE SHOP DRAWINGS SUBMITTAL.
17. REFER TO SECTION 13125 OF THE PROJECT SPECIFICATION - METAL BUILDING SYSTEMS FOR OTHER DESIGN AND CONSTRUCTION REQUIREMENTS.
18. SEE MECH. DRAWING FOR BUILDING LAYOUT. REFER TO OTHER DISCIPLINES DRAWINGS FOR ITEMS NOT SHOWN ON THE PLAN.

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REFERENCES: Celina-TLBUK.dwg 0856-003-01- Celina WWTIP Dewatering Improvements XRef to Essoyon
 Feb 26, 2015 - 11:19am \\dell.dalapl\share\Projects\0856\003-01\ADDENDA\ADDENDUM_NO.4\Acco\MS-202 FRAMING PLAN.dwg LAYOUT: FRAMING PLAN USER:

BAR IS ONE INCH IN LENGTH ON ORIGINAL DRAWING. CHECK SCALE AND ADJUST ACCORDINGLY.
 ONE INCH

NO.	DATE	REVISION
1	01/15	ISSUED FOR RECORD
2	02/14	PER CHANGE ORDER CO-004
3	11/12	PER CHANGE ORDER CO-001
4	9/12	ADDED SHEET PER ADDENDUM AD4

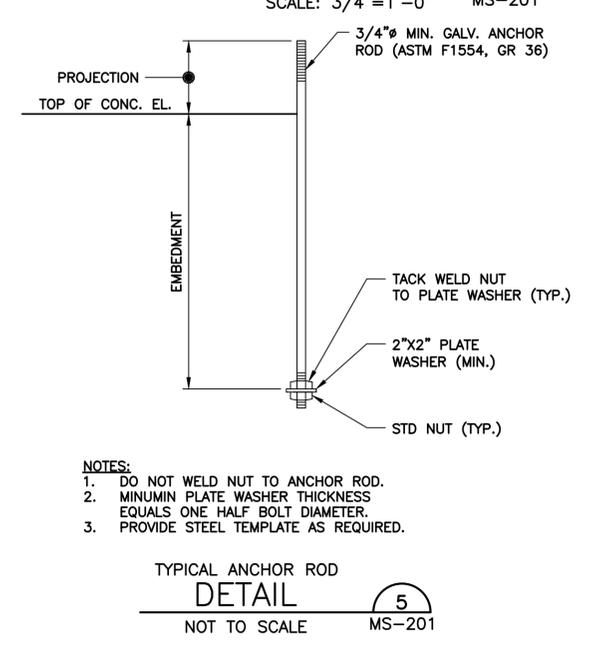
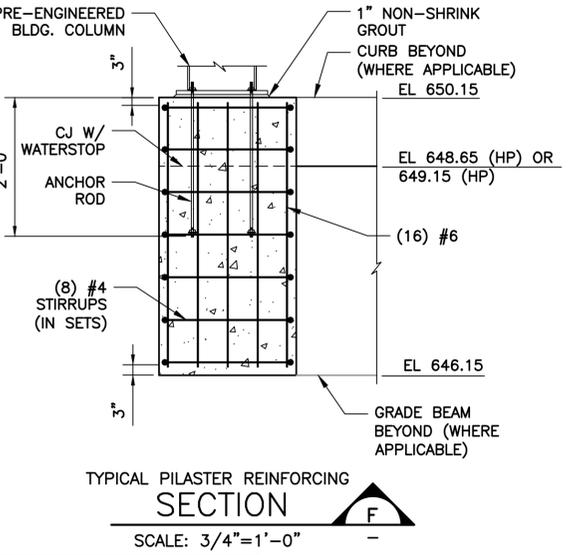
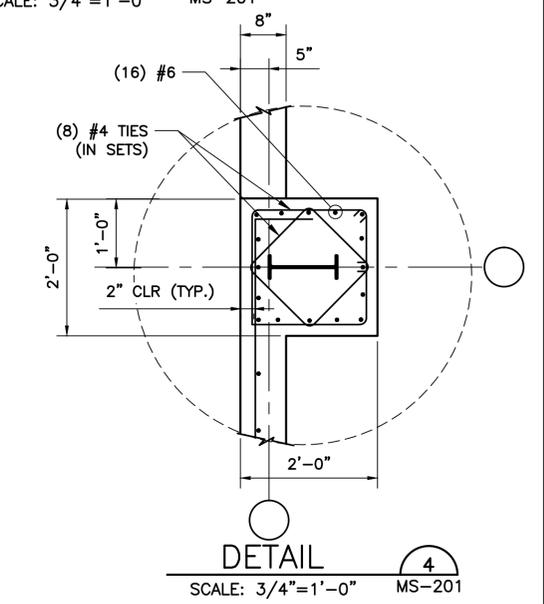
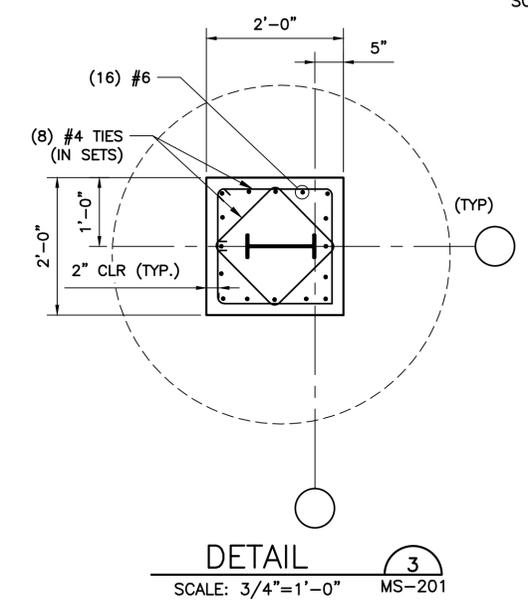
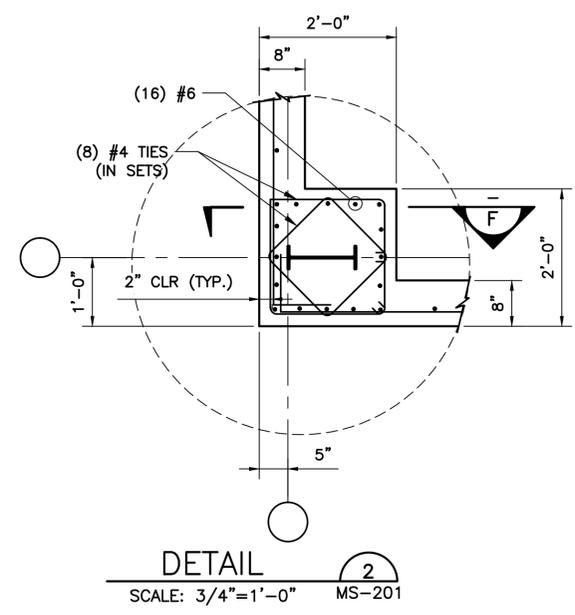
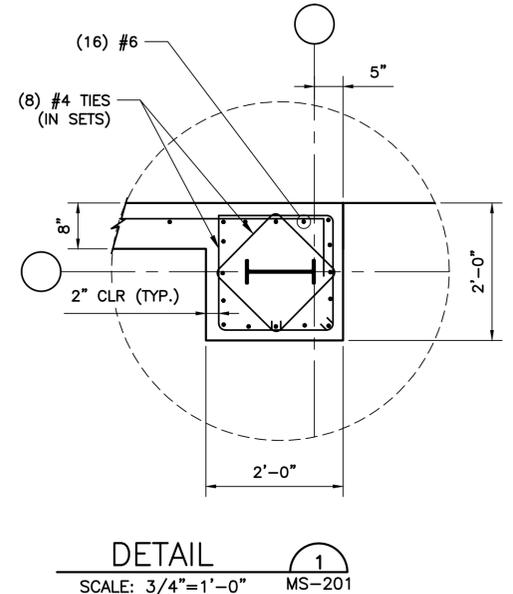
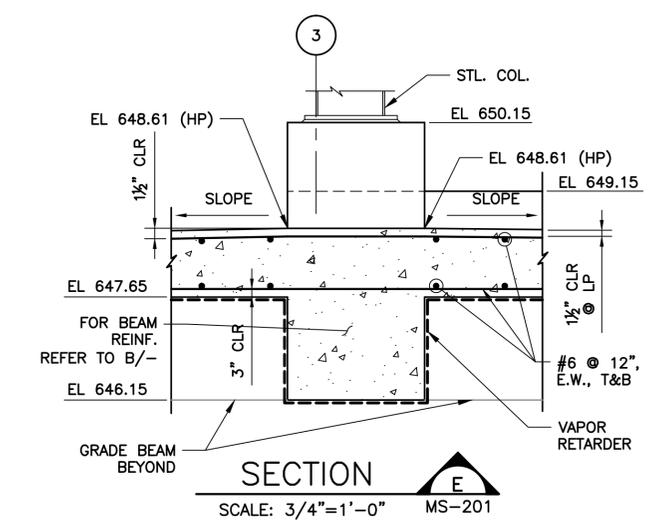
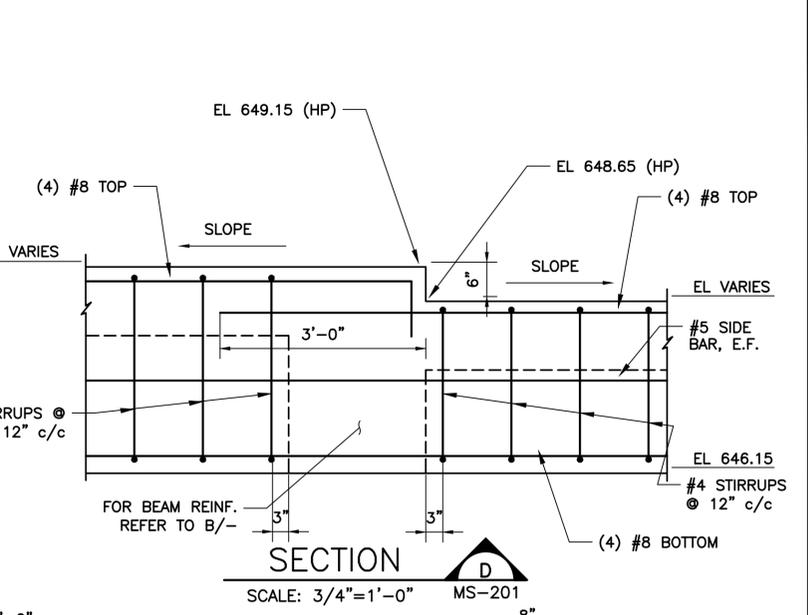
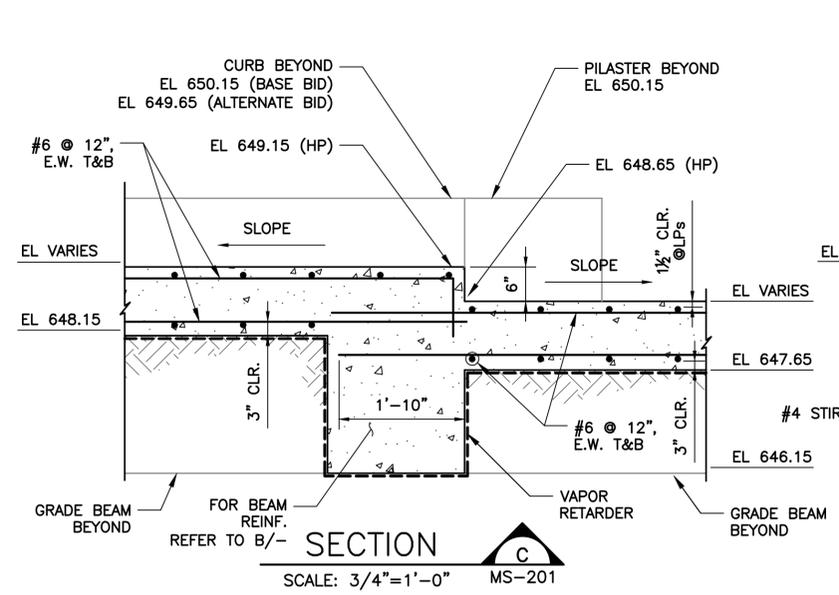
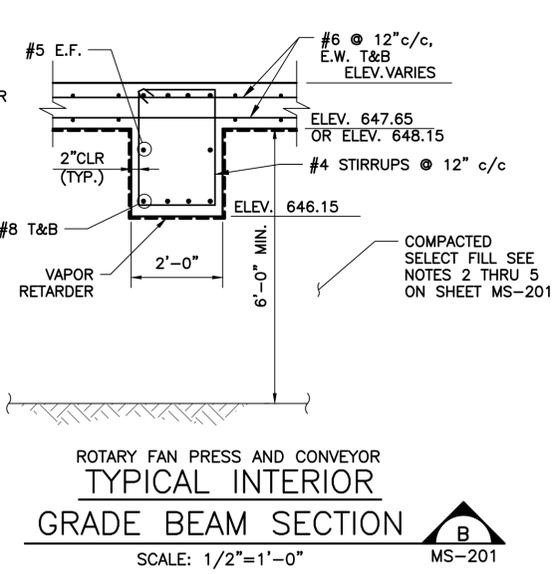
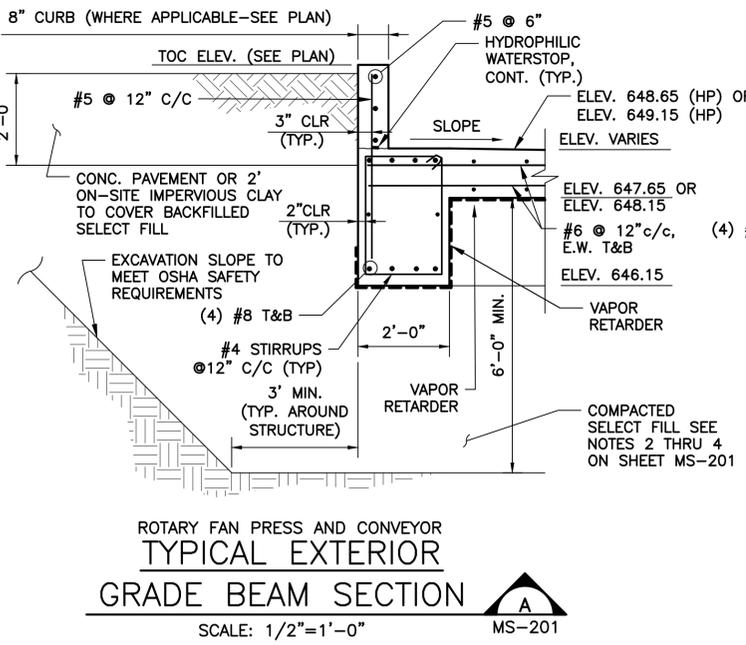
FJC	DESIGNED BY	B. LIN
FJC	DRAWN BY	R. LEAR
FJC	CHECKED BY	B. LIN
RJE	REVIEWED BY	T. NOACK
BY		

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 ENVIRONMENTAL ENGINEERS AND SCIENTISTS

ALAN PLUMMER ASSOCIATES, INC.
 1349 EMPIRE CENTRAL DRIVE, SUITE 1000
 DALLAS, TEXAS 75247-4066
 PHONE: 214-631-6100 FAX: 214-631-6109
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CITY OF CELINA, TEXAS
 CELINA WASTEWATER TREATMENT PLANT
 SLUDGE DEWATERING IMPROVEMENTS

MECHANICAL/STRUCTURAL
 FRAMING PLAN



- NOTES:**
- DO NOT WELD NUT TO ANCHOR ROD.
 - MINIMUM PLATE WASHER THICKNESS EQUALS ONE HALF BOLT DIAMETER.
 - PROVIDE STEEL TEMPLATE AS REQUIRED.

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REFERENCES: C:\Users\TJL\Documents\Projects\MS-203 STRUCTURAL DETAILS.dwg LAYOUT: STRUCTURAL DETAILS USER: Feb 26, 2015

BAR IS ONE INCH IN LENGTH ON ORIGINAL DRAWING. CHECK SCALE AND ADJUST ACCORDINGLY.

DESIGNED BY	B. LIN
DRAWN BY	R. LEAR
CHECKED BY	B. LIN
REVIEWED BY	T. NOACK

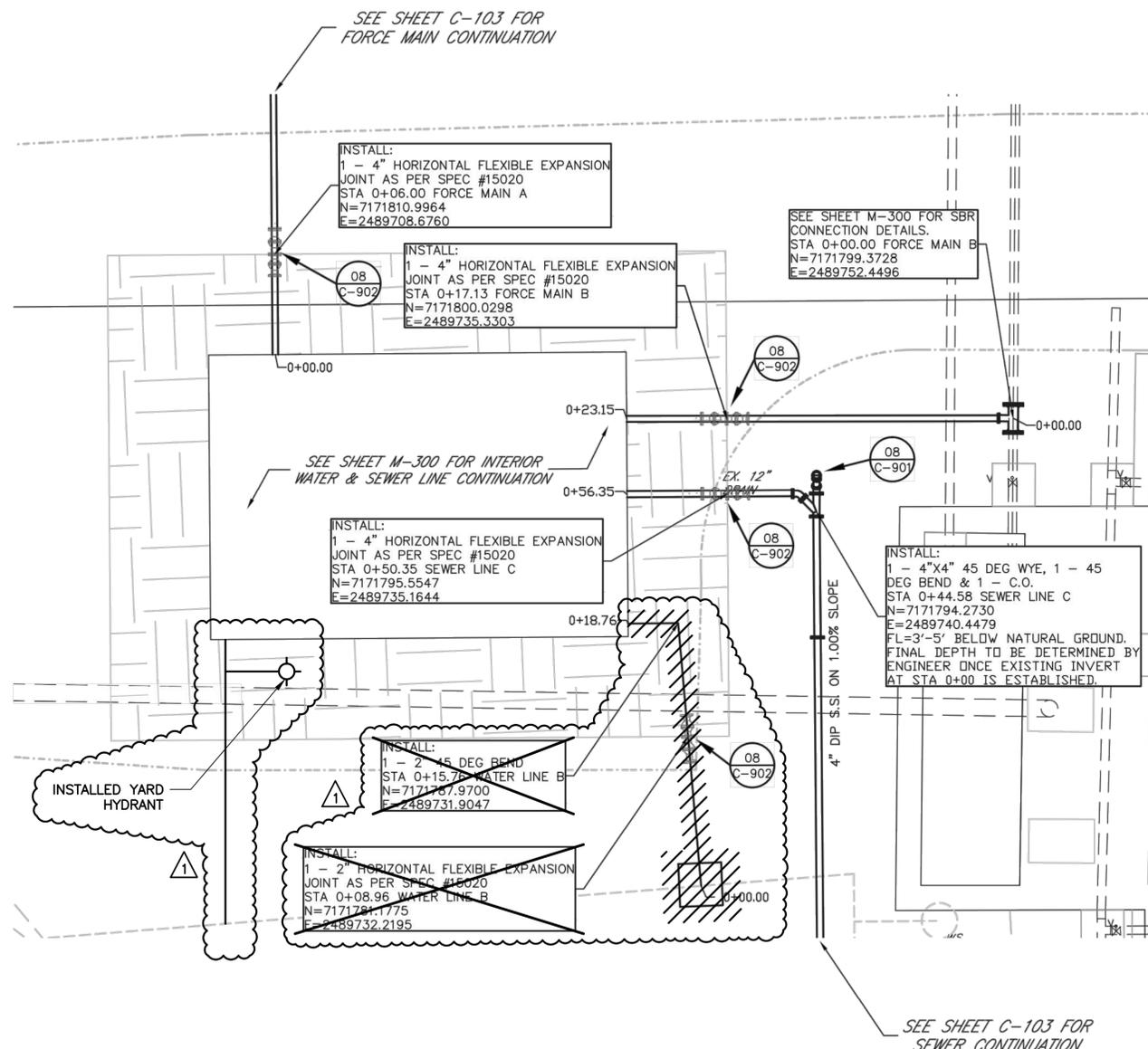
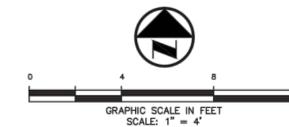
ISSUED FOR RECORD	FJC
REPLACED SHEET PER ADDENDUM AD4	RJE
REVISION	BY



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CITY OF CELINA, TEXAS
CELINA WASTEWATER TREATMENT PLANT
SLUDGE DEWATERING IMPROVEMENTS

**MECHANICAL/STRUCTURAL
STRUCTURAL DETAILS**



NOTES:

- REFER TO SPECIFICATION SECTION FOR COORDINATION AND SCHEDULE REQUIREMENTS FOR DEMOLITION IN THIS AREA. SEQUENCE TO BE COORDINATED WITH THE OWNER.
- REMOVE AND DISPOSE OF MATERIAL AS PER OWNER'S PREFERENCE OFF SITE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL LAWS.
- DIMENSIONS, ELEVATIONS AND DETAILS OF EXISTING FACILITIES ARE BASED ON PREVIOUS CONSTRUCTION PLANS. THE OWNER AND/OR ENGINEER HAS NOT FIELD VERIFIED THE DIMENSIONS AND ELEVATIONS. THE ACCURACY AND COMPLETENESS OF THE INFORMATION SHOWN ON THIS DRAWING IS NOT GUARANTEED. SOME OF THE EXISTING EQUIPMENT INFORMATION HAVE BEEN OMITTED FOR CLARITY. ACTUAL DIMENSIONS, ELEVATIONS AND DETAILS WILL VARY. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING THE JOB TO DETERMINE THE EXTENT OF WORK AND THE DIFFICULTIES IN CONSTRUCTION OF THE NEW FACILITIES. THE CONTRACTOR SHALL FIELD VERIFY PRIOR TO FABRICATION AND CONSTRUCTION AND MAKE ANY NECESSARY ADJUSTMENTS AT NO ADDITIONAL COST AND EXTENSION OF THE CONTACT TIME TO THE OWNER.
- PROTECT EXISTING STRUCTURES, PIPING AND EQUIPMENT WHICH ARE TO REMAIN. REPLACE ITEMS DAMAGED BY CONSTRUCTION OR DEMOLITION AT NO COST TO OWNER. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL VIDEO TAPE AND TAKE PICTURES OF EXISTING FACILITIES.
- PAINT ALL NEW EQUIPMENT, PIPING, FITTINGS, VALVES AND SUPPORTS EXCEPT STAINLESS STEEL, ALUMINUM, AND FIBERGLASS IN ACCORDANCE WITH SPECIFICATION SECTION 09910. COLORS SHALL BE SELECTED BY OWNER.
- CONCRETE ENCASE ALL PIPE UNDER STRUCTURE TO MJ CONNECTION.
- INSULATE AND HEAT TRACE ALL EXPOSED PIPES.
- ALL NEW WATER AND POLYMER CONVEYING PIPES ARE TO BE INSTALLED ABOVE GROUND ON PIPE SUPPORTS. PIPE SUPPORT ELEVATIONS AND SPACING SHALL BE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND AT A MINIMUM OF ONE SUPPORT FOR EVERY 10 FEET OF PIPE INSTALLED.

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DALLAS, TEXAS 75247-4066
214-631-6100



Essayon Engineering & Dev., Inc.
1723 E. Southlake Blvd.
Suite 120
Southlake, Texas 76092
817-4684

(972) 790-0081 PHONE
(214) 257-8347 FAX
dmcswain@essayoneng.com

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ATTACHMENT 1-AD4

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USER: David

1/15	ISSUED FOR RECORD	FJC
01/15	PER CONTRACTOR AS-BUILTS	FJC
	REVISION	BY

DESIGNED BY JCK
DRAWN BY DGM
CHECKED BY DGM
REVIEWED BY RRS

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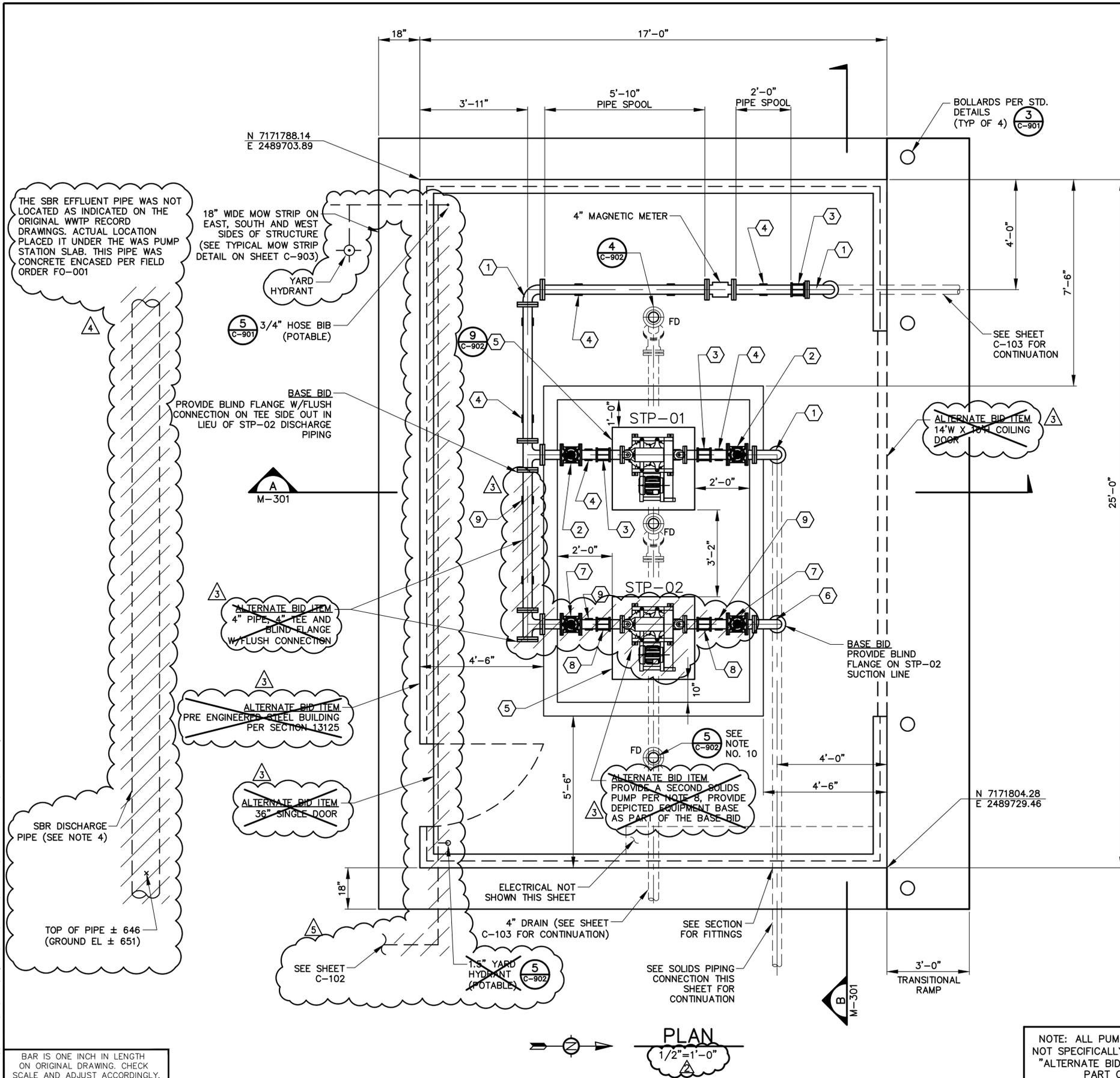
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CITY OF CELINA, TEXAS
CELINA WASTEWATER TREATMENT PLANT
SLUDGE DEWATERING IMPROVEMENTS

CIVIL
WAS PUMP STATION YARD PIPING PLAN

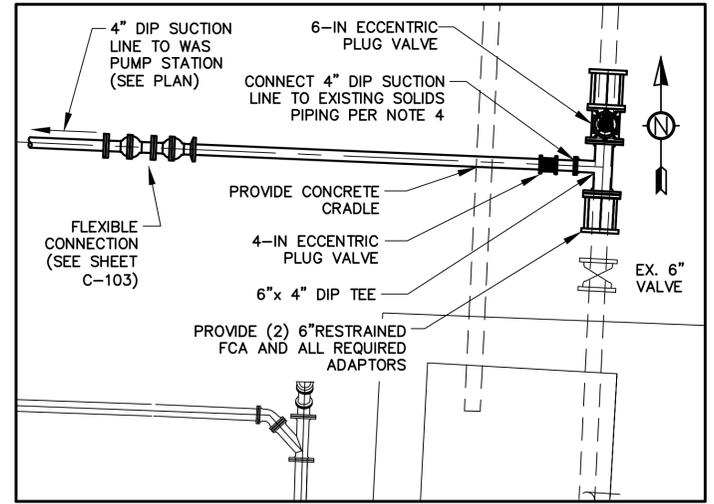
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Dwg. No. C-300
JOB NO: 0856-003-01

REFERENCES: Celina-111818.dwg, Celina_Base.dwg
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NOTES:

- ALTERNATE BID ITEM:** PROVIDE AN UNINSULATED PRE ENGINEERED STEEL BUILDING PER SECTION 13125. PROVIDE DOOR OPENINGS: ONE (1) 14'-W x 10'-H COILING DOOR WITH MANUAL (CHAIN OPERATED) OPENER, AND ONE (1) 36"-IN DOOR. INCLUDE ONE 24"-IN x 36"-IN NON-OPENING SAFETY GLASS WINDOW ON NORTH WALL, PLACE SILL 48"-IN ABOVE SLAB. THE ALTERNATE BID ITEMS SHALL INCLUDE BUILDING SIZED USING THE SLAB SIZE REQUIRED BY NOTE 6. PROVIDE MINIMUM CLEAR HEIGHT OF 9 FEET (TOP OF SLAB TO LOWEST ROOF BEAM OR SUPPORT) OR 5 FEET (TOP OF INSTALLED EQUIPMENT TO LOWEST ROOF BEAM OR SUPPORT) WHICHEVER IS HIGHER.
- ECCENTRIC PLUG VALVES SHALL BE INSTALLED SUCH THAT THE PLUG ROTATES ABOUT A HORIZONTAL AXIS AND THE PLUG PORT IS AT THE TOP OF THE VALVE CASING.
- PROVIDE ONE (1) 4" DIP TEE AND ALL NECESSARY ADAPTERS. PLACE ONE (1) 4" ECCENTRIC PLUG VALVE IN THE SECTION PIPING APPROXIMATELY 5 LF WEST OF THE SLAB. ROUTE THE SUCTION LINE 1" BELOW THE EXISTING SOLIDS LINE AND PROVIDE A CONCRETE COLLAR.
- THE CONTRACTOR SHALL LOCATE THE SBR DISCHARGE AND ANY OTHER YARD PIPING WITHIN 10 LF OF THE OUTSIDE EDGE OF THE SLAB WHETHER OR NOT SUCH PIPING IS SHOWN ON THE PLANS. PROTECT ALL YARD PIPING DURING CONSTRUCTION OF THE SLAB AND ALTERNATE BID BUILDING. THE POSITION OF THE SLAB MAY BE ADJUSTED TO THE WEST TO CLEAR EXISTING YARD PIPING IN THE AREA.
- SLOPE TO DRAIN 1/4" - 1/2"/LF FROM CURB BOTTOM ON ALL SIDES AND EQUIPMENT BASES.
- THE CONTRACTOR SHALL SIZE EQUIPMENT BASE 6"-IN LARGER THAN WIDTH OF PUMP (ON EACH SIDE) AND ±2"-IN LARGER THAN LENGTH (ON EACH END) INCLUDING DRIVE MOTOR. THE CONTRACTOR SHALL, IF NECESSARY, INCREASE THE SIZE OF THE SLAB TO PROVIDE THE MINIMUM CLEAR DIMENSIONS DEPICTED BETWEEN AND OUTSIDE OF THE PUMP BASES.
- PROVIDE A SECOND SOLIDS PUMP, DEPICTED SUCTION AND DISCHARGE PIPING, FLANGE COUPLING ADAPTERS AND ISOLATION VALVES IF AWARDED THE SPECIFIED ALTERNATE BID ITEM. THE BASE BID SHALL INCLUDE THE SECOND CAST CONCRETE PUMP BASE. THE DEPICTED 4"-IN CROSS FITTING WITH A BLIND FLANGE ON THE SOUTH BRANCH OUTLET AND BLIND FLANGE ON THE STP-02 SUCTION PIPING JUST ABOVE THE SLAB.
- PROVIDE UNIT HEATERS AND VENT FANS IN LIEU OF BASE BID HEAT TRACING AND INSULATION IF AWARDED ALTERNATE BID ITEM, PRE-ENGINEERED STEEL BUILDING. SEE ELECTRICAL PLANS AND SPECIFICATIONS.
- CONCRETE ENCASE ALL PIPING UNDER STRUCTURE FROM STRUCTURE TO MJ CONNECTIONS.
- INSTALL FLOOR DRAINS (TYP OF 3). REFER TO SHEET C-300 FOR DRAIN LINE ROUTING. PROVIDE FLEXIBLE CONNECTION FOR FLOOR DRAIN PIPING (NOT SHOWN) PER DETAIL.



SOLIDS PIPING CONNECTION DETAIL

N.T.S.

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NOTES BY SYMBOL:

- ① 90° LONG RADIUS BEND (BASE BID)
- ② 4" ECCENTRIC PLUG VALVE (BASE BID)
- ③ 4" RESTRAINED FCA (BASE BID)
- ④ PIPE SUPPORT, TYPICAL (BASE BID)
- ⑤ 3'-0"x3'-0" EQUIP PAD, TYP OF 2 (BASE BID)
- ⑥ 90° LONG RADIUS BEND (ALTERNATE BID)
- ⑦ 4" ECCENTRIC PLUG VALVE (ALTERNATE BID)
- ⑧ 4" RESTRAINED FCA (ALTERNATE BID)
- ⑨ PIPE SUPPORT, TYPICAL (ALTERNATE BID)

NOTE: ALL PUMP STATION IMPROVEMENTS NOT SPECIFICALLY LABELLED "BASE BID" OR "ALTERNATE BID" SHALL BE PROVIDED AS PART OF THE BASE BID.

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NO.	DATE	REVISION	BY
1/15		ISSUED FOR RECORD	FJC
1/15		ONE INCH PER CONTRACTOR AS-BUILT	FJC
04/13		PER FIELD ORDER FO-001	FJC
10/12		NOT IN THIS CONTRACT	FJC
9/25		REVISED PER ADDENDUM AD5	RJE
9/12		REPLACED SHEET PER ADDENDUM AD4	RJE

DESIGNED BY: TDM
 DRAWN BY: RJE
 CHECKED BY: TDM
 REVIEWED BY: TJN

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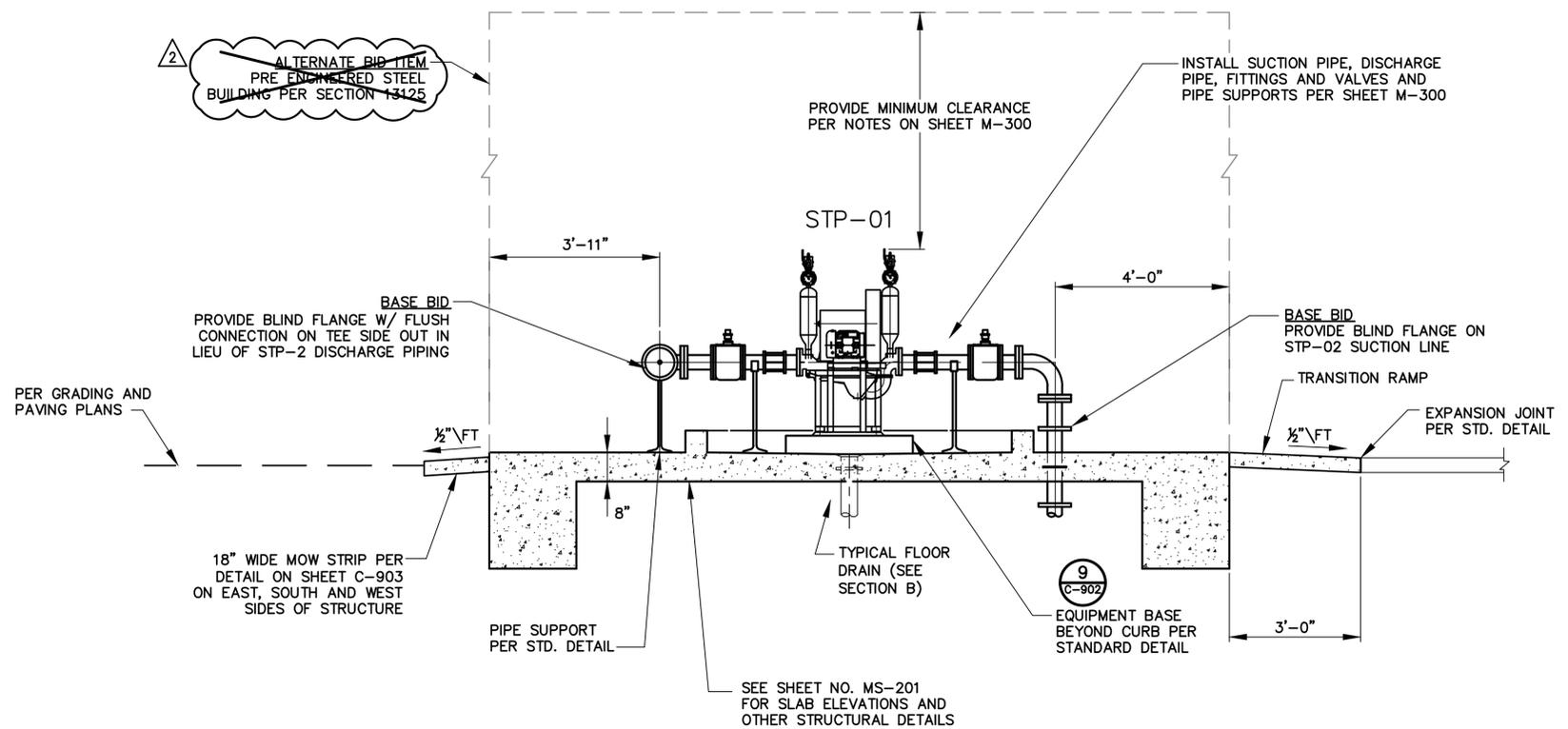
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CITY OF CELINA, TEXAS
 CELINA WASTEWATER TREATMENT PLANT
 SLUDGE DEWATERING IMPROVEMENTS

MECHANICAL
 WAS PUMP STATION PLAN

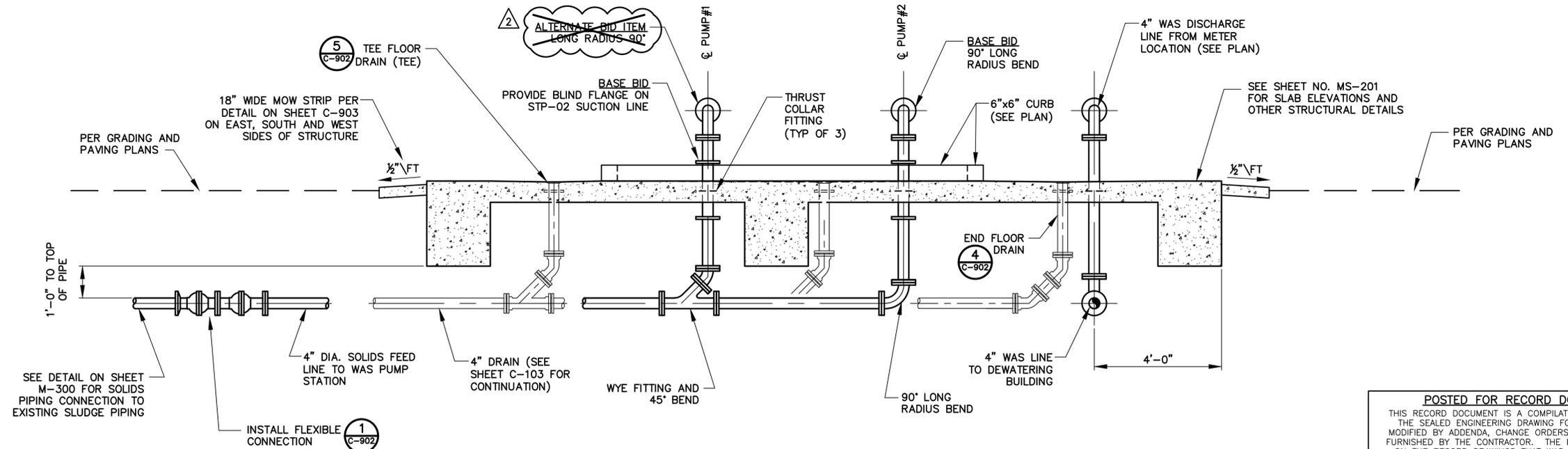
Seq. 25 of 43
 Dwg. No. M-300
 0856-003-01

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SECTION A
1/2" = 1'-0"

NOTE: ALL PUMP STATION IMPROVEMENTS NOT SPECIFICALLY LABELLED "BASE BID" OR "ALTERNATE BID" SHALL BE PROVIDED AS PART OF THE BASE BID.



SECTION B
1/2" = 1'-0"

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 ONE INCH

NO.	DATE	REVISION	BY
3	01/15	ISSUED FOR RECORD	FJC
2	10/12	NOT IN THIS CONTRACT	FJC
1	9/12	REPLACED SHEET PER ADDENDUM AD4	RJE

DESIGNED BY TDM
 DRAWN BY RJE
 CHECKED BY TDM
 REVIEWED BY TJN



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MECHANICAL
 WAS PUMP STATION SECTIONS

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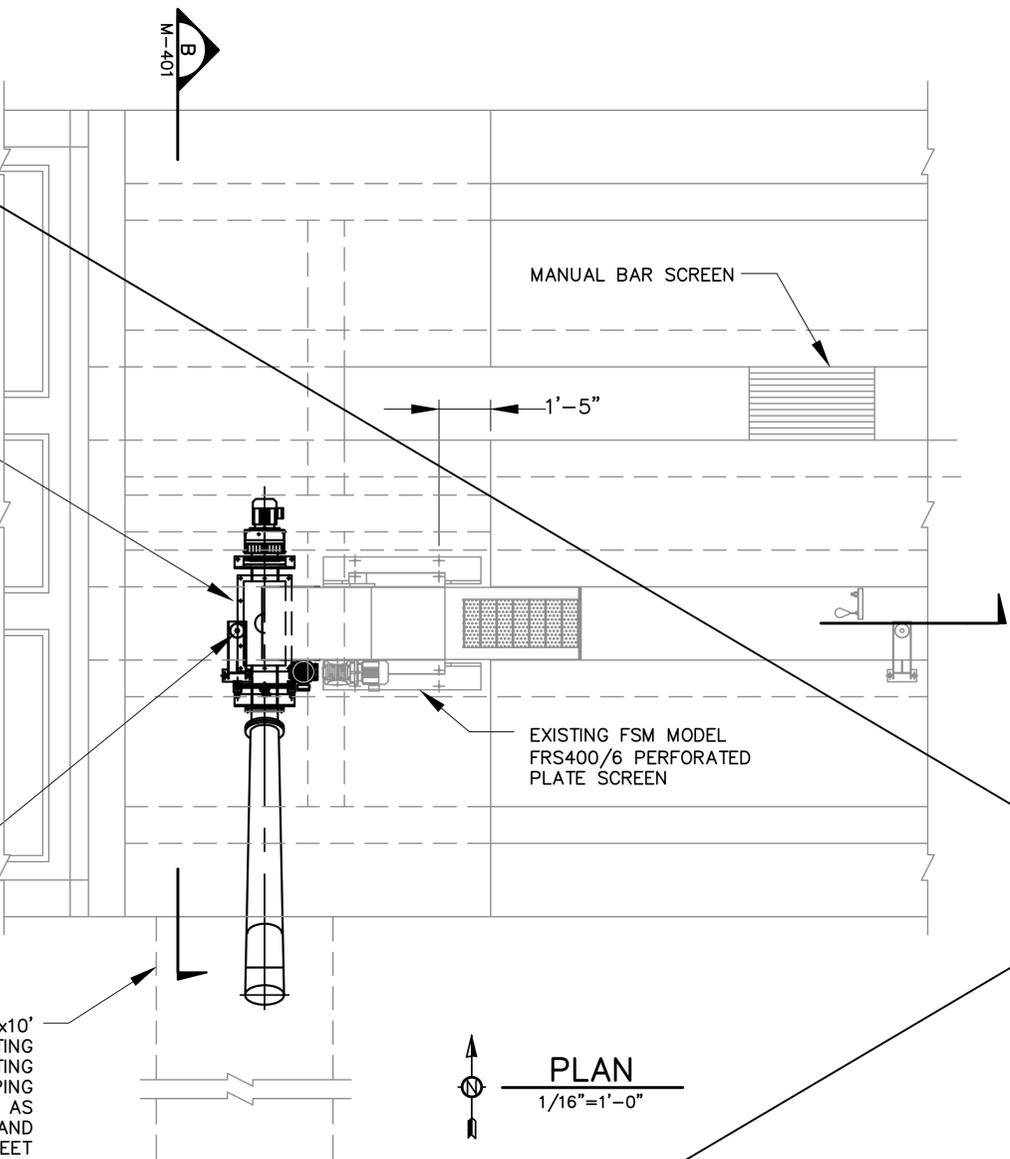
REFERENCES: Celina-TL1BLK
 Feb 26, 2015 - 11:26am
 \\del.dal.apa\share\Projects\0856\003-01\ADDENDA\ADDENDUM_NO_4\Acad\M-400.dwg LAYOUT: PLAN USER:

PROVIDE FLEXIBLE ELECTRICAL CONTROL, WASHER WATER AND DRAIN CONNECTION. SEE NOTES 1-3.

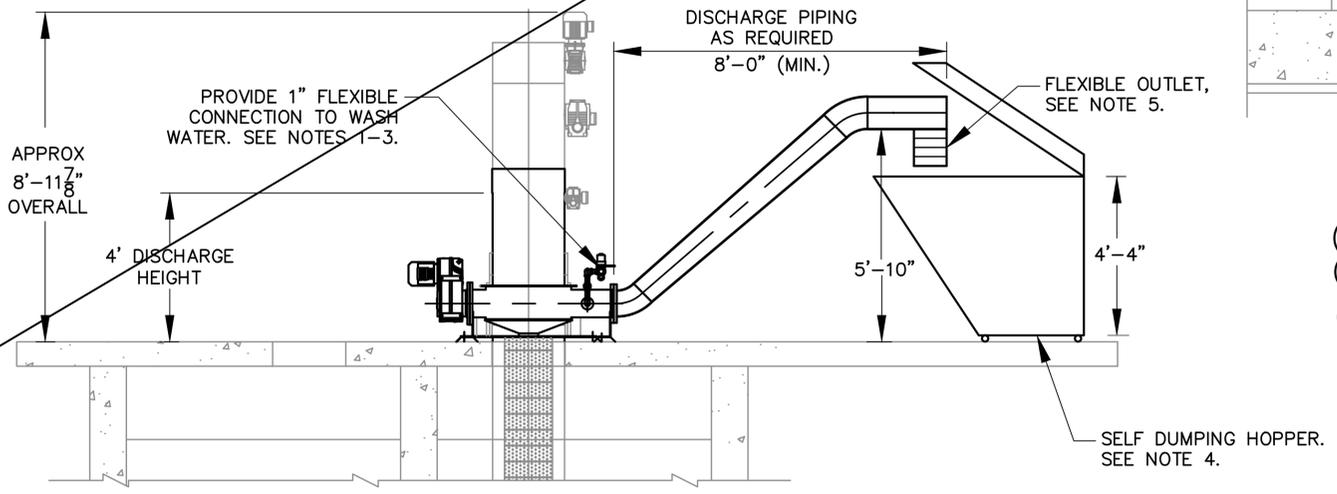


SCREENINGS WASHER/COMPACTOR/CONVEYOR SEE NOTE 1.

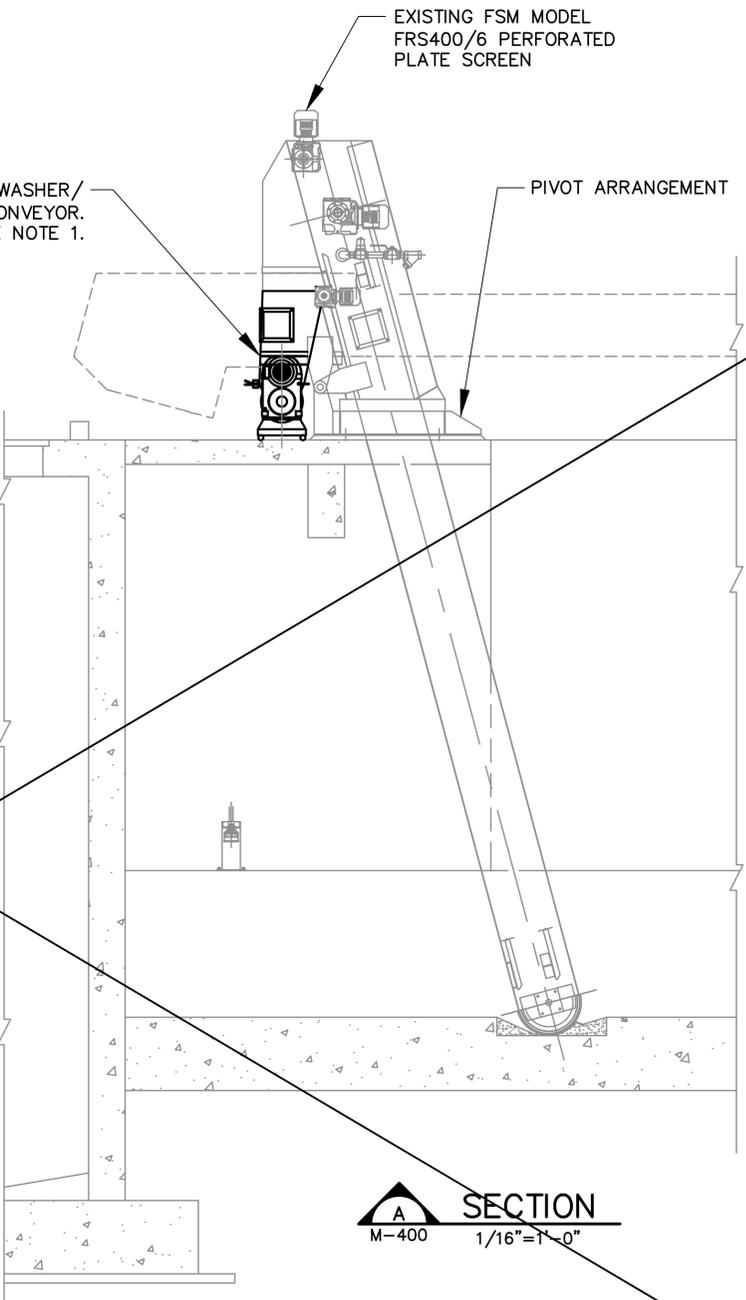
SAW CUT AND REMOVE A 5'x10' SECTION OF THE EXISTING CONCRETE TO LOCATE EXISTING POTABLE WATER SUPPLY PIPING AND INSTALL IMPROVEMENTS AS DETAILED IN NOTE 2 AND REPAIR PER DETAIL THIS SHEET



PLAN
1/16"=1'-0"

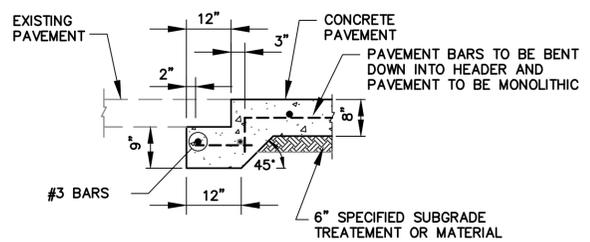


SECTION
M-400 1/16"=1'-0"



SECTION
M-400 1/16"=1'-0"

- NOTES:
1. PROVIDE AND INSTALL A SCREENINGS COMPACTOR, CONVEYOR, WASHER IN ACCORDANCE WITH SECTION 11080. THE UNIT SHALL BE PROVIDED COMPLETE AND IN PLACE WITH A MOBILE BASE. ELECTRICAL, CONTROL DRAIN AND WASHER WATER CONNECTIONS SHALL BE FLEXIBLE AND INCLUDE QUICK DISCONNECT FITTINGS TO ALLOW MOVEMENT OF THE UNIT WITHOUT TOOLS. WHEN IN POSITION TO WASH, COMPACT AND CONVEY SCREENINGS, THE UNIT SHALL SIT ON NON ROLLING RESTS.
 2. THE CONTRACTOR SHALL VISIT THE AREA PRIOR TO PREPARATION OF A BID AND DETERMINE THE REQUIRED WATER SUPPLY PIPING AND DRAIN PIPING TO POSITION THE UNIT AS INDICATED. SAW CUT EXISTING PAVING ADJACENT TO THE INFLUENT CHANNEL STRUCTURE AND EXPOSE SUFFICIENT WALL EXTERIOR TO CORE DRILL AND ROUTE WASH WATER SUPPLY PIPING UNDER THE EXISTING TOP SLAB TO WITHIN 3'-FT OF THE UNIT. CORE DRILL THE TOP SLAB TO ROUTE UNIT DRAINAGE INTO THE CHANNEL BEHIND THE BAR SCREEN. SIDE WALL IS 1'-FT THICK WITH DOUBLE MAT #7 BAR REINFORCEMENT, TOP SLAB IS 1'-FT THICK WITH DOUBLE MAT #6 BAR REINFORCEMENT. REPAIR PER HEADER DETAIL.
 3. THE CONTRACTOR SHALL ENSURE THE FLEXIBLE WASHER WATER CONNECTION PROVIDED IS OF SUFFICIENT LENGTH TO CONNECT TO THE EXISTING FSM BARSCREEN WASHER SPRAY SYSTEM. PROVIDE AN ISOLATION VALVE TO SHUT OFF WASH WATER FLOW. ALL PIPING SHALL BE PAINTED STEEL. PROVIDE HEAT TRACING OF ALL NON-FLEXIBLE PIPING AND ALL VALVES.
 4. PROVIDE A 2 C.Y. POWDER COATED STEEL SELF-DUMPING HOPPER WITH HINGED POLYETHYLENE LID COVER AND STEEL CASTER KIT. GRAINGER ITEM NO. 4ZD08, D0451 AND 4ZD13 OR APPROVED EQUAL. INCLUDE SHOP FABRICATED LID SUPPORTS TO ALLOW THE COVER TO BE SECURELY LOCKED PARTIALLY OPEN AS DEPICTED. ALL SUPPORT COMPONENTS SHALL BE POWDER COATED OR 316 SS. PROVIDE A STIFFENING FRAME FOR THE POLYETHYLENE LID IF NOT INCLUDED IN THE MANUFACTURER'S DESIGN. FABRICATE THE FRAME USING SHOP WELDED 316 SS FLAT STOCK (2"x1/2") AND SECURE THE FRAME TO THE LID USING 316 SS HARDWARE.
 5. CONTRACTOR SHALL PROVIDE A FLEXIBLE DOWN SPOUT EXTENSION AT THE END OF THE DISCHARGE PIPING. ATTACH THE EXTENSION TO THE DISCHARGE PIPING PER MANUFACTURER'S RECOMMENDATION. THE DIAMETER OF THE FLEXIBLE EXTENSION SHALL MATCH THAT OF THE DISCHARGE PIPING. THE FLEXIBLE DOWN SPOUT SHALL NOT EXTEND FURTHER THAN 6-INCHES BELOW THE TOP OF THE SELF DUMPING HOPPER AND SHALL BE ULTRAVIOLET RESISTANT.



CONCRETE REPAIR HEADER
N.T.S.

NOTE: EXISTING PAVEMENT IS 8" THICK WITH NO. 3 BARS @ 18" O.C.E.W. PROVIDE REPLACEMENT CONCRETE TO MATCH EXISTING FORM REPAIR HEADER AT SAW CUT EDGES (EAST, NORTH AND WEST SIDES) DEPICTED.

NOTE: ALL ITEMS DEPICTED ON THIS SHEET ARE TO BE CONSTRUCTED AND/OR SUPPLIED ONLY IF ALTERNATE BID ITEM IS AWARDED.

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NO.	DATE	REVISION
1	01/15	ISSUED FOR RECORD
2	10/12	NOT IN THIS CONTRACT
3	9/25	REPLACED SHEET PER ADDENDUM AD5
4	9/12	REPLACED SHEET PER ADDENDUM AD4

FJC	DESIGNED BY	RRS
FJC	DRAWN BY	HLT
RJE	CHECKED BY	RRS
RJE	REVIEWED BY	TJN
BY		

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 DALLAS, TEXAS 75247-4066
 PHONE: 214-631-6100 FAX: 214-631-6109
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CITY OF CELINA, TEXAS
 CELINA WASTEWATER TREATMENT PLANT
 SLUDGE DEWATERING IMPROVEMENTS

MECHANICAL
 SCREENINGS COMPACTOR/CONVEYOR/WASHER
 PLAN AND SECTION

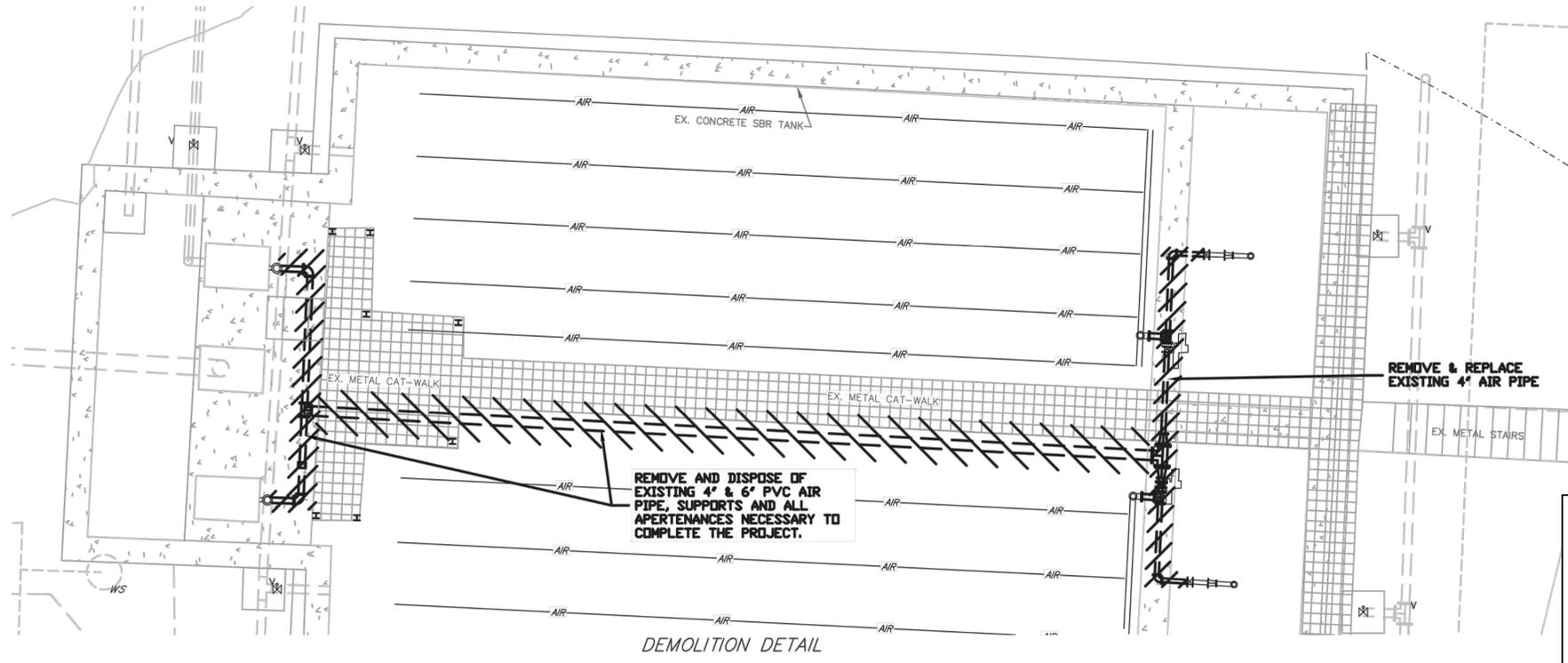
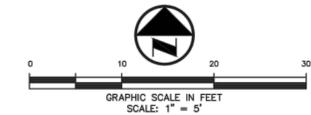
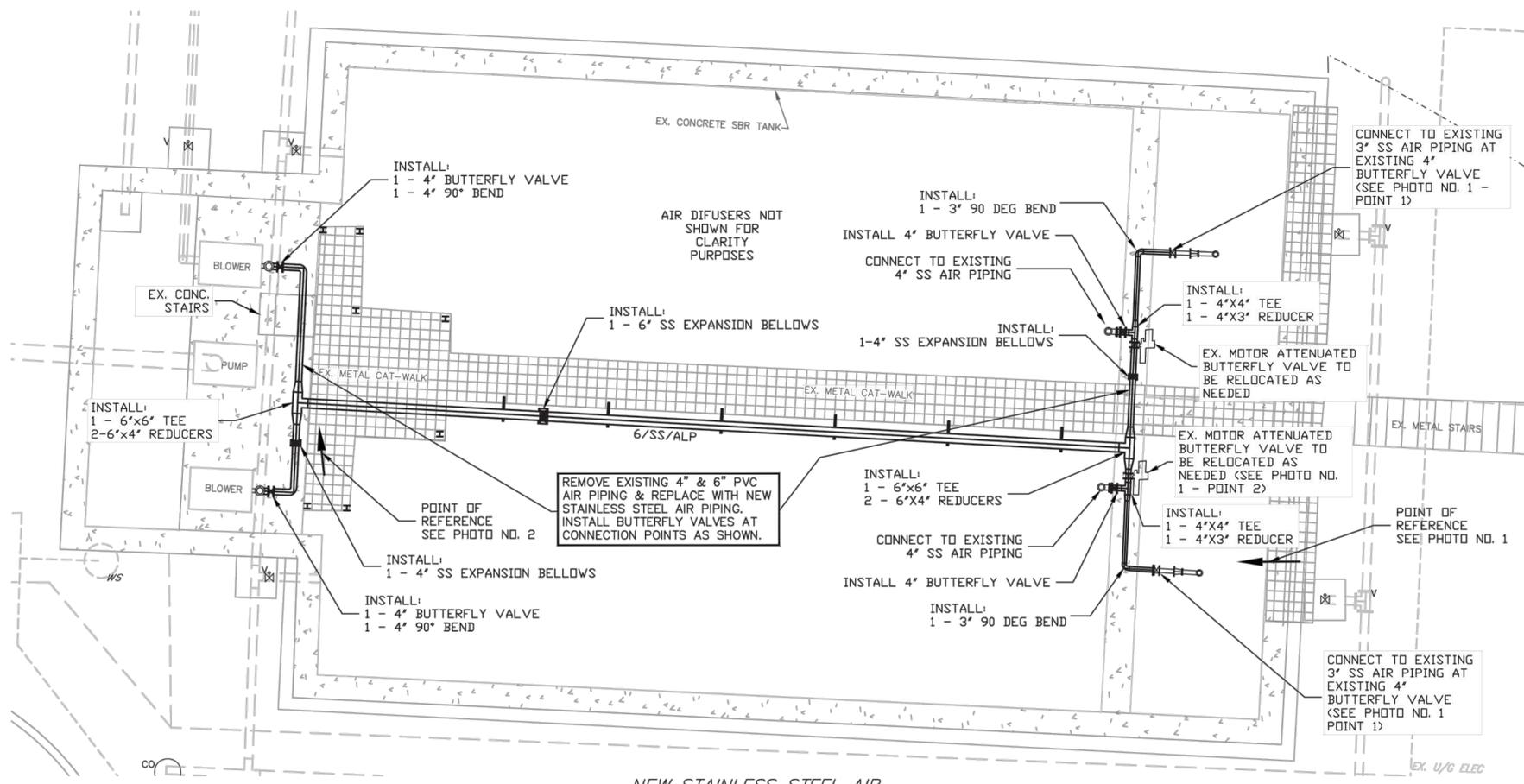


PHOTO NUMBER 1

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- NOTES:**
- REFER TO SPECIFICATION 1105 FOR COORDINATION AND SCHEDULE REQUIREMENTS FOR DEMOLITION IN THIS AREA. COORDINATE WITH OWNER THE SHUT DOWN OF SBR. ALL DEMOLITION AND INSTALLATION OF NEW AIR PIPING MUST BE COMPLETED IN 12 HOURS. CONTRACTOR MUST BE PREPARED TO SUPPLY TEMPORARY AIR OR AIR PIPING SHOULD INSTALLATION OF NEW AIR PIPING EXCEED 12 HOURS.
 - REMOVE AND DISPOSE OF MATERIAL OFF SITE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL LAWS.
 - DIMENSIONS, ELEVATIONS AND DETAILS OF EXISTING FACILITIES ARE BASED ON PREVIOUS CONSTRUCTION PLANS. THE OWNER AND/OR ENGINEER HAS NOT FIELD VERIFIED THE DIMENSIONS AND ELEVATIONS. THE ACCURACY AND COMPLETENESS OF THE INFORMATION SHOWN ON THIS DRAWING IS NOT GUARANTEED. SOME OF THE EXISTING EQUIPMENT INFORMATION HAS BEEN OMITTED FOR CLARITY. ACTUAL DIMENSIONS, ELEVATIONS AND DETAILS WILL VARY. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING THE JOB TO DETERMINE THE EXTENT OF WORK AND THE DIFFICULTIES IN CONSTRUCTION OF THE NEW FACILITIES AND SHALL INCLUDE, BUT ARE NOT LIMITED TO:
 - MEASUREMENT OF ALL PIPE LENGTHS
 - DETERMINATION OF ACCESS
 - DETERMINATION OF SHUTDOWN RESTRICTIONS
 - DETERMINATION OF REQUIRED FITTING SIZES AND TYPES NEEDED
 - DETERMINATION OF NEW TO EXISTING CONNECTION REQUIREMENTS
 THE CONTRACTOR SHALL FIELD VERIFY PRIOR TO FABRICATION AND CONSTRUCTION AND MAKE ANY NECESSARY ADJUSTMENTS AT NO ADDITIONAL COST AND WITHOUT EXTENSION OF THE CONTRACT TIME TO THE OWNER.
 - PROTECT EXISTING STRUCTURES, PIPING AND EQUIPMENT WHICH ARE TO REMAIN. REPLACE ITEMS DAMAGED BY CONSTRUCTION OR DEMOLITION AT NO COST TO OWNER. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL VIDEO TAPE AND TAKE PICTURES OF EXISTING FACILITIES.
 - ALL PROPOSED AIR PIPING SHALL BE STAINLESS STEEL SCH 10 SHOP-WELDED JOINT AND FLANGED.
 - CONTRACTOR TO FIELD VERIFY AND INFORM ENGINEER OF THE ACTUAL SIZE OF ALL EXISTING AIR PIPING THAT SHALL BE CONNECTED TO. CONTRACTOR TO SUBMIT THESE PIPE SIZES AND THE PROPOSED METHOD OF CONNECTION TO THE NEW STAINLESS STEEL PIPING IN THE FORM OF A SHOP DRAWING SUBMITTAL TO BE APPROVED BY THE ENGINEER PRIOR TO ACQUISITION OF NEW STAINLESS STEEL PIPE AND ASSOCIATED APPURTENANCES.
 - SBR BASINS CONTAINS AIR DIFFUSERS AND PIPING. USE SCAFFOLDING, NETTING AND TEMPORARY PROTECTIVE MEANS TO PREVENT DAMAGE. 2' TO 3' OF WATER MUST REMAIN IN THE SBR BASIN AT ALL TIMES.
 - CONTRACTOR MAY INSTALL ADDITIONAL FLANGE CONNECTIONS AND MECHANICAL COUPLINGS TO FACILITATE INSTALLATION OF SS AIR PIPING.
 - PROVIDE NEOPRENE SPACER BETWEEN SS AIR PIPING AND ALL NON-STAINLESS STEEL PIPE SUPPORTS TO PREVENT GALVANIC CORROSION.



PHOTO NUMBER 2

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Essayon Engineering & Dev., Inc.
 1723 E. Southlake Blvd. Suite 120 Southlake, Texas 76092
 (972) 790-0081 PHONE (214) 257-8347 FAX dmcswain@essayoneng.com #004684

STATE OF TEXAS
 DAVID G. MCSWAIN
 87559
 LICENSED PROFESSIONAL ENGINEER
 David G. McSwain
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ATTACHMENT 1-AD4

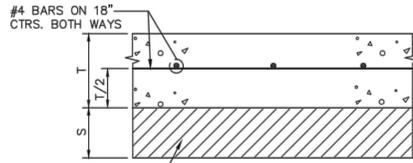
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 USER: David

DESIGNED BY JCK
 DRAWN BY DGM
 CHECKED BY DGM
 REVIEWED BY RRS

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 CELINA WASTEWATER TREATMENT PLANT
 SLUDGE DEWATERING IMPROVEMENTS

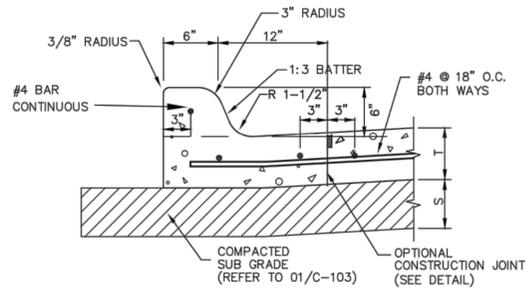
MECHANICAL
 SBR PIPING PLAN
 Seq. 28 of 43
 Dwg. No. M-500
 JOB NO: 0856-003-01
 Sep 18, 2012
 SS-201209-01



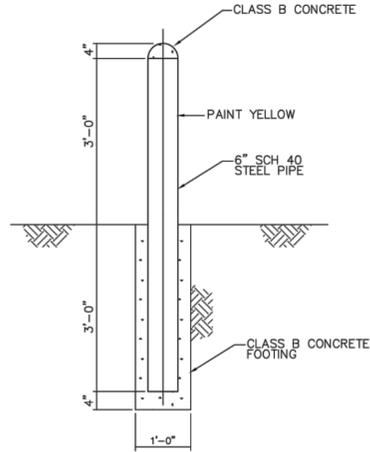
7% LIME STABILIZED SUB GRADE AT T = 7", CLASS "A", 4,000 PSI @ 28 DAYS - DRIVES AND FIRE LANES
 95 TO 100 PERCENT OF OPTIMUM DENSITY IN ACCORDANCE WITH ASTM D 698.
 REFER TO GEOTECH FOR MOISTURE CONTENT. * REFER TO GEOTECH FOR ENTRAINED AIR AND SLUMP REQUIREMENTS.

SLAG CEMENT (GROUND GRANULATED BLAST-FURNACE SLAG) MAY BE SUBSTITUTED FOR UP TO A MAX. OF 40% OF THE REQUIRED PORTLAND CEMENT IN CONCRETE. (PER ASTM C 989 & C 595) SEPARATE CEMENTITIOUS MATERIAL AT A CONCRETE BATCH PLANT AS GOVERNED BY ASTM C 989 STANDARD SPECIFICATION FOR GROUND GRANULATED BLAST FURNACE-SLAG FOR USE IN CONCRETE AND MORTARS. BLENDED CEMENTS BY THE PORTLAND CEMENT SUPPLIER TO ADD SLAG CEMENT TO CONCRETE AS GOVERNED BY ASTM C 595 STANDARD SPECIFICATIONS FOR BLENDED HYDRAULIC CEMENTS.

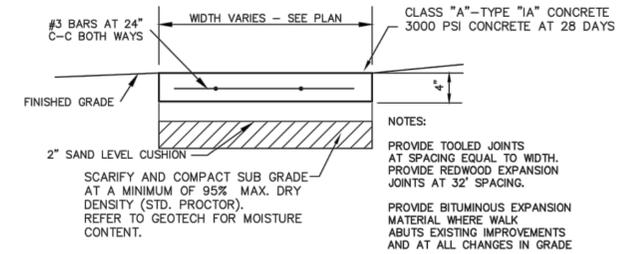
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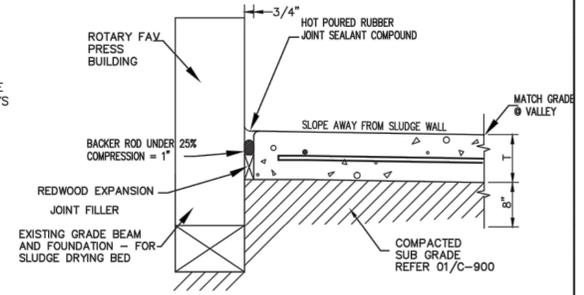
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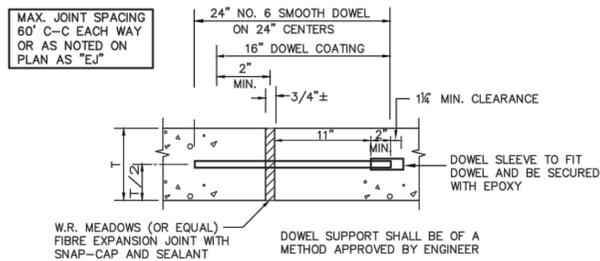
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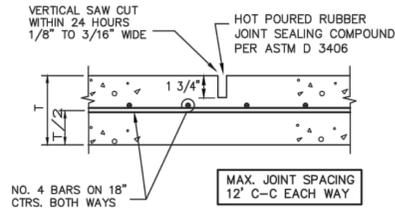
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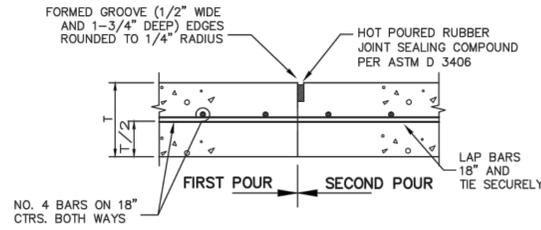
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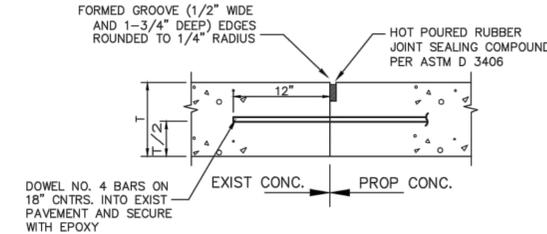
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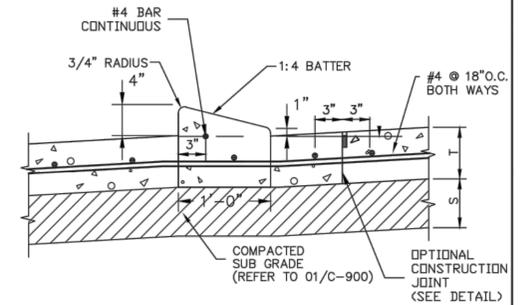
07 SAWED DUMMY JOINT
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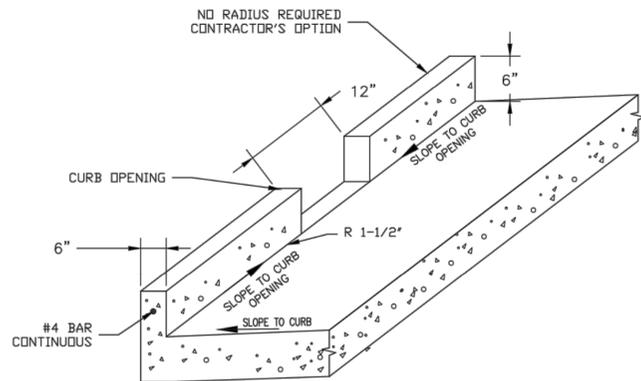
08 CONSTRUCTION JOINT
 C-900 NOT TO SCALE



09 PAVEMENT CONNECTION
 C-900 NOT TO SCALE



10 MOUNTABLE CURB
 C-900 NOT TO SCALE



11 SLUDGE BED CURB OPENINGS
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Essayon Engineering & Dev., Inc.
 1725 E. Southlake Blvd.
 Suite 120
 Southlake, Texas 76092
 #1-004684
 (972) 790-0081 PHONE
 (214) 257-8347 FAX
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ATTACHMENT 1-AD4

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 USER: David
 SAVED: 9/18/2012 5:09 PM

DESIGNED BY	JCK
DRAWN BY	DGM
CHECKED BY	DGM
REVIEWED BY	RRS
ISSUED FOR RECORD	FJC
REVISION	BY

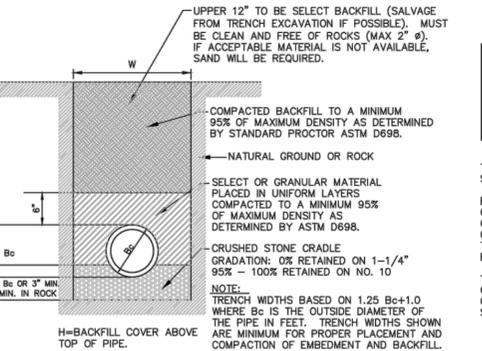
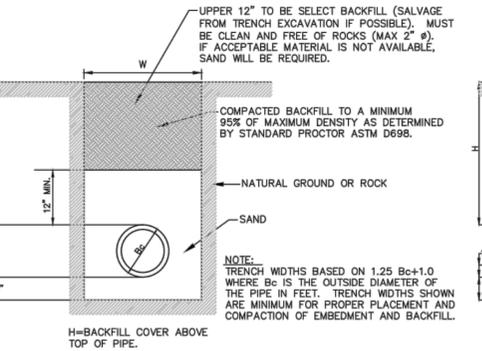
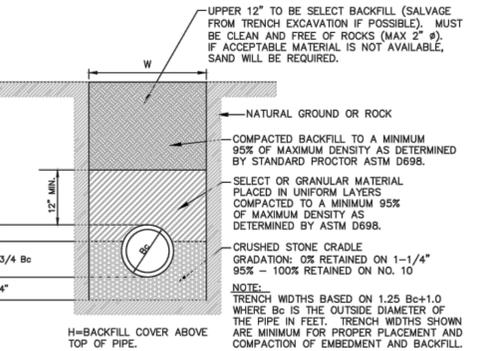
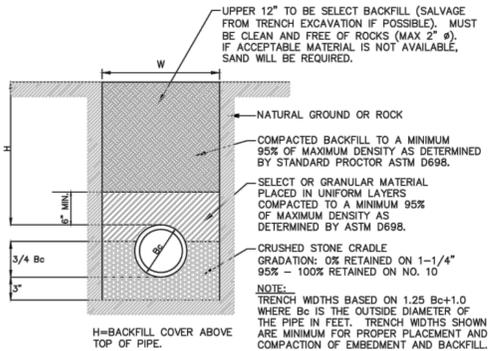
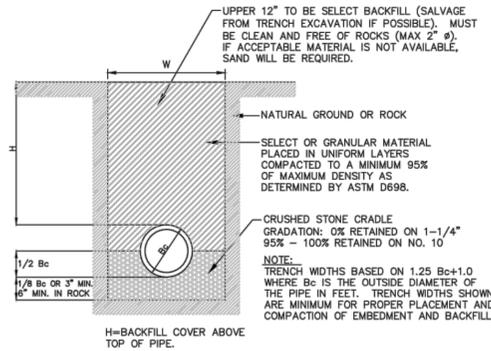
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 DALLAS, TEXAS 75247-4066
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 SLUDGE DEWATERING IMPROVEMENTS

CIVIL DETAILS
 DETAILS PAVING

Seq. 29 of 43
 Dwg. No. C-900
 JOB NO: 0856-003-01



PIPE MATERIAL	EMBEDMENT CLASS
RCP	CLASS "B"
PVC	CLASS "B-1"
DUCTILE IRON	CLASS "B-3"
ADS	CLASS "B-2"
CLAY	CLASS "C"

THE EMBEDMENT CONSISTS OF A CRADLE OF FINE CRUSHED STONE AND A CAP OF SELECT MATERIAL OR GRANULAR MATERIAL. BEDDING LAYER TO BE BROUGHT TO A POINT SLIGHTLY ABOVE GRADE WITH COMPACTED FINE CRUSHED STONE. STANDARD GRADATION. BELL HOLES SHALL BE FORMED, A TROUGH SCOOPED OUT TO GRADE AND THE PIPE LAID AND JOINTED AS SPECIFIED. THE STONE SHALL BE BROUGHT UP IN UNIFORM LAYERS ON EITHER SIDE TO THE POINT SHOWN ON THE EMBEDMENT DETAIL. THE EMBEDMENT BACKFILL SHALL CONSIST OF SELECT OR GRANULAR MATERIAL. THE MATERIAL SHALL BE PLACED ON TOP OF THE CRUSHED STONE IN UNIFORM LAYERS TO THE HEIGHT AS SHOWN ON THE DETAIL.

NOTE: TRACER TAPE SHALL BE PROVIDED ABOVE ALL PLASTIC PIPE.

01
C-901

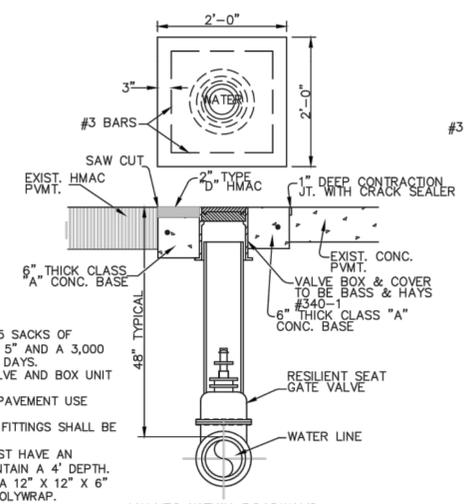
CLASS "B"

CLASS "B-1"

CLASS "B-2"

CLASS "B-3"

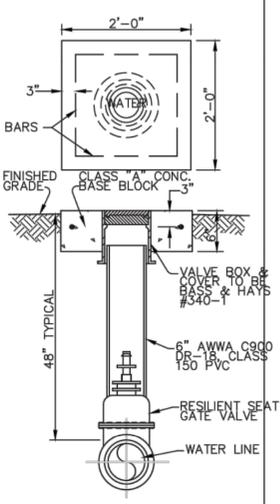
CLASS "C"



- NOTE:
- CLASS 'A' CONCRETE SHALL HAVE 5 SACKS OF CEMENT/C.Y., A MAXIMUM SLUMP OF 5" AND A 3,000 PSI COMPRESSIVE STRENGTH AT 28 DAYS.
 - ALL ITEMS SHOWN INCLUDED IN VALVE AND BOX UNIT PRICE. COMPLETE IN PLACE.
 - WHERE VALVE IS LOCATED IN THE PAVEMENT USE ADJUSTABLE VALVE STACKS.
 - ALL CAST IRON AND DUCTILE IRON FITTINGS SHALL BE WRAPPED IN POLYWRAP.
 - VALVES IN EXCESS OF 4' DEEP MUST HAVE AN OPERATING NUT EXTENSION TO MAINTAIN A 4' DEPTH.
 - VALVES SHALL BE SUPPORTED ON A 12" X 12" X 6" CONCRETE PAD AND WRAPPED IN POLYWRAP.

VALVE BOX INSTALLATION DETAIL
N.T.S.

02
C-901



VALVES IN YARDS OR OTHER AREAS NOT SUBJECT TO TRAFFIC

03
C-901

POLYETHYLENE FILM SHALL BE USED AS A WRAP TO PROTECT CAST IRON AND OTHER METALS IN A CORROSIVE SOIL ENVIRONMENT. AN 8 MIL POLYETHYLENE FILM WRAP SHALL BE REQUIRED AROUND ALL METAL PIPE AND APPURTENANCES (EXCEPT FIRE HYDRANTS). POLYETHYLENE FILM SHALL BE FURNISHED AND INSTALLED EITHER IN TUBULAR FORM PRIOR TO LOWERING THE PIPE IN TRENCH OR IN SHEET FORM.

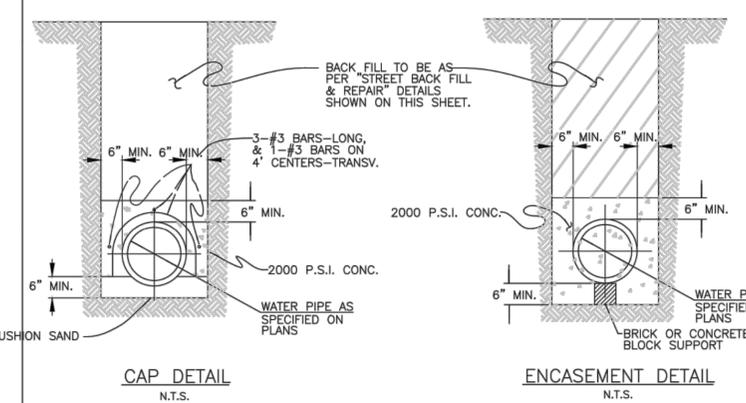
MINIMUM WIDTH OF FILM TUBE (WHEN LAYING FLAT)

NOMINAL PIPE SIZE	PUSH-ON JOINT FLAT TUBE WIDTH
4"	14"
6"	21"
8"	25"
10"	29"
12"	33"
14"	37"
16"	41"
18"	45"
20"	49"
24"	53"

FILM IN SHEET FORM SHALL HAVE A WIDTH EQUAL TO TWICE THAT SHOWN FOR TUBE WIDTHS.

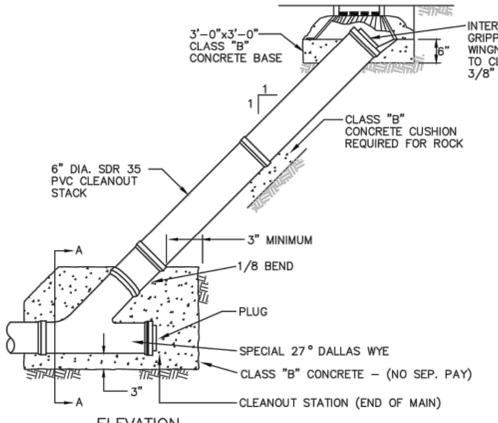
POLYETHYLENE TUBE ENCASUREMENT SHALL CONFORM WITH THE MINIMUM REQUIREMENTS OF "POLYETHYLENE ENCASUREMENT FOR GRAY AND DUCTILE CAST-IRON PIPING FOR WATER AND OTHER LIQUIDS", ANSI/AWWA C105, CURRENT REVISION. SOILS WITHIN A PROJECT SHALL BE TESTED IN ACCORDANCE WITH APPENDIX A OF ANSI/AWWA C105 TO ADEQUATELY DETERMINE THE REQUIREMENTS FOR ENCASUREMENT.

POLYETHYLENE WRAP FOR IRON PIPE



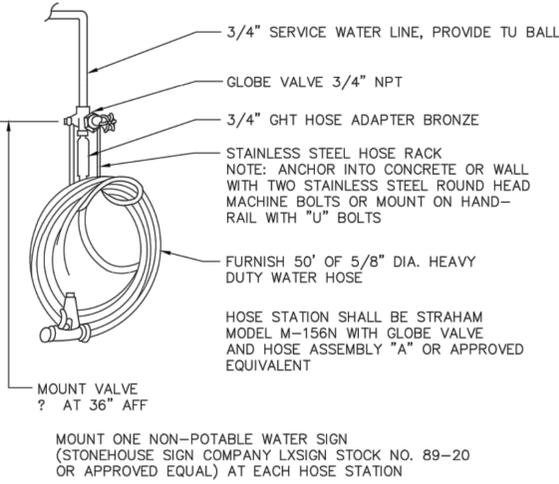
CAP/ENCASUREMENT DETAIL
N.T.S.

04
C-901



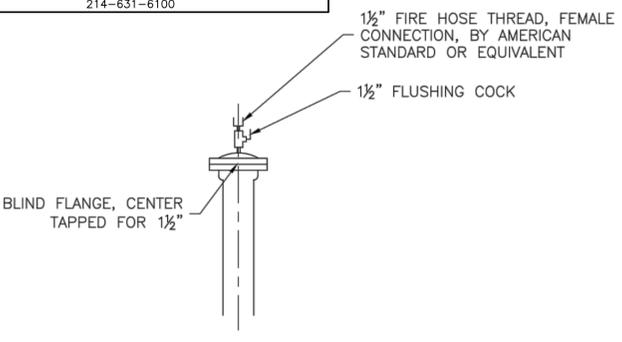
ELEVATION
NOT TO SCALE

08
C-901



HOSE STATION
N.T.S.

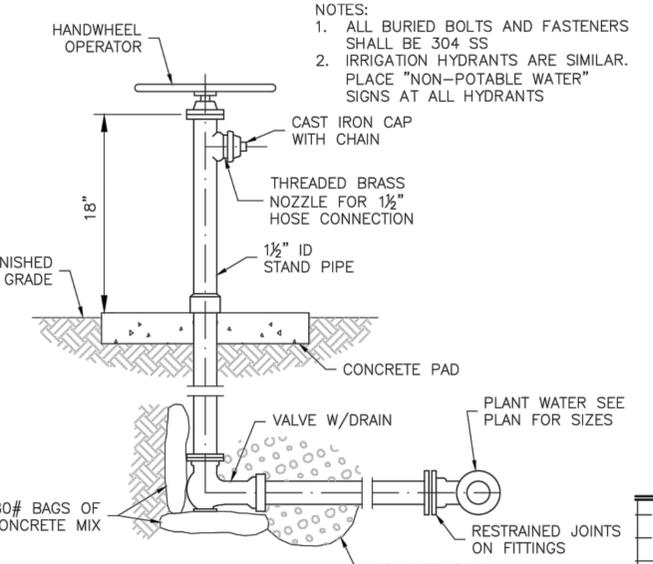
05
C-901



FLUSH POINT DETAIL
N.T.S.

06
C-901

HYDRANTS SHALL BE POST HYDRANT, 3' BURY, WITH 4 CUBIC FEET OF CRUSHED STONE BENEATH HYDRANT TO ALLOW DRAINAGE. ALL WORKING PARTS SHALL BE BRASS, WITH HYDRANT MAIN VALVE OPENING BEING 2 3/8". INLET CONNECTION SHALL BE 2" MJ, WITH THE OUTLET BEING 1 1/2" NST. THE OPERATING ROD SHALL BE NON-TURNING, AND ALL OPERATING PARTS SHALL BE REMOVABLE FROM ABOVE GROUND WITH NO SPECIAL WRENCHES. THIS SELF-DRAINING, NON-FREEZE HYDRANT BARREL WILL BE MADE OF 3" DIP AND SHALL HAVE A CI TOP STOCK, AS MFR'D. BY KUPFERLE FOUNDRY OR APPROVED EQUAL. PAINT HYDRANTS PER SPECIFICATIONS



YARD HYDRANT DETAIL
N.T.S.

07
C-901

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TBPE FIRM F-13
1349 EMPIRE CENTRAL, SUITE 1000
DALLAS, TEXAS 75247-4066
214-631-6100

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ENVIRONMENTAL ENGINEERS • DESIGNERS • SCIENTISTS

ALAN PLUMMER ASSOCIATES, INC.
1349 EMPIRE CENTRAL DRIVE, SUITE 1000
DALLAS, TEXAS 75247-4066
PHONE: 214-631-6100 FAX: 214-631-6109
TBPE REGISTRATION NO. F-13

CITY OF CELINA, TEXAS
CELINA WASTEWATER TREATMENT PLANT
SLUDGE DEWATERING IMPROVEMENTS

Essayon Engineering & Dev., Inc.
1723 E. Southlake Blvd.
Suite 120
Southlake, Texas 76092
004684
(972) 790-0081 PHONE
(214) 257-8347 FAX
dmcswain@essayoneng.com

STATE OF TEXAS
DAVID G. McSWAIN
87559
LICENSED PROFESSIONAL ENGINEER
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY DAVID G. McSWAIN, P.E. 87559 ON DATE 9/18/2012. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

ATTACHMENT 1-AD4

NO.	REVISION	DATE	BY
1/15	ISSUED FOR RECORD		FJC
	REVISION		BY

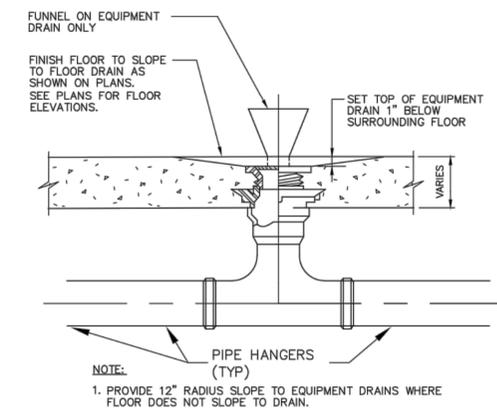
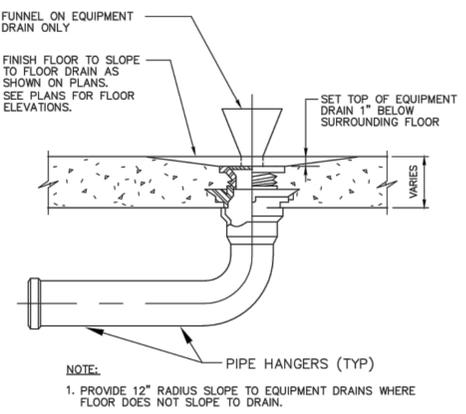
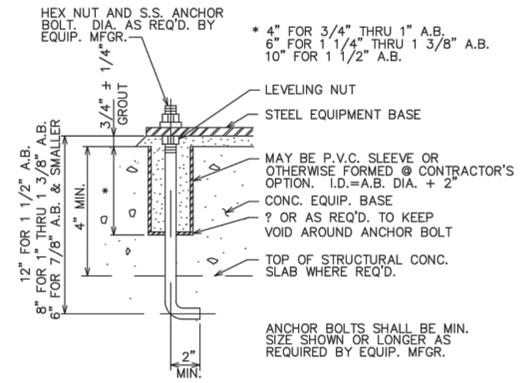
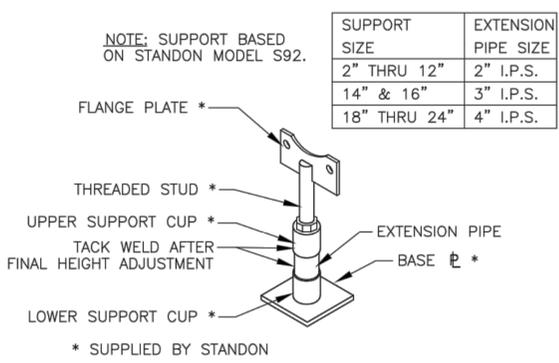
DESIGNED BY JCK
DRAWN BY DGM
CHECKED BY DGM
REVIEWED BY RRS

CIVIL DETAILS
WATER & SANITARY SEWER

Seq. 30 of 43
Dwg. No. C-901
JOB NO: 0856-003-01

REFERENCES: Celina_Ex_Boundary_map
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SAVED: 9/18/2012 5:09 PM

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 USER: David



01
C-902

NOT USED
NOT TO SCALE

02
C-902

FLANGE SUPPORT
NOT TO SCALE

03
C-902

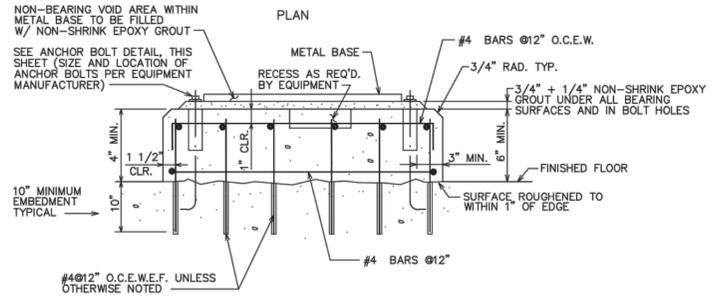
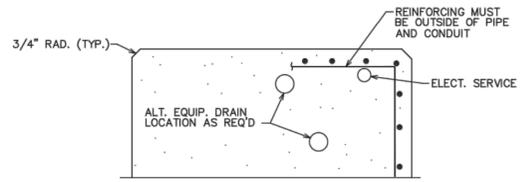
ANCHOR BOLT
NOT TO SCALE

04
C-902

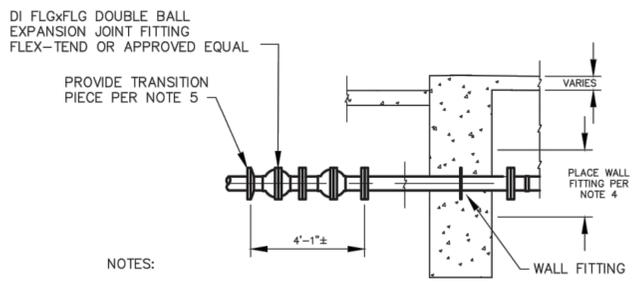
END FLOOR DRAIN
NOT TO SCALE

05
C-902

TEE FLOOR DRAIN
NOT TO SCALE



- EQUIPMENT BASE AND ANCHOR BOLT NOTES:
- ALL EQUIPMENT, INCLUDING TANKS, SHALL HAVE A CONCRETE EQUIPMENT BASE TO SUIT.
 - ANCHOR BOLTS SHALL BE SIZED FOR THE EQUIPMENT LOAD PLUS SEISMIC LOADS. (ZONE 1)
 - ANCHOR BOLTS SHALL BE SET IN POCKETS, EITHER PIPE OR BLOCKOUTS. ANCHOR BOLT SHALL PENETRATE STRUCTURAL SLAB AS REQ'D. TO MEET MINIMUM EMBEDMENT REQUIRED BY MANUFACTURER.
 - DRILLED HOLES WITH A.B. SET IN EPOXY MAY BE USED IN LIEU OF HOOKED BOLTS. EXPANSION SHELL TYPE BOLTS SHALL NOT BE USED.
 - ALL PENETRATIONS FOR CONDUIT AND PIPING SHALL BE WITHIN CONCRETE EQUIPMENT PAD. PAD TO BE CONFIGURED ACCORDINGLY.
 - PIPE AND CONDUIT FOR FUTURE EQUIPMENT SHALL BE CAPPED FLUSH W/ FINISHED FLOOR.



- NOTES:
- PROVIDE 316 SS HARDWARE KITS FOR ALL FLANGE CONNECTIONS.
 - ALL MJ CONNECTIONS SHALL BE RESTRAINED.
 - TYPICAL PIPE SUPPORTS SHOWN. PROVIDE SUPPORTS PER SPECIFICATION FOR EXPOSED DIP.
 - PLACE WALL FITTING IN CENTER 1/3 OF GRADE BEAM.
 - PROVIDE FLGXRESTRAINED MJ SPOOL.

08
C-902

FLEXIBLE CONNECTION TO STRUCTURES
NOT TO SCALE

06
C-902

NOT USED
NOT TO SCALE

07
C-902

EQUIPMENT BASE
NOT TO SCALE

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 DALLAS, TEXAS 75247-4066
 214-631-6100



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1723 E. Southlake Blvd.
 Suite 120
 Southlake, Texas 76092
 #1-004684

(972) 790-0081 PHONE
 (214) 257-8347 FAX
 dmcswain@essayoneng.com

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ATTACHMENT 1-AD4

DESIGNED BY	JCK
DRAWN BY	DGM
CHECKED BY	DGM
REVIEWED BY	RRS

ISSUED FOR RECORD
REVISION

FJC
BY

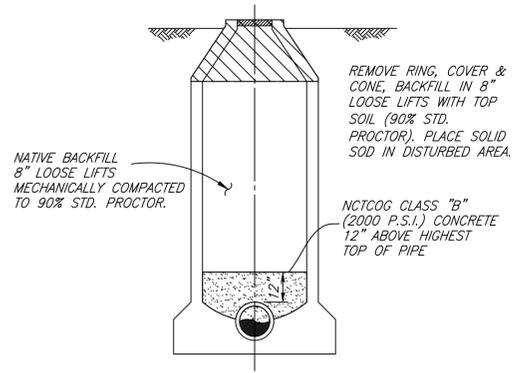


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 DALLAS, TEXAS 75247-4066
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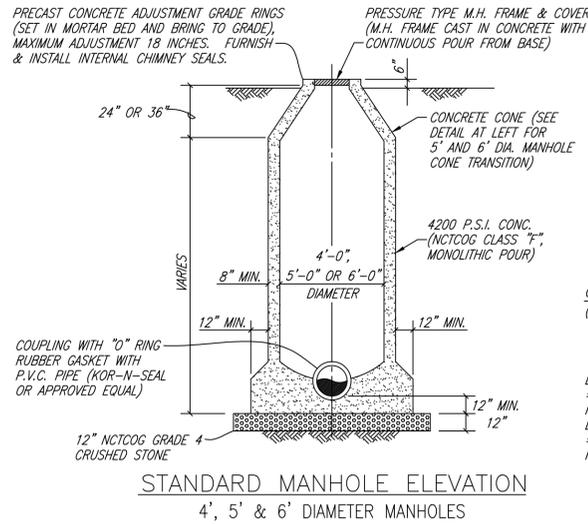
CITY OF CELINA, TEXAS
 CELINA WASTEWATER TREATMENT PLANT
 SLUDGE DEWATERING IMPROVEMENTS

CIVIL DETAILS
 DETAILS MECHANICAL

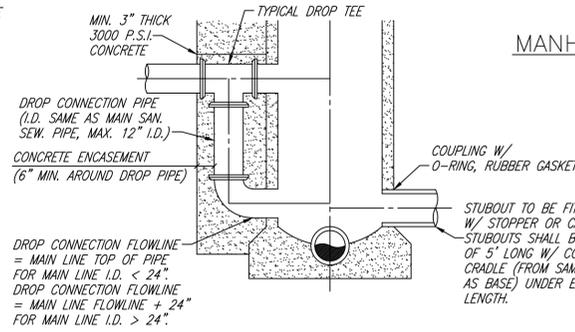
Seq. 31 of 43
 Dwg. No. C-902
 JOB NO: 0856-003-01



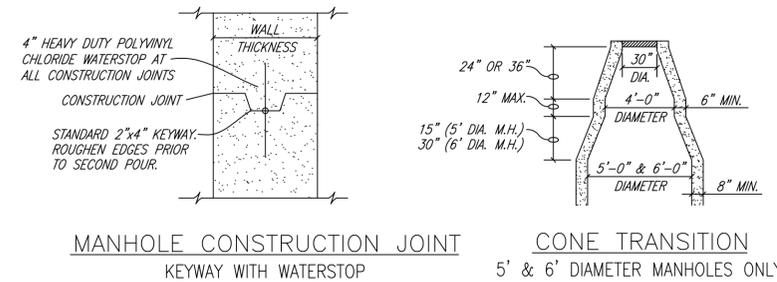
MANHOLE ABANDONMENT
OUTSIDE PAVEMENT AREA
(MHABAN)



STANDARD MANHOLE ELEVATION
4', 5' & 6' DIAMETER MANHOLES

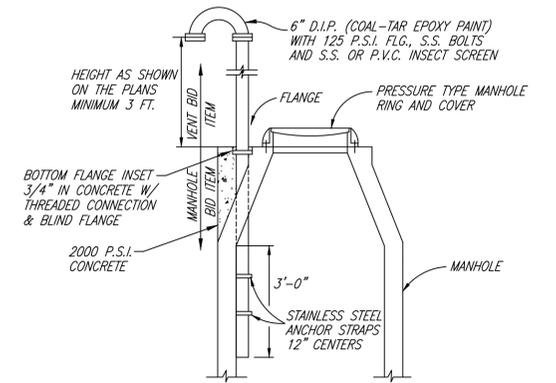


DROP MANHOLE ELEVATION
4', 5' & 6' DIAMETER MANHOLES

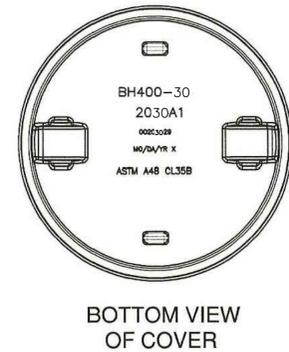
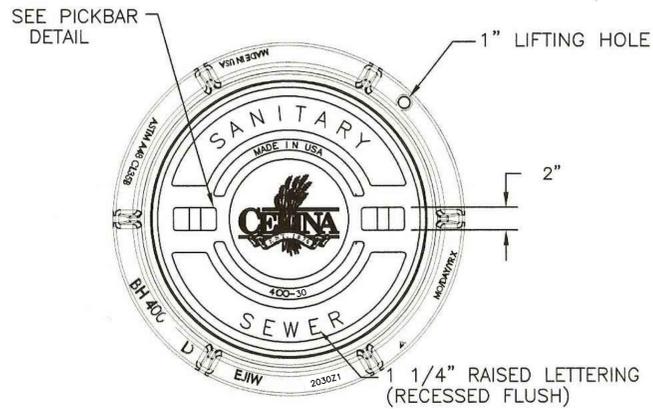


MANHOLE CONSTRUCTION JOINT
KEYWAY WITH WATERSTOP

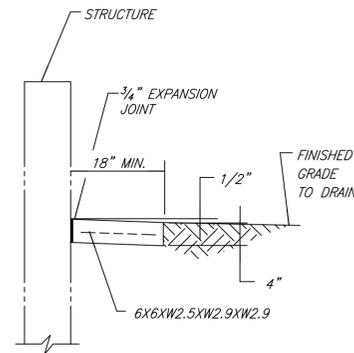
CONE TRANSITION
5' & 6' DIAMETER MANHOLES ONLY



CONE TOP MANHOLE VENT
NO SCALE



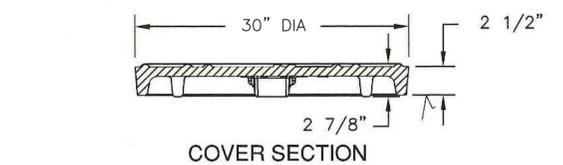
BOTTOM VIEW OF COVER



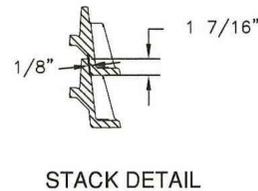
NOTES:

1. PROVIDE EXPANSION JOINTS AT MAXIMUM 120' O.C. AND AT INTERSECTIONS. PROVIDE GROOVES AT EQUAL SPACING NOT TO EXCEED 5'-6" O.C. BROOM FINISH. PROVIDE EXPANSION JOINT MATERIAL AGAINST ALL CURBS AND STRUCTURES.
2. INSTALL TYPICAL MOW STRIP ALL AROUND UNPAVED PERIMETERS OF ALL NEW STRUCTURES INCLUDING METER VAULTS AND MANHOLES AND WHERE INDICATED ON PLANS.
3. CONCRETE PER SPECIFICATIONS.

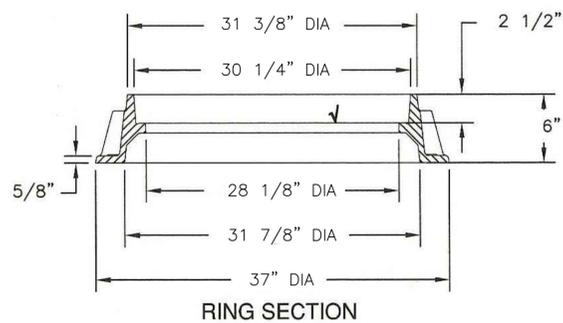
TYPICAL MOW STRIP
NO SCALE



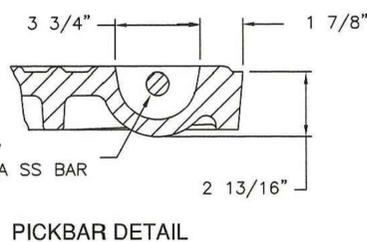
COVER SECTION



STACK DETAIL



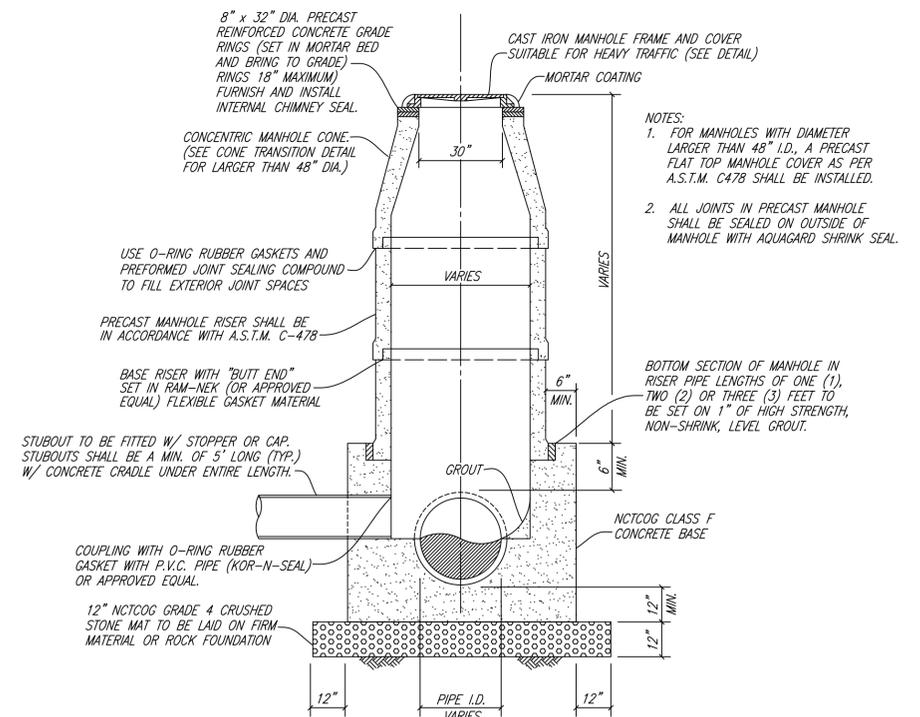
RING SECTION



PICKBAR DETAIL

1" DIA. 6" LONG STAINLESS STEEL ANCHOR BOLTS W/ HEX. HEAD NUT 6 REQUIRED

STANDARD MANHOLE COVER AND FRAME
NO SCALE



PRECAST CONCRETE MANHOLE
NO SCALE

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REFERENCES: borge Feb. 2015 \\dell.dad.apa\share\Projects\0856\003-01\ADDENDA\ADDENDUM_NO_4\Acad\C-903.dwg LAYOUT1: Layout1 USER: \\dell.dad.apa\share\Projects\0856\003-01\ADDENDA\ADDENDUM_NO_4\Acad\C-903.dwg LAYOUT1: Layout1 USER:

BAR IS ONE INCH IN LENGTH ON ORIGINAL DRAWING. CHECK SCALE AND ADJUST ACCORDINGLY.
ONE INCH

NO.	DATE	REVISION	BY
1/15		ISSUED FOR RECORD	FJC
9/12		REPLACED SHEET PER ADDENDUM A4	RJE

DESIGNED BY	RRS
DRAWN BY	HLT
CHECKED BY	RRS
REVIEWED BY	TJN

ALAN PLUMMER ASSOCIATES, INC.
ENVIRONMENTAL ENGINEERS AND SCIENTISTS

ALAN PLUMMER ASSOCIATES, INC.
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DALLAS, TEXAS 75247-4066
PHONE: 214-631-6100 FAX: 214-631-6109
TBPE REGISTRATION NO. F-13

CITY OF CELINA, TEXAS
CELINA WASTEWATER TREATMENT PLANT
SLUDGE DEWATERING IMPROVEMENTS

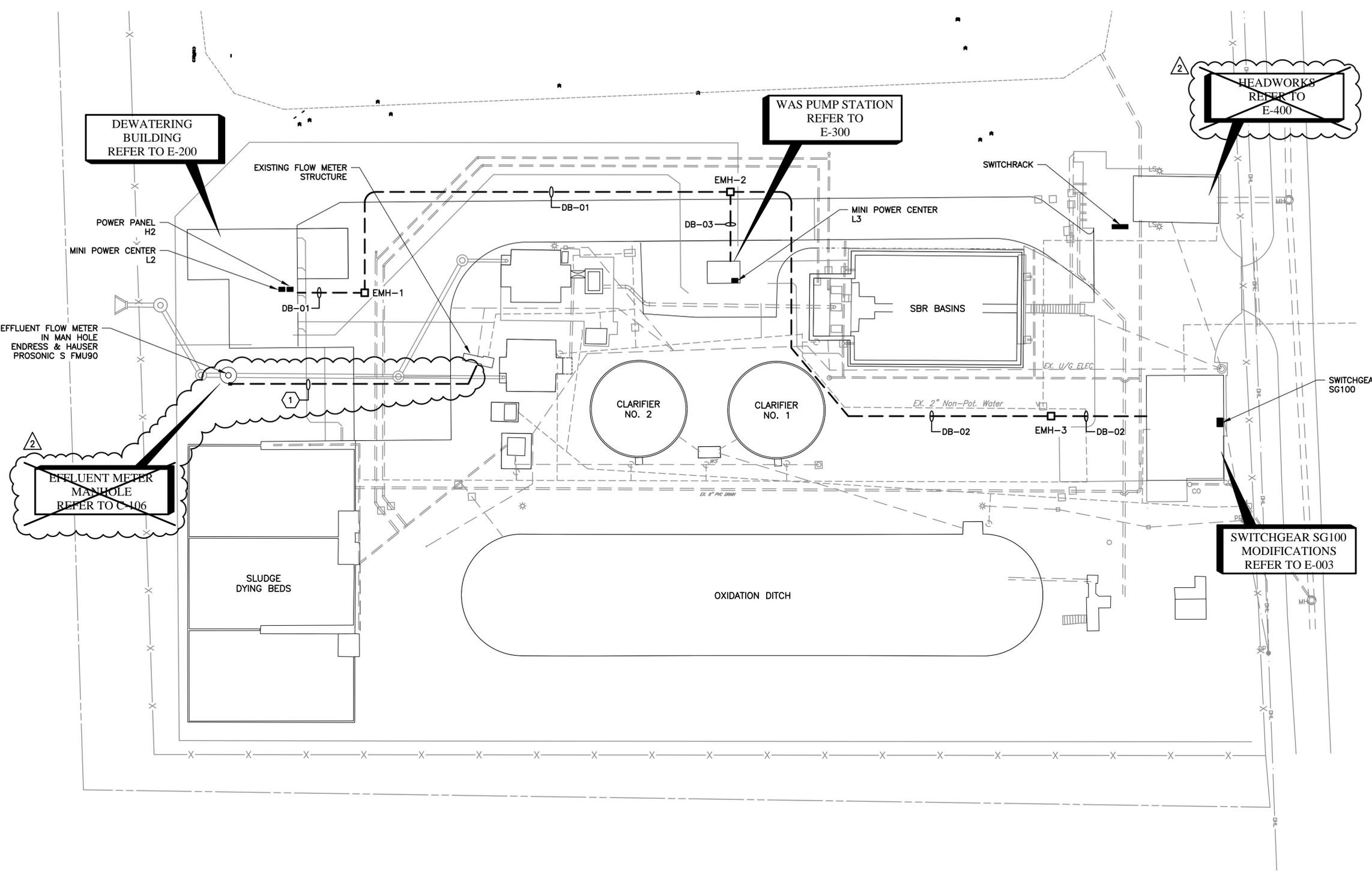
CIVIL MANHOLE DETAILS



- NOTES:**
1. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND LOCAL ELECTRICAL CODES.
 2. ALL JUNCTION BOXES SHALL BE STAINLESS STEEL NEMA 4X RATED ENCLOSURES WITH STAINLESS STEEL HARDWARE.

ITEMS INDICATED BY

INSTALL 3/4\"/>



12" SPACE BETWEEN POWER AND CONTROL

SG100-8	H2-2,4,6	RFP-9
2" SPARE	H2-8,10,12	RFP-10
2" SPARE	2" SPARE	COMM

DUCTBANK DB-01

12" SPACE BETWEEN POWER AND CONTROL

SG100-8	COMM
2" SPARE	1" SPARE

DUCTBANK DB-02

12" SPACE BETWEEN POWER AND CONTROL

H2-2,4,6	H2-8,10,12	RFP-9
2" SPARE	2" SPARE	RFP-10
		1" SPARE

DUCTBANK DB-03

SITE PLAN
SCALE: 1" = 20'

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1349 EMPIRE CENTRAL, SUITE 1000
DALLAS, TEXAS 75247-4066
214-631-6100

THIS SEAL THAT ORIGINALLY APPEARED ON THIS DOCUMENT WAS AUTHORIZED BY PATRICK N. MOSELEY, TEXAS NO. 72794 ON 09/18/2012.

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REFERENCES: Celina-TLBU.dwg, Celina Electrical Site Plan, Feb 26, 2015 - 11:40am \\dai.dal.apa\share\Projects\0856\003-01\ADDENDA\ADDENDUM_NO_4\Acad\ELECTRICAL\E-002 ELECTRICAL SITE PLAN.dwg LAYOUT: ELECTRICAL SITE PLAN USER:

NO.	DATE	REVISION	BY
1	01/15	ISSUED FOR RECORD	FJC
2	10/12	NOT IN THIS CONTRACT	FJC
3	9/12	REPLACED SHEET PER ADDENDUM AD5	PDH

DESIGNED BY	PDH
DRAWN BY	PDH
CHECKED BY	PNM
REVIEWED BY	PNM

ALAN PLUMMER ASSOCIATES, INC.
ENVIRONMENTAL ENGINEERS AND SCIENTISTS

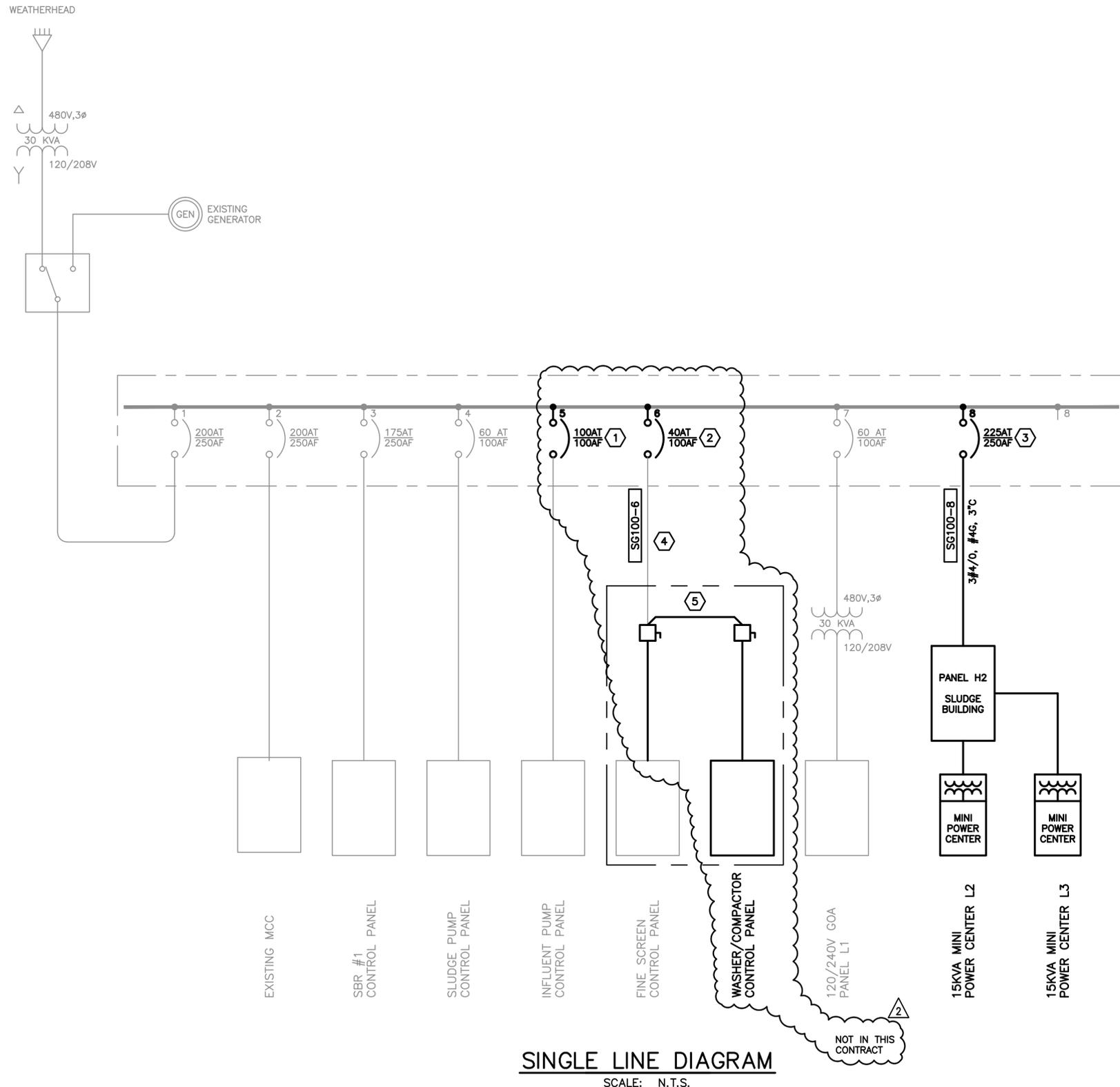
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1349 EMPIRE CENTRAL DRIVE, SUITE 1000
DALLAS, TEXAS 75247-4066
PHONE: 214-631-6100 FAX: 214-631-6109
TBPE REGISTRATION NO. F-13

CITY OF CELINA, TEXAS
CELINA WASTEWATER TREATMENT PLANT
SLUDGE DEWATERING IMPROVEMENTS

ELECTRICAL ELECTRICAL SITE PLAN

Seq. No. **E-002** of 34

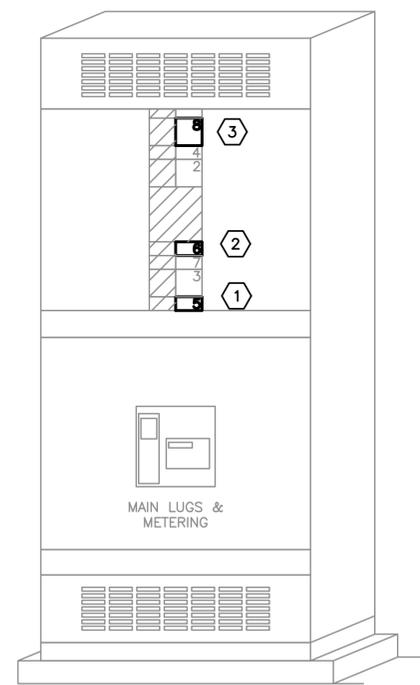
0856-003-01



SINGLE LINE DIAGRAM
SCALE: N.T.S.

- NOTES:**
1. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND LOCAL ELECTRICAL CODES.
 2. ALL JUNCTION BOXES SHALL BE STAINLESS STEEL NEMA 4X RATED ENCLOSURES WITH STAINLESS STEEL HARDWARE.

- ITEMS INDICATED BY #**
1. RELOCATE EXISTING 100A/3P BREAKER IN NEW LOCATION TO ALLOW NEW BREAKERS TO UTILIZE EXISTING SPACES IN PANEL. PROVIDE NAMEPLATE.
 2. FURNISH AND INSTALL NEW 40A/3P BREAKER IN EXISTING PANEL. PROVIDE NAMEPLATE.
 3. FURNISH AND INSTALL NEW 225A/3P BREAKER IN EXISTING PANEL. PROVIDE NAMEPLATE.
 4. REMOVE EXISTING CONDUCTORS, FURNISH AND INSTALL NEW CONDUCTORS IN EXISTING CONDUIT.
 5. REFER TO E-400 FOR WORK REQUIRED IN HEADWORKS AREA.



EXISTING SWITCHGEAR ELEVATION
SCALE: N.T.S.

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REFERENCES: Ceiling-TLBUK.dwg, M-400
Feb 26, 2015 - 11:39am \\dal.dapal\share\Projects\0856\003-01\ADDENDA\ADDENDUM_NO_4\Acad\ELECTRICAL\E-003 SINGLE LINE DIAGRAM.dwg LAYOUT: SINGLE LINE DIAGRAM USER:

NO.	DATE	REVISION	BY
1	01/15	ISSUED FOR RECORD	FJC
2	10/12	NOT IN THIS CONTRACT	FJC
3	9/12	REPLACED SHEET PER ADDENDUM AD5	PDH

DESIGNED BY	PDH
DRAWN BY	PDH
CHECKED BY	PNM
REVIEWED BY	PNM



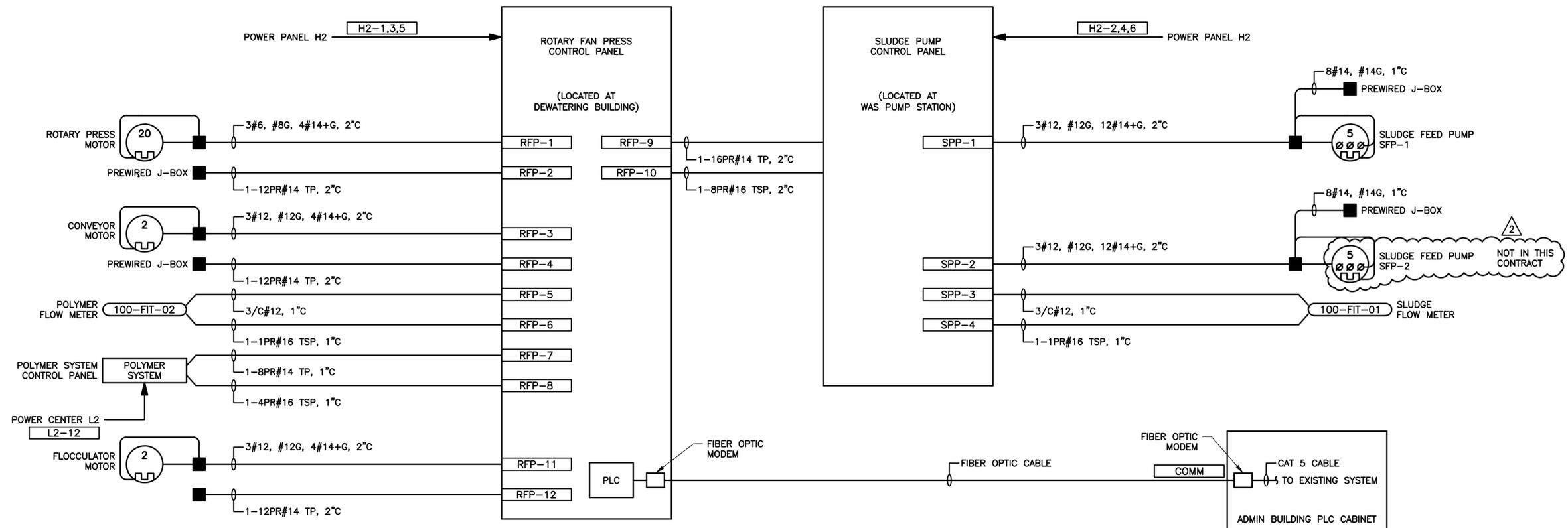
ALAN PLUMMER ASSOCIATES, INC.
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DALLAS, TEXAS 75247-4066
PHONE: 214-631-6100 FAX: 214-631-6109
TBPE REGISTRATION NO. F-13

CITY OF CELINA, TEXAS
CELINA WASTEWATER TREATMENT PLANT
SLUDGE DEWATERING IMPROVEMENTS

ELECTRICAL
SINGLE LINE DIAGRAM

Seq. 35 of 43
Dwg. No. E-003
0856-003-01

REFERENCES: Celina-TLBUK Feb 26, 2015 - 11:39am \\dell-dal\pa\share\projects\0856\003-01\ADDENDA\ADDENDUM_NO_4\Acad\ELECTRICAL\E-004 CONNECTION DIAGRAM AND SCHEDULES.dwg LAYOUT: CONNECTION DIAGRAM AND SCHEDULES USER:



- NOTES:**
1. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND LOCAL ELECTRICAL CODES.
 2. ALL JUNCTION BOXES SHALL BE STAINLESS STEEL NEMA 4X RATED ENCLOSURES WITH STAINLESS STEEL HARDWARE.

CONNECTION DIAGRAM
SCALE: N.T.S.

PANEL: MINI POWER CENTER L2										ENCLOSURE: NEMA 3R			MAIN: 50A						
LOCATION: DEWATERING BUILDING										VOLTS: 120/08V, 3 PHASE, 4 WIRE			NEUTRAL:						
										BRACING: 22,000A FULLY RATED			FEED:						
LOAD SERVED	LOAD (KVA)			BREAKER		BRANCH CIRCUIT CONDUIT & WIRING	CKT	PH	CKT	BRANCH CIRCUIT CONDUIT & WIRING	BREAKER		LOAD (KVA)			LOAD SERVED			
	A	B	C	AMP	POLE						AMP	POLE	A	B	C				
RECEPTACLES	0.00			20	1	2#10, #10G, 1°C	1	A	2	2#10, #10G, 1°C	20	1	0.00			LIGHTS			
EXHAUST FAN		0.00		30	2	2#10, #10G, 1°C	3	B	4	2#10, #10G, 1°C	30	2	0.00		0.00	UNIT HEATER NO. 1			
HEAT TRACE	0.00			20	1	2#10, #10G, 1°C	7	A	8	2#10, #10G, 1°C	30	2	0.00		0.00	UNIT HEATER NO. 1			
RECEPTACLES			0.00	20	1	2#10, #10G, 1°C	11	C	12	2#10, #10G, 1°C	20	1	0.00		0.00	POLYMER SYSTEM CONTROL PANEL			
ENCLOSURE J-BOX			0.00	20	1	2#10, #10G, 1°C	15	B	16	3#10, #10G, 1°C	30	3	0.00		0.00	MIXER DEDICATED RECEPTACLE			
SPARE			0.00	20	1	2#10, #10G, 1°C	17	C	18						0.00				
TOTAL	0.00	0.00	0.00										0.00	0.00	0.00				
TOTAL BUS A LOAD:										0.00		KVA							
TOTAL BUS B LOAD:										0.00		KVA							
TOTAL BUS C LOAD:										0.00		KVA							
TOTAL CONNECTED KVA:													0.00						

SCHEDULE NOTES:

1. REFER TO SPECIFICATION SECTION 16442 PANELBOARDS FOR ADDITIONAL REQUIREMENTS.
2. ALL BUSSES SHALL BE PLATED COPPER.
3. ALL BREAKERS SHALL BE FULLY RATED.

PANEL: POWER PANEL H2										ENCLOSURE: NEMA 3R			MAIN: 200A						
LOCATION: DEWATERING BUILDING										VOLTS: 480V, 3 PHASE, 4 WIRE			NEUTRAL:						
										BRACING: 22,000A FULLY RATED			FEED:						
LOAD SERVED	LOAD (KVA)			BREAKER		BRANCH CIRCUIT CONDUIT & WIRING	CKT	PH	CKT	BRANCH CIRCUIT CONDUIT & WIRING	BREAKER		LOAD (KVA)			LOAD SERVED			
	A	B	C	AMP	POLE						AMP	POLE	A	B	C				
SLUDGE PUMP CONTROL PANEL		0.00		100	3	3#2, #8G, 2°C	1	A	2	3#6, #8G, 1°C	60	3	0.00		0.00	ROTARY FAN PRESS CONTROL PANEL			
MINI POWER CENTER L2 - 15KVA	0.00		0.00	30	3	3#10, #10G, 1°C	7	A	8	3#10, #10G, 1°C	30	3	0.00		0.00	MINI POWER CENTER L3 - 15 KVA			
SPARE			0.00	30	3		11	C	12		30	3	0.00		0.00				
SPARE			0.00	30	3		13	A	14		30	3	0.00		0.00				
SPARE			0.00	30	3		15	B	16		30	3	0.00		0.00	SPARE			
SPARE			0.00	30	3		17	C	18		30	3	0.00		0.00				
SPARE			0.00	30	3		19	A	20		30	3	0.00		0.00	SPARE			
SPARE			0.00	30	3		21	B	22		30	3	0.00		0.00	SPARE			
SPARE			0.00	30	3		23	C	24		30	3	0.00		0.00				
SPARE			0.00	30	3		25	A	26		30	3	0.00		0.00	SPARE			
SPARE			0.00	30	3		27	B	28		30	3	0.00		0.00	SPARE			
SPARE			0.00	30	3		29	C	30		30	3	0.00		0.00				
SPARE			0.00	30	3		31	A	32		30	3	0.00		0.00	SPARE			
SPARE			0.00	30	3		33	B	34		30	3	0.00		0.00	SPARE			
SPARE			0.00	30	3		35	C	36		30	3	0.00		0.00	SPARE			
TOTAL	0.00	0.00	0.00										0.00	0.00	0.00				
TOTAL BUS A LOAD:										0.00		KVA							
TOTAL BUS B LOAD:										0.00		KVA							
TOTAL BUS C LOAD:										0.00		KVA							
TOTAL CONNECTED KVA:													0.00						

SCHEDULE NOTES:

1. REFER TO SPECIFICATION SECTION 16442 PANELBOARDS FOR ADDITIONAL REQUIREMENTS.
2. ALL BUSSES SHALL BE PLATED COPPER.
3. ALL BREAKERS SHALL BE FULLY RATED.

PANEL: MINI POWER CENTER L3										ENCLOSURE: NEMA 3R			MAIN: 50A						
LOCATION: WAS PUMP STATION										VOLTS: 120/08V, 3 PHASE, 4 WIRE			NEUTRAL:						
										BRACING: 22,000A FULLY RATED			FEED:						
LOAD SERVED	LOAD (KVA)			BREAKER		BRANCH CIRCUIT CONDUIT & WIRING	CKT	PH	CKT	BRANCH CIRCUIT CONDUIT & WIRING	BREAKER		LOAD (KVA)			LOAD SERVED			
	A	B	C	AMP	POLE						AMP	POLE	A	B	C				
RECEPTACLES	0.00			20	1	3#10, #10G, 1°C	1	A	2		20	1	0.00			LIGHTS			
EXHAUST FAN		0.00		30	2	3#10, #10G, 1°C	3	B	4	3#10, #10G, 1°C	30	2	0.00		0.00	UNIT HEATER NO. 1			
HEAT TRACE	0.00			20	1		7	A	8	3#10, #10G, 1°C	30	2	0.00		0.00	UNIT HEATER NO. 1			
HEAT TRACE		0.00		20	1		9	B	10						0.00				
SPARE			0.00	20	1		11	C	12		20	1			0.00	SPARE			
TOTAL	0.00	0.00	0.00										0.00	0.00	0.00				
TOTAL BUS A LOAD:										0.00		KVA							
TOTAL BUS B LOAD:										0.00		KVA							
TOTAL BUS C LOAD:										0.00		KVA							
TOTAL CONNECTED KVA:													0.00						

SCHEDULE NOTES:

1. REFER TO SPECIFICATION SECTION 16442 PANELBOARDS FOR ADDITIONAL REQUIREMENTS.
2. ALL BUSSES SHALL BE PLATED COPPER.
3. ALL BREAKERS SHALL BE FULLY RATED.

POSTED FOR RECORD DOCUMENT

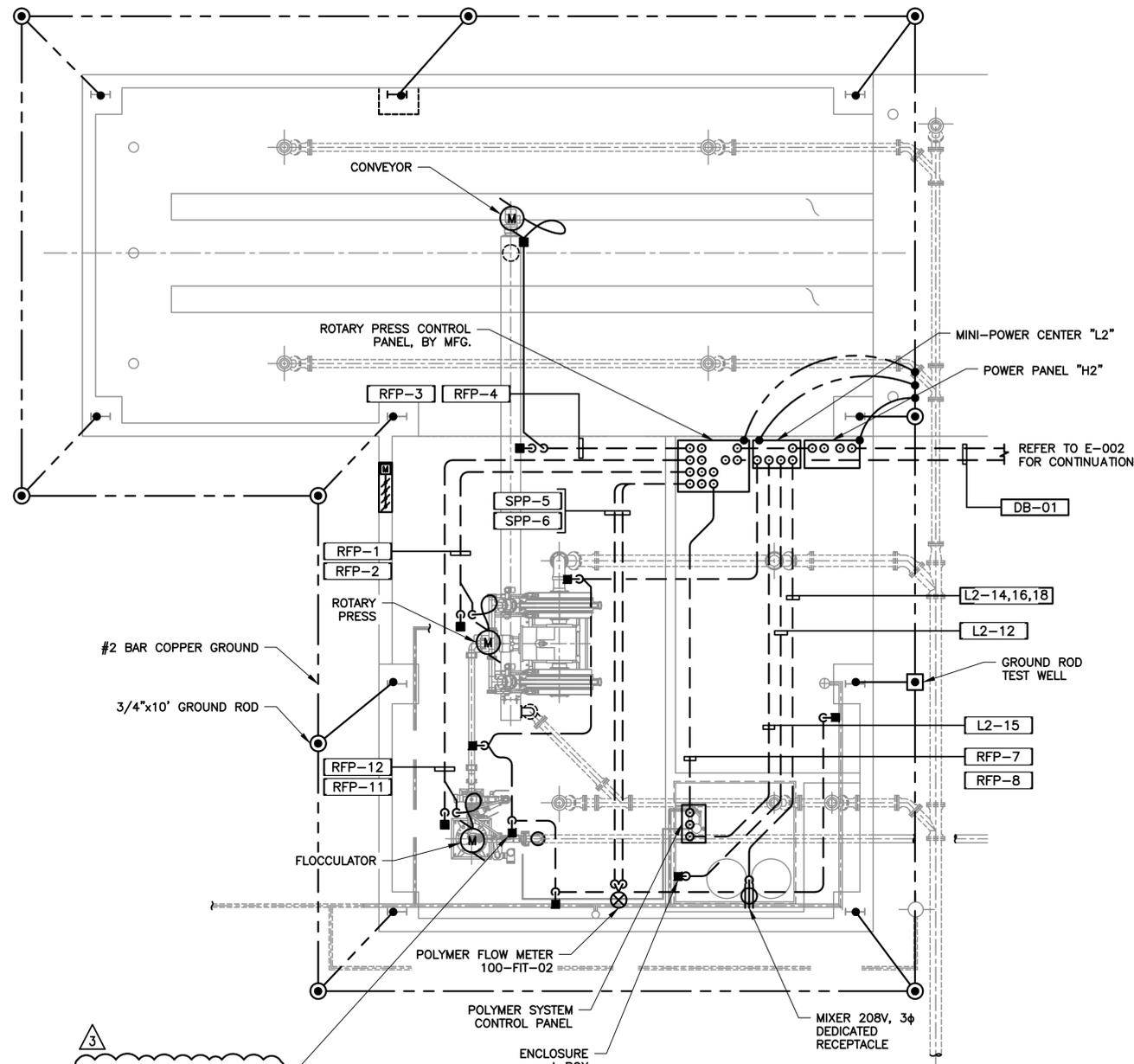
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ALAN PLUMMER ASSOCIATES, INC.
 TYPE FIRM F-13
 1349 EMPIRE CENTRAL, SUITE 1000
 DALLAS, TEXAS 75247-4066
 214-631-6100

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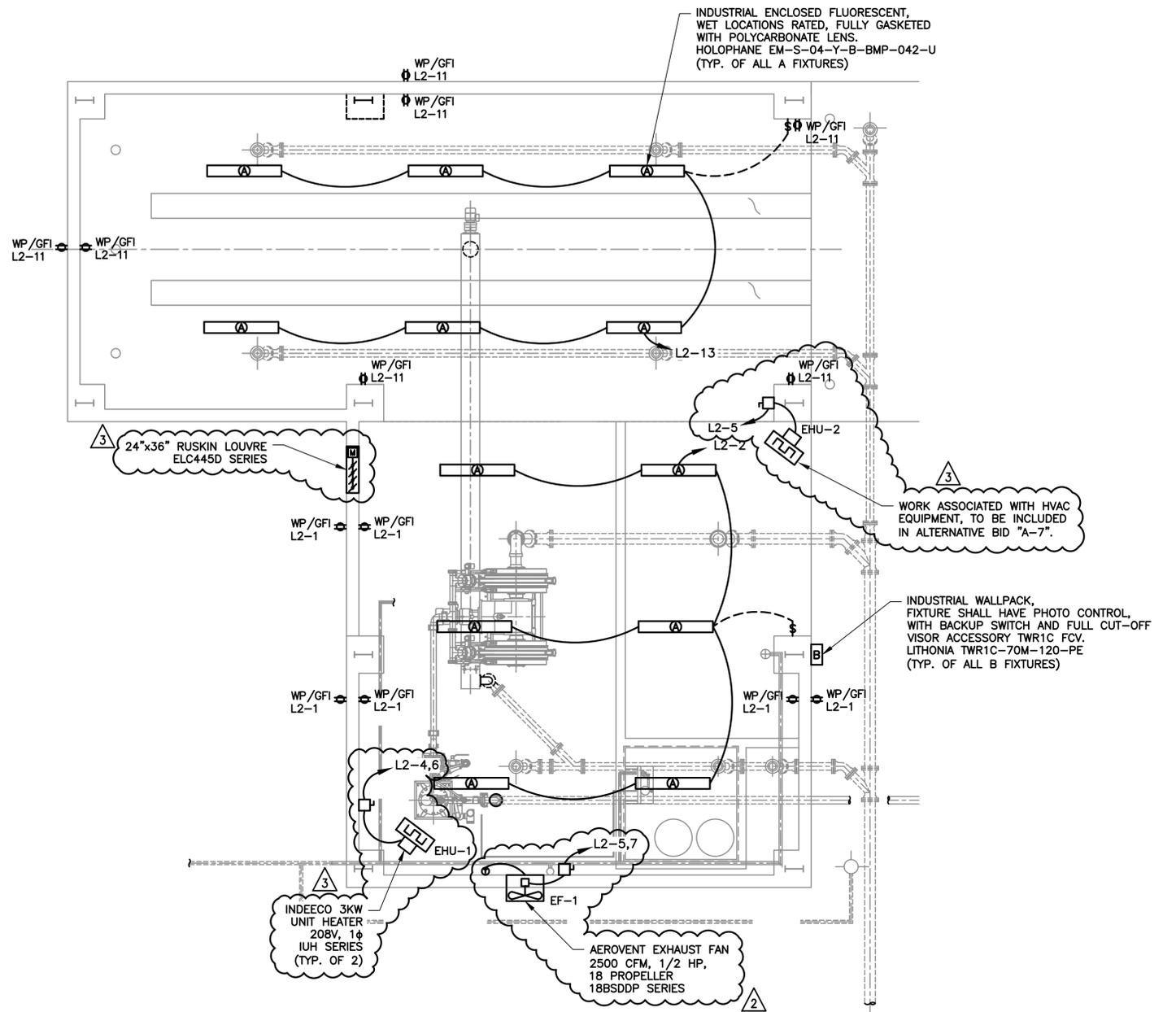
NO.	DATE	REVISION	DESIGNED BY	PDH		ALAN PLUMMER ASSOCIATES, INC. 1349 EMPIRE CENTRAL DRIVE, SUITE 1000 DALLAS, TEXAS 75247-4066 PHONE: 214-631-6100 FAX: 214-631-6109 TBPE REGISTRATION NO. F-13	CITY OF CELINA, TEXAS CELINA WASTEWATER TREATMENT PLANT SLUDGE DEWATERING IMPROVEMENTS	ELECTRICAL CONNECTION DIAGRAM AND SCHEDULES	Seq. 36 of 43 Dwg. No. E-004
1	01/15	ISSUED FOR RECORD	FJC						
2	10/12	NOT IN THIS CONTRACT	FJC						
3	9/12	REPLACED SHEET PER ADDENDUM AD5	PDH						
BY			REVIEWED BY	PNM					

REFERENCES: Celina-TL1BLK.dwg, M-200
 Feb 26, 2015 - 11:38am \\dai\apal\share\Projects\0856\003-01\ADDENDA\ADDENDUM_NO_4\Acad\ELECTRICAL\E-200 ROTARY FAN PRESS PLAN.dwg LAYOUT: ROTARY FAN PRESS PLAN USER:



POWER PLAN

SCALE: 1/4" = 1'-0"



LIGHTING PLAN

SCALE: 1/4" = 1'-0"



3 NEMA 4X SS J-BOXES FOR HEAT TRACE. WIRING AND INSTALL FOR HEAT TRACE SHALL NOT BE INCLUDED IN ALTERNATIVE BID "A-7". CONDUIT SHALL BE INCLUDED IN BOTH BIDS.

3 WORK ASSOCIATED WITH HVAC EQUIPMENT, TO BE INCLUDED IN ALTERNATIVE BID "A-7".

INDUSTRIAL WALLPACK, FIXTURE SHALL HAVE PHOTO CONTROL, WITH BACKUP SWITCH AND FULL CUT-OFF VISOR ACCESSORY TWR1C FCV, LITHONIA TWR1C-70M-120-PE (TYP. OF ALL B FIXTURES)

3 INDEECO 3KW UNIT HEATER 208V, 1φ IUH SERIES (TYP. OF 2)

2 AEROVENT EXHAUST FAN 2500 CFM, 1/2 HP, 18 PROPPELLER 18BSDDP SERIES

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 1349 EMPIRE CENTRAL, SUITE 1000
 DALLAS, TEXAS 75247-4066
 214-631-6100

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NO.	DATE	REVISION	BY
1	01/15	ISSUED FOR RECORD	FJC
2	11/14	PER CHANGE ORDER CO-006	FJC
3	07/14	PER CHANGE ORDER CO-005	FJC
4	9/12	REPLACED SHEET PER ADDENDUM AD5	PDH

DESIGNED BY PDH
 DRAWN BY PDH
 CHECKED BY PNM
 REVIEWED BY PNM

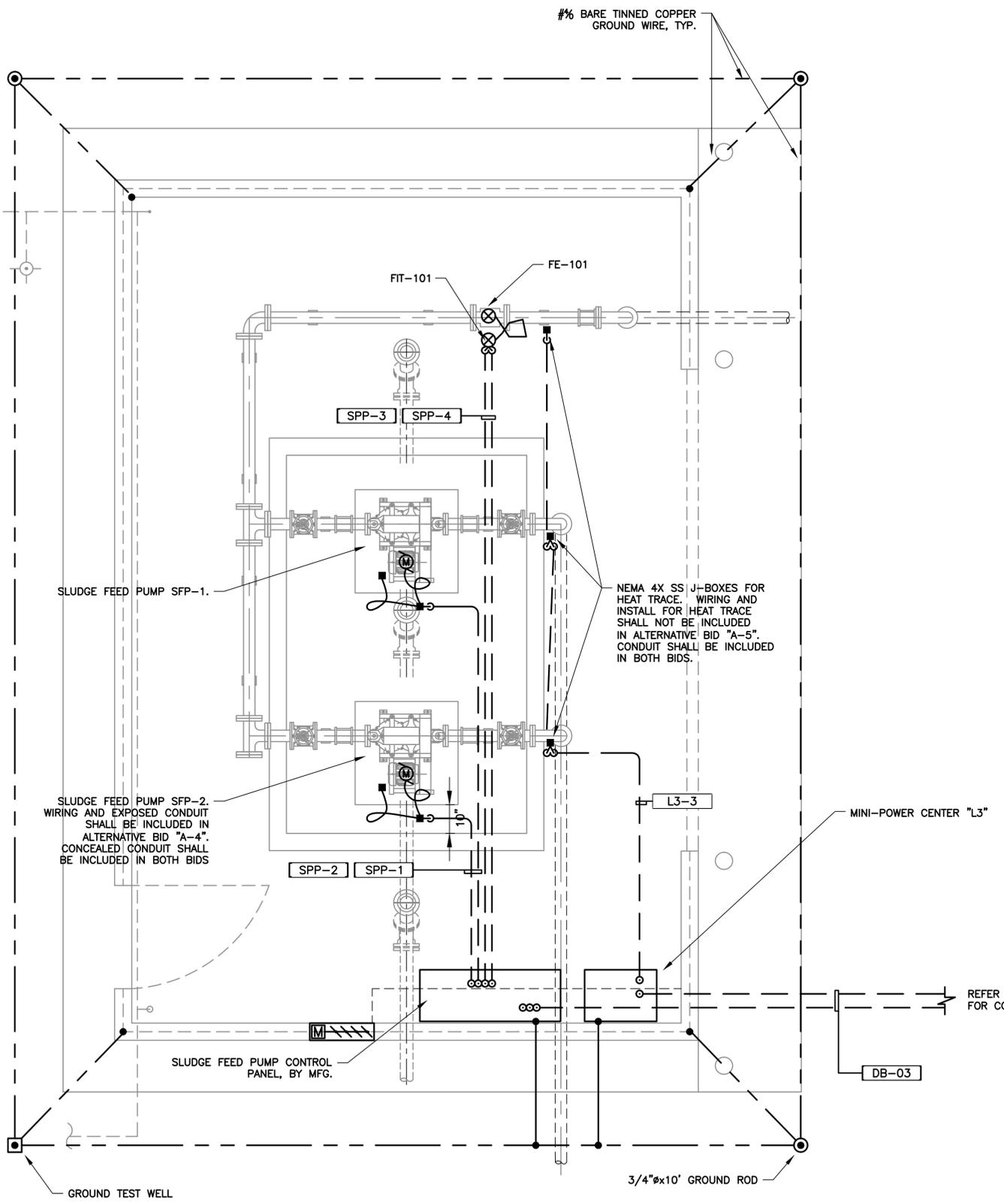
ALAN PLUMMER ASSOCIATES, INC.
 1349 EMPIRE CENTRAL DRIVE, SUITE 1000
 DALLAS, TEXAS 75247-4066
 PHONE: 214-631-6100 FAX: 214-631-6109
 TBPE REGISTRATION NO. F-13

CITY OF CELINA, TEXAS
 CELINA WASTEWATER TREATMENT PLANT
 SLUDGE DEWATERING IMPROVEMENTS

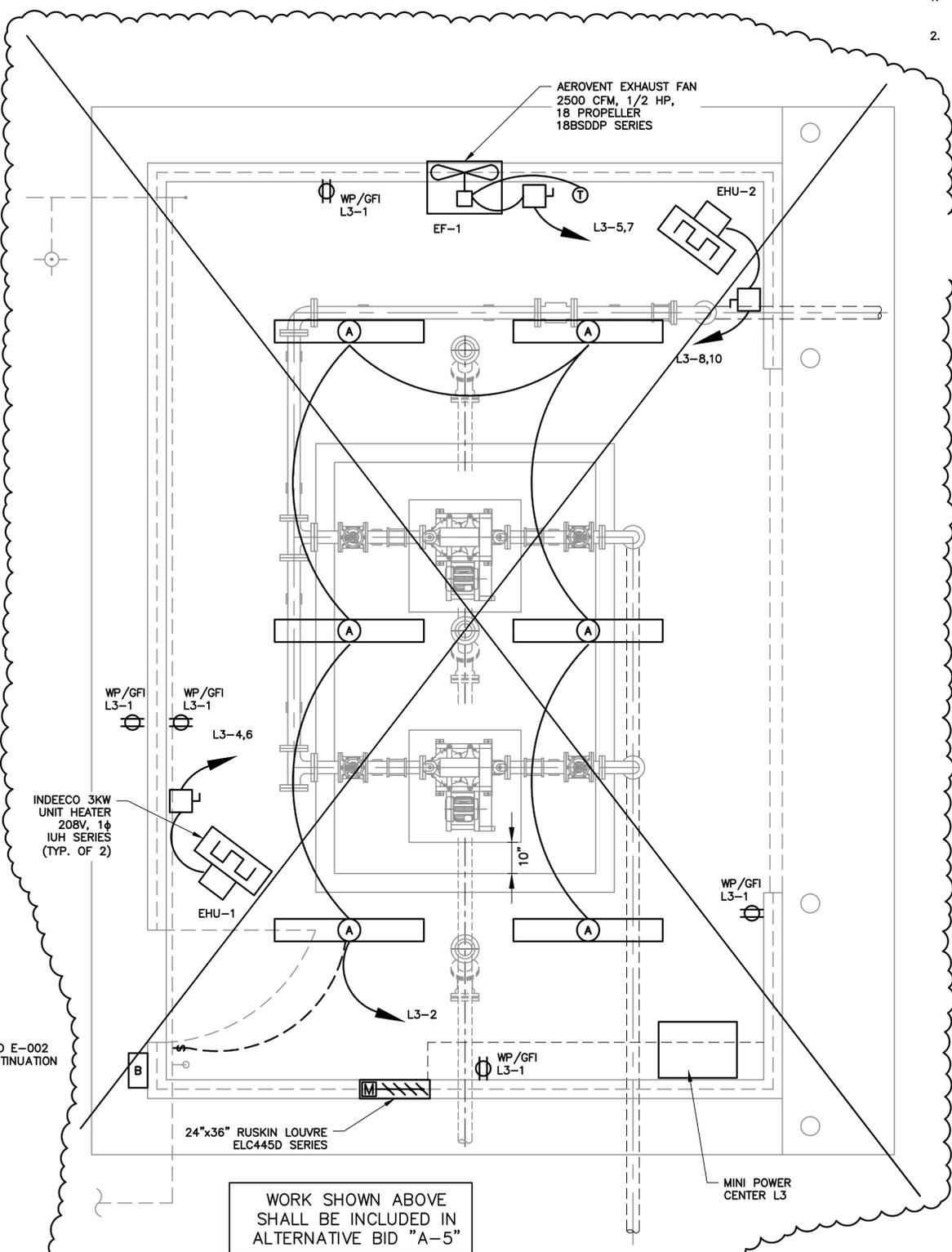
ELECTRICAL
ROTARY FAN PRESS PLAN

Seq. 37 of 43
 Dwg. No. E-200
 0856-003-01

REFERENCES: Ceiling-TL1BLK.dwg, M-300
 Feb 26, 2015 - 11:37am \\dai.dai.apa\share\Projects\0856\003-01\ADDENDA\ADDENDUM_NO_4\Acad\ELECTRICAL\E-300 WAS PUMP STATION PLAN.dwg LAYOUT: WAS PUMP STATION PLAN USER:



POWER PLAN
 1/2"=1'-0"



LIGHTING PLAN
 1/2"=1'-0"

- GENERAL NOTES:**
1. ALL JUNCTION BOXES AND ENCLOSURES SHALL BE NEMA 4X STAINLESS STEEL.
 2. BASE BID SHALL INCLUDE WP/GFI RECEPTACLE AND ENCLOSED AND GASKETED FIXTURE AT SWITCHRACK.

NOT IN THIS CONTRACT

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NO.	DATE	REVISION	BY
1	01/15	ISSUED FOR RECORD	FJC
2	10/12	NOT IN THE CONTRACT	FJC
3	9/12	REPLACED SHEET PER ADDENDUM AD5	PDH

DESIGNED BY PDH
 DRAWN BY PDH
 CHECKED BY PNM
 REVIEWED BY PNM

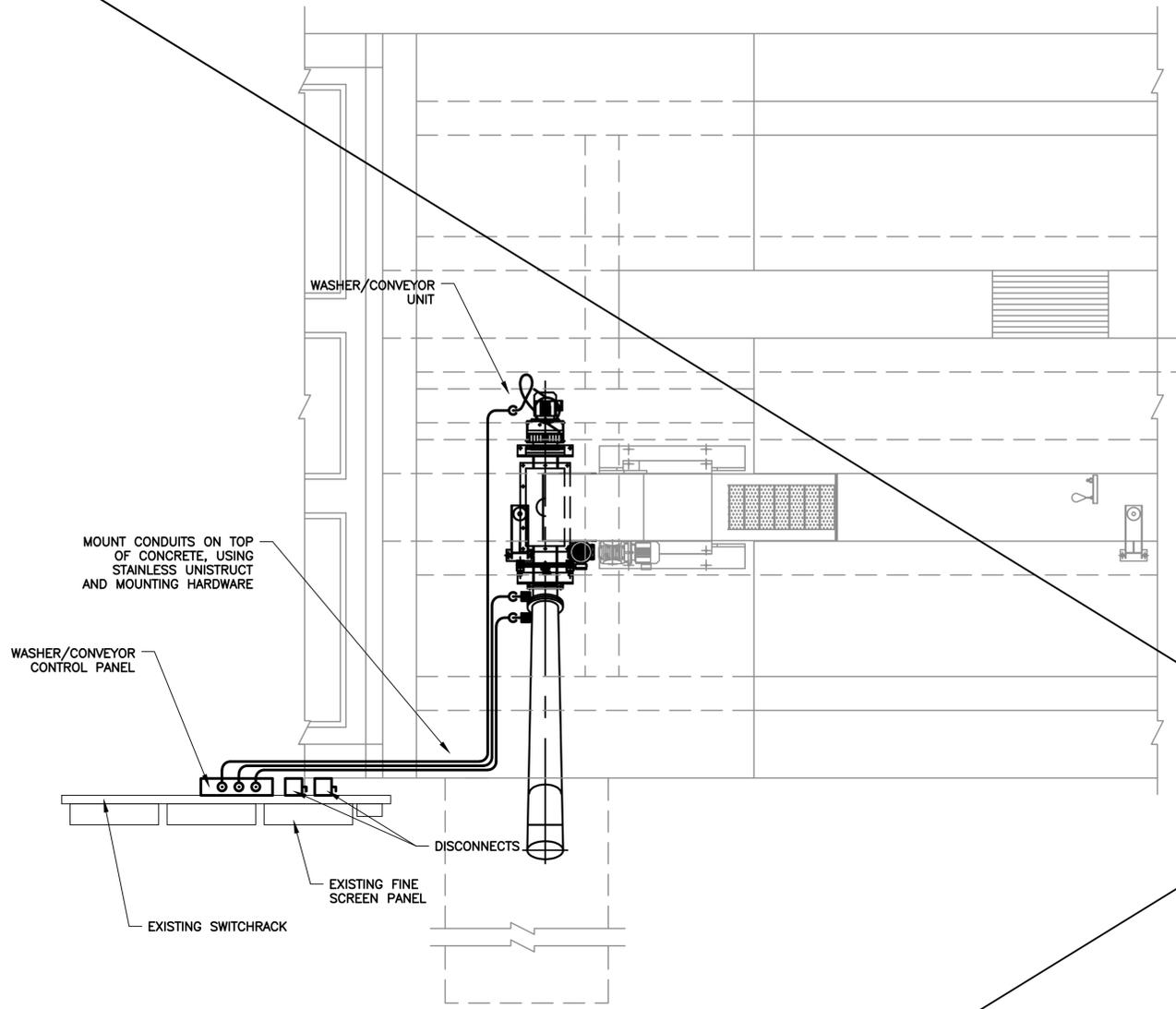
ALAN PLUMMER ASSOCIATES, INC.
 ENVIRONMENTAL ENGINEERS AND SCIENTISTS

ALAN PLUMMER ASSOCIATES, INC.
 1349 EMPIRE CENTRAL DRIVE, SUITE 1000
 DALLAS, TEXAS 75247-4066
 PHONE: 214-631-6100 FAX: 214-631-6109
 TBPE REGISTRATION NO. F-13

CITY OF CELINA, TEXAS
 CELINA WASTEWATER TREATMENT PLANT
 SLUDGE DEWATERING IMPROVEMENTS

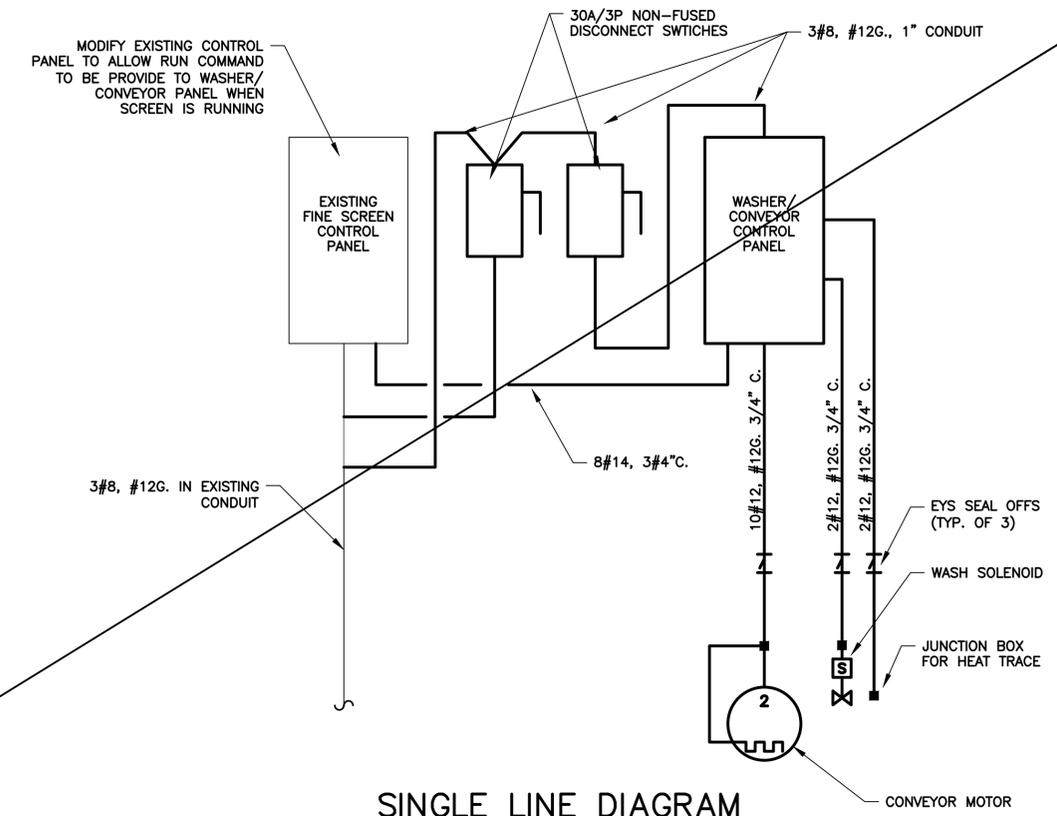
ELECTRICAL WAS PUMP STATION PLAN

REFERENCES: Ceiling-TLBUK.dwg, M-400
 Feb 26, 2015 - 11:36am \\def.dai\apal\share\Projects\0856\003-01\ADDENDA\ADDENDUM_NO_4\Acad\ELECTRICAL\E-400 COMPACTOR & CONVEYOR PLAN.dwg LAYOUT: COMPACTOR & CONVEYOR PLAN USER:



POWER PLAN
 SCALE: 1/16" = 1'-0"

NOT IN THIS CONTRACT



SINGLE LINE DIAGRAM
 SCALE: N.T.S.



EXISTING SWITCHRACK
 SCALE: N.T.S.

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2	10/12	NOT IN THIS CONTRACT	FJC
3	9/12	REPLACED SHEET PER ADDENDUM AD5	PDH

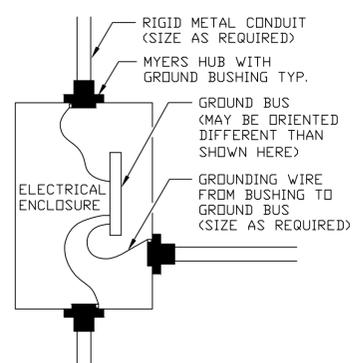
ALAN PLUMMER ASSOCIATES, INC.
 ENVIRONMENTAL ENGINEERS AND SCIENTISTS

ALAN PLUMMER ASSOCIATES, INC.
 1349 EMPIRE CENTRAL DRIVE, SUITE 1000
 DALLAS, TEXAS 75247-4066
 PHONE: 214-631-6100 FAX: 214-631-6109
 TBPE REGISTRATION NO. F-13

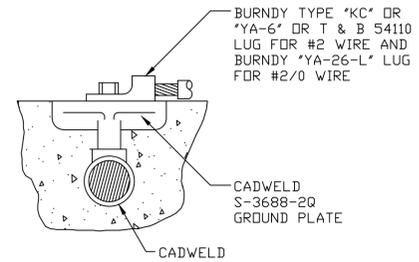
CITY OF CELINA, TEXAS
 CELINA WASTEWATER TREATMENT PLANT
 SLUDGE DEWATERING IMPROVEMENTS

ELECTRICAL COMPACTOR & CONVEYOR PLAN

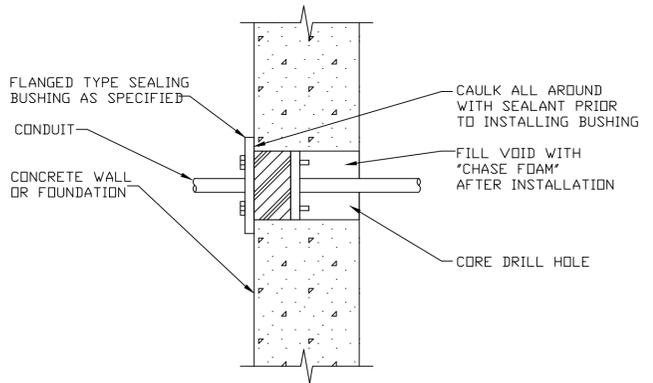
REFERENCES: Ceiling-TLBUK.dwg M-400
 Feb 26, 2015 - 11:35am \\dai.dai\apal\share\Projects\0856\003-01\ADDENDA\ADDENDUM_NO_4.dwg\ELECTRICAL\E-900 ELECTRICAL DETAILS 1.dwg LAYOUT: ELECTRICAL DETAILS 1 USER:



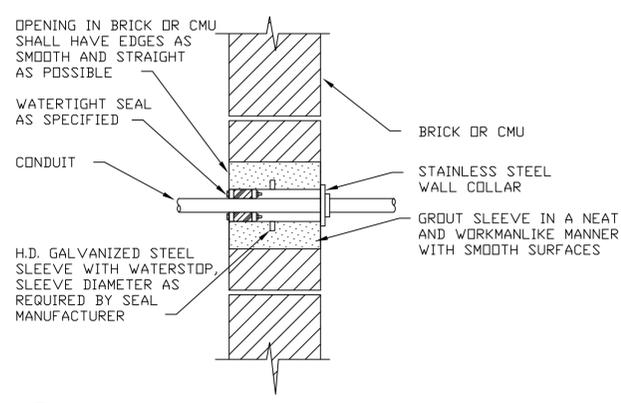
E01 CONDUIT GROUNDING AT ENCLOSURES
SCALE: N.T.S.



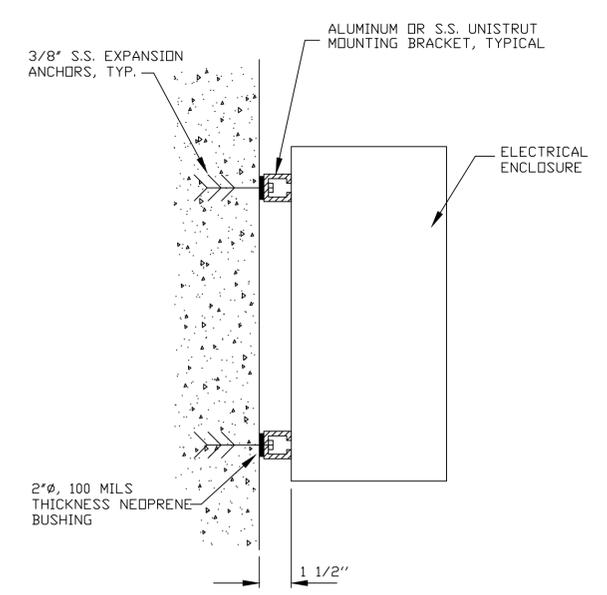
E02 GROUNDING PAD IN SLAB
SCALE: N.T.S.



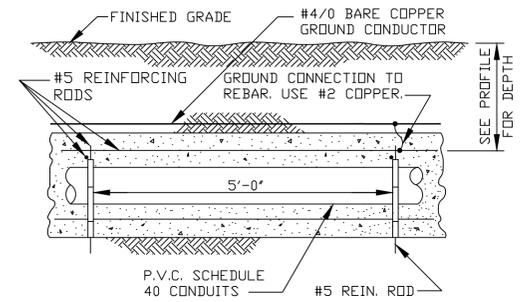
E03 WATERTIGHT CONDUIT PENETRATION
SCALE: N.T.S.



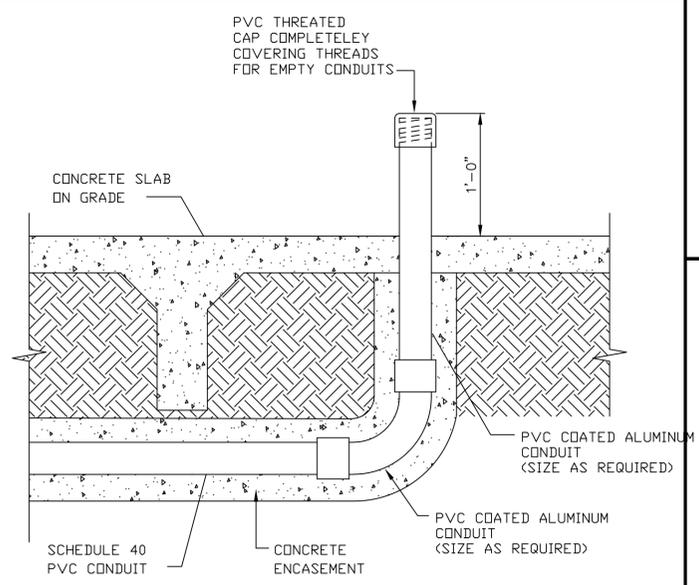
E04 BRICK/CMU CONDUIT ENTRY SEAL
SCALE: N.T.S.



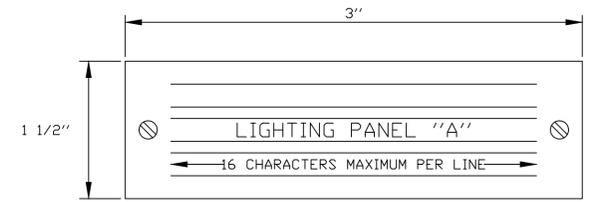
E05 EQUIPMENT WALL MOUNTING DETAIL
SCALE: N.T.S.



E06 PROFILE OF SPACERS
SCALE: N.T.S.

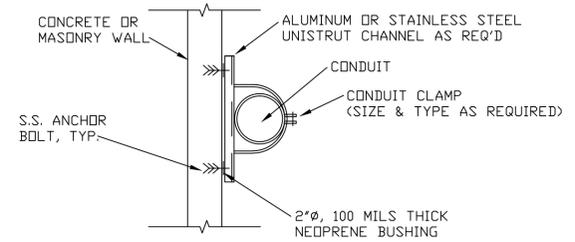


E07 CONCRETE CONDUIT PENETRATION
SCALE: N.T.S.

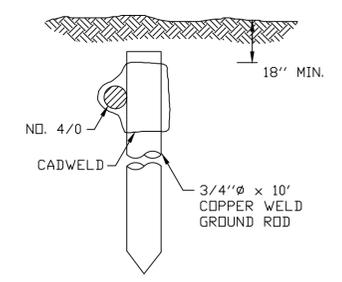


- NOTES:
1. NAMEPLATES TO BE FABRICATED FROM LAMACOID PLASTIC WITH WHITE OUTER LAMINATIONS AND A BLACK INNER LAMINATION.
 2. LETTERING ENGRAVING SHALL BE 3/16\"
 3. EACH LINE OF LETTERING TO BE CENTERED ON NAMEPLATE.
 4. ATTACH NAMEPLATES ON EQUIPMENT IN A PROMINENT PLACE. USE TWO SMALL S.S. SHEET METAL SCREWS FOR ALL ENCLOSURES EXCEPT FOR NEMA 4X ENCLOSURES. REMOVE ALL PAINT AND CLEAN MOUNTING SURFACES FOR MOUNTING NAMEPLATE WITH A CONTACT BOND CEMENT FOR SEALED AND NEMA 4X ENCLOSURES.

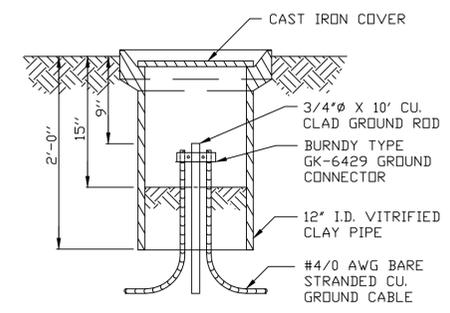
E08 NAMEPLATE DETAIL
SCALE: N.T.S.



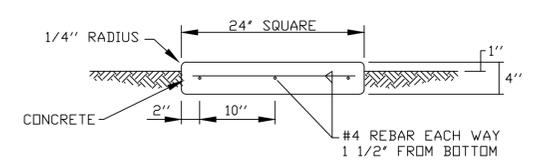
E09 CONDUIT SUPPORT
SCALE: N.T.S.



E10 GROUNDING ROD
SCALE: N.T.S.

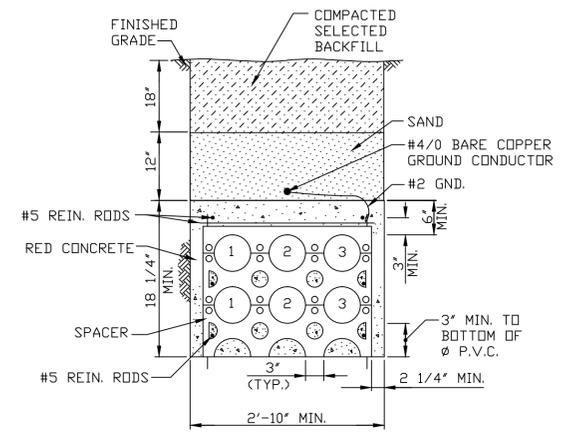


E11 GROUND TEST WELL
SCALE: N.T.S.



LETTER STROKES SHALL BE 1/2\"

E12 CONDUIT MARKER DETAIL
SCALE: N.T.S.



- NOTES:
1. CONDUIT TO BE P.V.C. CONDUIT TYPE 40 FOR CONCRETE ENCASEMENT, SIZE AND NUMBER AS INDICATED ON DRAWING.
 2. CONCRETE ENCASEMENT: ALL CONCRETE TO HAVE COMPRESSIVE STRENGTH OF 2800 P.S.I. AT 28 DAYS. NO AGGREGATE LARGER THAN 3/4\"
 3. INSTALL SPACERS EVERY 5 FEET. ALL SPACERS TO PROVIDE 3\"
 4. INSTALL #5 STEEL REINFORCING RODS THROUGH THE INTERNAL VERTICAL CHANNELS AT BOTH OUTER EDGES OF SPACER AND DRIVE REINFORCING RODS INTO EARTH TO ANCHOR ASSEMBLY.
 5. INSTALL #5 STEEL REINFORCING RODS ACROSS TOP OF CAP AND IN EACH CORNER OF THE CONCRETE ENCASEMENT.
 6. TIE HORIZONTAL AND VERTICAL RODS TOGETHER WITH #16 STEEL TIE WIRE.
 7. GROUND THE STEEL REINFORCING RODS AT 20 FEET SPANS MAXIMUM. CONNECT TO 4/0 GROUND CONDUCTOR ON TOP OF DUCT BANK.

E13 ELECTRICAL CONDUIT SPACER FOR U/G CONDUITS BANK
SCALE: N.T.S.

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 1349 EMPIRE CENTRAL, SUITE 1000
 DALLAS, TEXAS 75247-4066
 214-631-6100

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NO.	DATE	REVISION	BY
01/15		ISSUED FOR RECORD	FJC
09/12		REPLACED SHEET PER ADDENDUM AD5	PDH

DESIGNED BY	PDH
DRAWN BY	PDH
CHECKED BY	PNM
REVIEWED BY	PNM



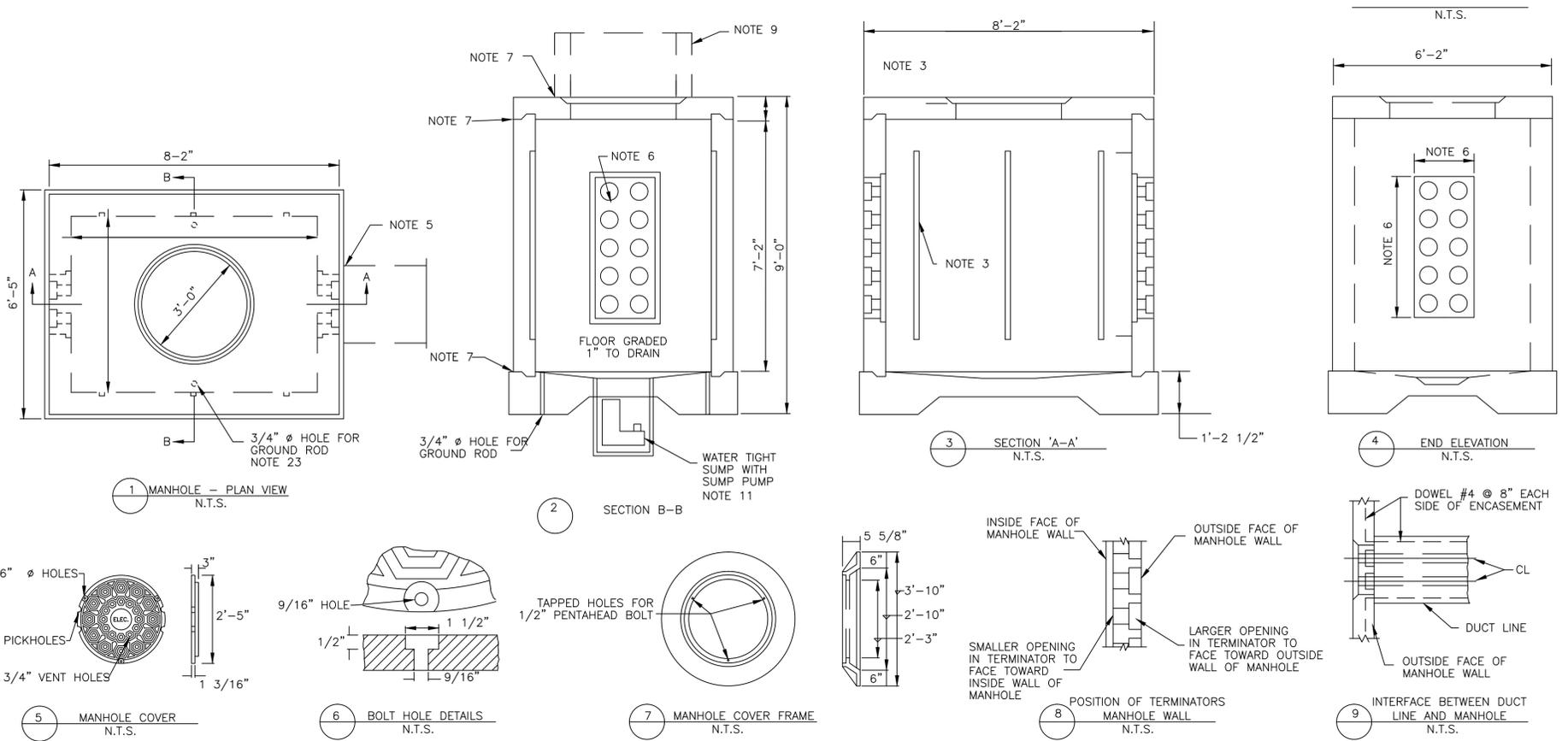
ALAN PLUMMER ASSOCIATES, INC.
 1349 EMPIRE CENTRAL DRIVE, SUITE 1000
 DALLAS, TEXAS 75247-4066
 PHONE: 214-631-6100 FAX: 214-631-6109
 TBPE REGISTRATION NO. F-13

CITY OF CELINA, TEXAS
 CELINA WASTEWATER TREATMENT PLANT
 SLUDGE DEWATERING IMPROVEMENTS

ELECTRICAL
 ELECTRICAL DETAILS I

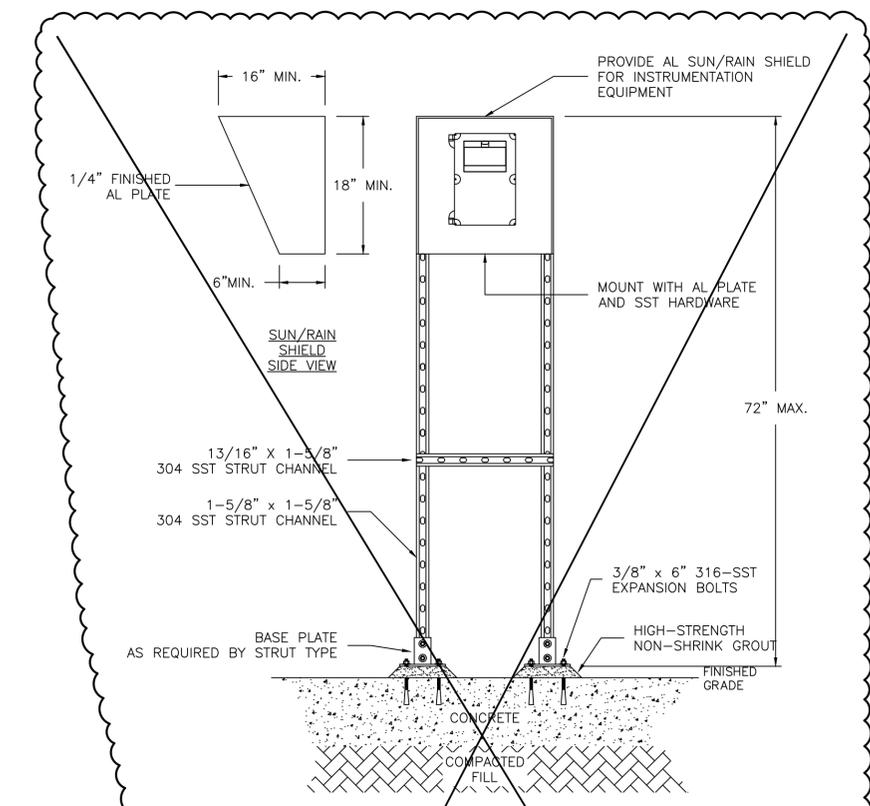
Seq. 40 of 43
 Dwg. No. E-900
 0856-003-01

REFERENCES: Ceiling-TL1BLK.dwg, M-400, Feb 26, 2015 - 11:41am \\def.dal.apal\share\Projects\0856\003-01\ADDENDA\ADDENDUM_NO_4\Acad\ELECTRICAL\E-901 ELECTRICAL DETAILS II.dwg LAYOUT: ELECTRICAL DETAILS II USER:



- NOTES:**
- INTERIOR DIMENSIONS OF THE MANHOLE SHALL BE DETERMINED BY THE CONTRACTOR IF NOT SPECIFIED ON THE CONTRACT DRAWINGS.
 - THIS MANHOLE DESIGNED TO CARRY H-20 BRIDGE LOADING PLUS 15'-0" EARTH COVER, MANHOLE NECK OF 36" DIA., 4" THICK CONCRETE PIPE, AND 510 POUND FRAME AND COVER. THE LOADING ASSUMES A GROUND WATER LEVEL 5'-0" BELOW FINISHED GRADE. LOADINGS MORE SEVERE THAN DESIGN LOADINGS ARE TO BE SUBMITTED TO THE ENGINEER.
 - THIS MANHOLE SUPPLIED WITH 3 UNISTRUT P-3200 SERIES CHANNELS WITH CONCRETE INSERTS OR EQUAL IN EACH WALL. CHANNEL IS 1 5/8" WIDE, 1 3/8" DEEP, AND 5'-4" LONG, ALUMINUM/S.S. WITH ENDS CAPPED CHANNEL EMBEDDED FLUSH WITH INSIDE WALL OF MANHOLE WITH OPENING IN CHANNEL FACING OUTWARD.
 - MANHOLES SUPPLIED BY HEFNER PRODUCTS REQUIRE 1 1/4"x6" SQUARE HEAD COIL BOLT (4 EACH) AND 1 1/4" SWIVEL LIFT. MANHOLES SUPPLIED BY TEXAS INDUSTRIES SHALL BE WITH LIFTING LOOPS.
 - SEE DRAWING 5 FOR INTERFACE BETWEEN DUCT LINE AND MANHOLE, PULLING-IN IRONS, AND TERMINATOR POSITION IN MANHOLE WALL.
 - SEE SECTION B-B FOR TERMINATOR DETAIL AND DIMENSIONS.
 - MANHOLE JOINTS BETWEEN SECTIONS AND JOINT FOR MANHOLE NECK TO BE PRIMED WITH RAM-NEK PRIMER OR APPROVED EQUAL BY MANHOLE SUPPLIER. MANHOLE JOINTS ARE TO BE MADE WATERTIGHT BY USING RAM-NEK PREFORMED SEALANT WHEN INSTALLING MANHOLE.
 - PLUG ALL DUCT TERMINATOR OPENINGS FROM THE INSIDE OF THE MANHOLE WITH EXPANDABLE DUCT STOPPERS.
 - SEE SECTION 'C-C' AND 'D-D' FOR MANHOLE NECK INSTALLATION.
 - ALL ELECTRIC DUCT BANK MANHOLES SHALL BE HEFNER PRECAST CONCRETE MANHOLES OR ONE OF EQUAL DESIGN APPROVED BY THE ENGINEER.
 - PROVIDE 18" DIAMETER CONCRETE BOTTOM SUMP WITH A SUBMERSIBLE SUMP PUMP AND ALUMINUM GRATING ON TOP OF SUMP. THE SUMP PUMP DISCHARGE PIPING SHALL BE 1" DIA. PVC SCHEDULE 80, WITH VALVES, CHECKS, UNION, ETC. AS REQUIRED. INSTALL ELECTRICAL FOR CLASS I, GROUP D CLASSIFICATION.
 - STACKS SHALL CONSIST OF PRECAST REINFORCED CONCRETE PIPE SECTIONS CONFORMING TO THE REQUIREMENTS OF ASTM DESIGNATION: C76 HAVING A MINIMUM WALL THICKNESS OF 4". CLASS OF PIPE SHALL BE AS REQUIRED FOR LATERAL PRESSURES RESULTING FROM EARTH LOADS IN COMBINATION WITH H-20 HIGHWAY LOADING (MIN. CLASS II). JOINTS SHALL CONSIST OF A MACHINE TONGUE-AND-GROOVE ARRANGEMENT WITH SEALANT AS SPECIFIED BELOW. WHERE THE DISTANCE FROM THE BOTTOM OF THE MANHOLE ROOF SLAB TO FINISH GRADE EXCEEDS 24", MANHOLE LADDER AS SPECIFIED SHALL BE PROVIDED. SPECIAL LENGTH SECTIONS SHALL BE PROVIDED AS REQUIRED.
 - JOINT SEALANT SHALL BE A FLEXIBLE, PLASTIC, PERMANENTLY ADHESIVE COMPOUND EQUAL TO "RAM-NEK" AS MANUFACTURED BY K.T. SNYDER CO., APPLIED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
 - LADDER SHALL BE ATTACHED TO MANHOLE NET BY THE USE OF STAINLESS STEEL KWIK-BOLT CONCRETE ANCHORS. THE BOLT SHALL BE 1/2" IN DIAMETER AND 3 3/4" IN LENGTH WITH CATALOG #12-334.
 - LADDER CAN BE MADE TO SPECIFICATIONS BY UNISTRUT TEXAS, INC., OR PROVIDED BY HEFNER PRECAST CONCRETE.
 - MANHOLE NECK CAN BE MADE TO SPECIFICATIONS BY BROOKS PRODUCTS INCORPORATED.
 - LADDER TO BE DESIGNED TO THE SPECIFICATIONS IN THE LATEST REVISION OF AMERICAN NATIONAL STANDARDS INSTITUTE PUBLICATION A14.3 "SAFETY REQUIREMENTS FOR FIXED LADDERS."
 - LADDER TO FURNISH WITH SUPPORTS.
 - LADDER TO HAVE ALL OPEN ENDS CAPPED AND ENTIRE LADDER ASSEMBLY INCLUDING SUPPORTS TO BE HOT DIP GALVANIZED AFTER FABRICATION BY MANUFACTURER.
 - THE APPROXIMATE WEIGHT OF FRAME AND COVER IS 510 POUNDS.
 - FRAME AND COVER COMPLETE WITH STAINLESS STEEL PENTAHEAD BOLTS.
 - COVER TO HAVE 12 3/4" VENT HOLES.
 - GROUND ROD SHALL BE INSTALLED BY CONTRACTOR.

E13 PRE-CAST MANHOLE DETAIL
SCALE: N.T.S.



- NOTES:**
- FILE AND ROUND ALL CORNERS SMOOTH, REAM ALL HOLES.
 - USE 316-SST FASTENERS AND HARDWARE.
 - PROVIDE A MINIMUM OF 12" DIA X 36" DEEP 3000 PSI CONCRETE BASES FOR ALL VERTICAL SUPPORTS IF NO FLOOR OR STRUCTURE IS PRESENT. EXTEND CONCRETE 4" ABOVE FINISHED GRADE.
 - USE THE FOLLOWING CHANNEL TYPES AS DESCRIBED:
 - MOUNTING EQUIPMENT LESS THAN 100LBS - USE SINGLE SIDED STRUT, B-LINE B22 OR EQUAL.
 - MOUNTING EQUIPMENT GREATER THAN 100LBS - USE DOUBLE SIDED, EXTRUDED "H" STRUT, B-LINE B22A OR EQUAL.
 - PROVIDE ADDITIONAL VERTICAL SUPPORTS, BASES, ETC., SIMILAR TO THOSE SHOWN, FOR SPANNING DISTANCES GREATER THAN 4'.

E14 FLOW TRANSMITTER MOUNTING
SCALE: N.T.S.

NOT IN THIS CONTRACT

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DALLAS, TEXAS 75247-4066
214-631-6100

THIS SEAL THAT ORIGINALLY APPEARED ON THIS DOCUMENT WAS AUTHORIZED BY PATRICK N. MOSELEY, TEXAS NO. 72794 ON 09/18/2012. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION OF THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

NO.	DATE	REVISION	BY
1	01/15	ISSUED FOR RECORD	FJC
2	10/12	NOT IN THIS CONTRACT	FJC
3	9/12	REPLACED SHEET PER ADDENDUM AD5	PDH

DESIGNED BY PDH
DRAWN BY PDH
CHECKED BY PNM
REVIEWED BY PNM

ALAN PLUMMER ASSOCIATES, INC.
ENVIRONMENTAL ENGINEERS AND SCIENTISTS
ALAN PLUMMER ASSOCIATES, INC.
1349 EMPIRE CENTRAL DRIVE, SUITE 1000
DALLAS, TEXAS 75247-4066
PHONE: 214-631-6100 FAX: 214-631-6109
TBPE REGISTRATION NO. F-13

CITY OF CELINA, TEXAS
CELINA WASTEWATER TREATMENT PLANT
SLUDGE DEWATERING IMPROVEMENTS

ELECTRICAL ELECTRICAL DETAILS II
Seq. 41 of 43
Dwg. No. E-901
0856-003-01

FO-001

ALAN PLUMMER ASSOCIATES, INC.

FIELD ORDER

OWNER: CITY OF CELINA 0856-003-01
 PROJECT: WWTP Sludge Dewatering Improvements
 CONTRACTOR: Meta Contracting, Inc.
 ENGINEER: Alan Plummer Associates, Inc.
 FIELD ORDER NO.: FO-001 DESCRIPTION: WAS PS Slab Conflict

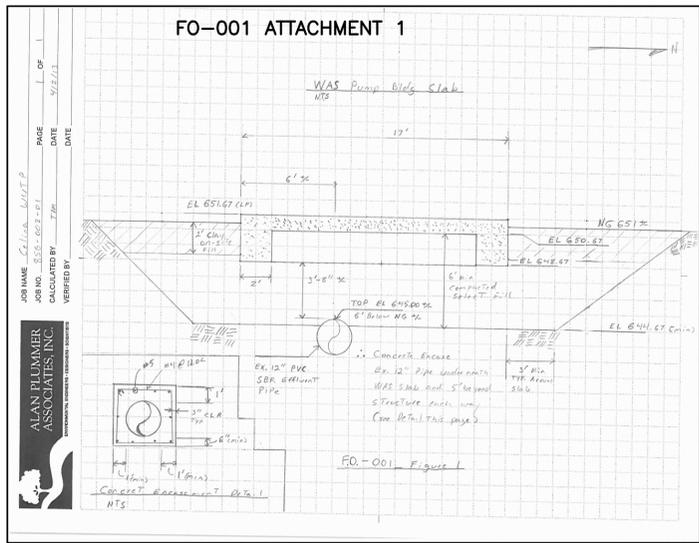
The Contractor is hereby directed as set forth below. These Field Order work instructions are issued pursuant to the General Conditions and Supplementary Conditions in the Contract Documents. It is the Engineer's opinion that this Field Order does not alter the Contract Price or the Contract Time. The Contractor must notify the Engineer prior to commencing work should he/she disagree with the Engineer's opinion and request a Change Order.

FIELD ORDER WORK TO BE PERFORMED

The 12" SBR effluent pipe is not in the location it was indicated to be on the record drawings of the WWTP. The actual location of this pipe places it directly under the WAS Pump Station slab now under construction. The pipe is approximately 2.4' below grade. Moving the slab back to its proposed location conflicts with an electrical duct that runs south to the plant road for the top of most of the emergency flow equalization basin creating a potential run-over hazard for large trucks. Removing the pipe out from under the slab while preferable for maintenance reasons would require dewatering of the existing pipe and shut down of the SBR outflowing plant operations. At the preference of the City in order to minimize the delay to construction and to avoid potential litigation to plant operations it has been decided to concrete encase the existing 12-inch SBR effluent pipe and construct the WAS pump station slab over it.

- 1) Location of WAS Pump Station slab shall be as indicated on the plans.
- 2) Concrete encase the portion of the existing 12" SBR effluent pipe under the WAS PS slab and to 5-ft beyond the edge of slab in each direction.
- 3) Concrete encasement and reinforcing steel shall be per the detail attached to this FO (Figure 1). Concrete shall be a minimum of 3000 psi.
- 4) Back fill and connection can begin after the concrete has cured 7 days or reaches 2/3 strength.
- 5) The existing pipe is an active gravity flow pipe under surcharge (pressure) conditions. The contractor shall protect and support the pipe from puncture, leakage and distortion at all times.

PREPARED BY: *[Signature]* 4/23/13 DATE
 Tasha Matham, P.E.



FO-002

ALAN PLUMMER ASSOCIATES, INC.

FIELD ORDER

OWNER: CITY OF CELINA 0856-003-01
 PROJECT: WWTP Sludge Dewatering Improvements
 CONTRACTOR: Meta Contracting, Inc.
 ENGINEER: Alan Plummer Associates, Inc.
 FIELD ORDER NO.: FO-002 DESCRIPTION: Sludge Dewatering Building Drain Lines Slope

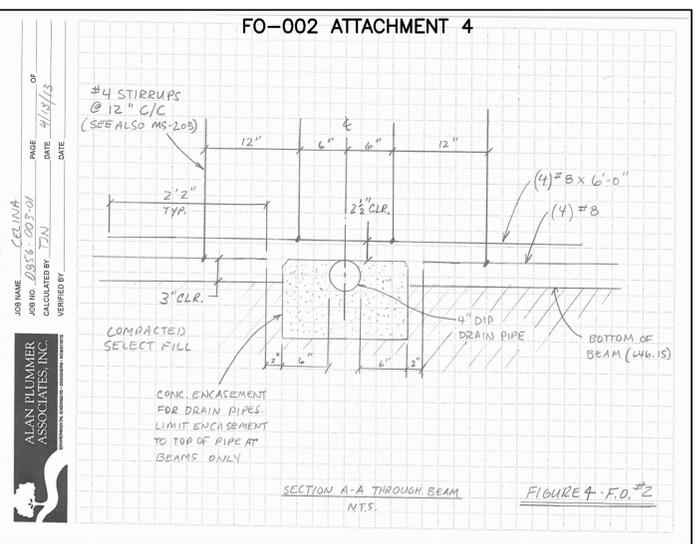
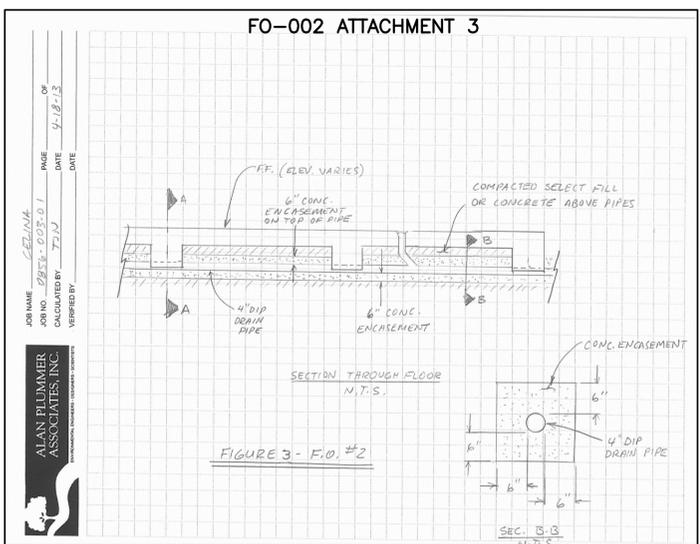
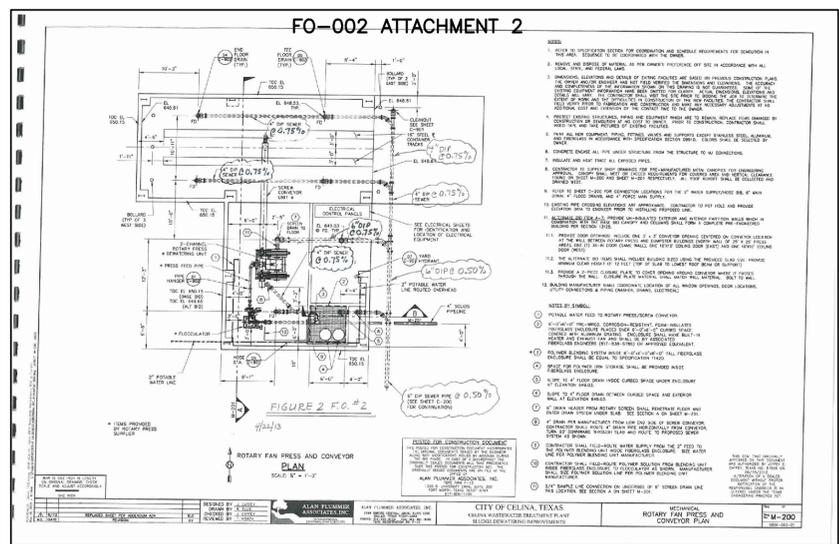
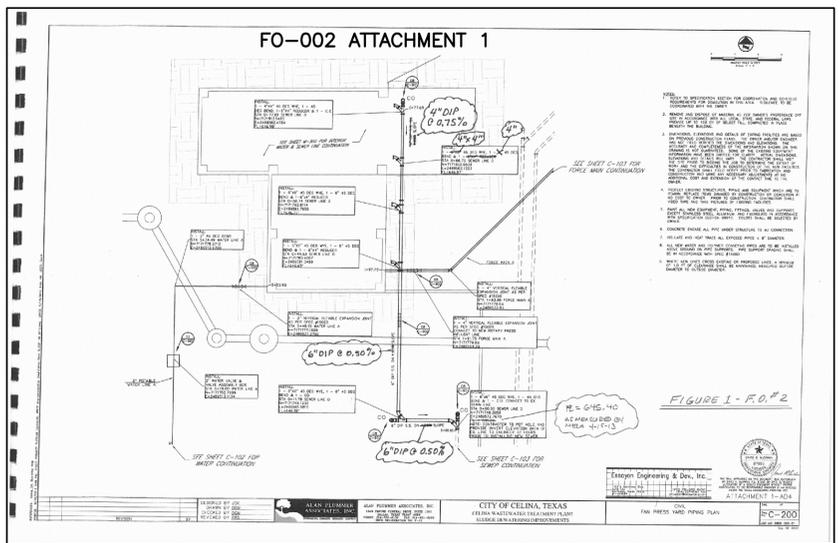
The Contractor is hereby directed as set forth below. These Field Order work instructions are issued pursuant to the General Conditions and Supplementary Conditions in the Contract Documents. It is the Engineer's opinion that this Field Order does not alter the Contract Price or the Contract Time. The Contractor must notify the Engineer prior to commencing work should he/she disagree with the Engineer's opinion and request a Change Order.

FIELD ORDER WORK TO BE PERFORMED

Contractor indicated that the gravity drain lines being installed to serve the Sludge Dewatering Building will interfere with the slab beams. This Field Order provides the Contractor with instructions pertaining to the issue:

- 1) Slopes of the gravity drain lines shall be installed as follows:
 - a) The 4" DIP from STA 0+00.00 (main point) to STA 0+56.74 of Sewer Line D shall be installed on a 0.50% slope. See Figure 1.
 - b) The 4" DIP from STA 0+56.74 to STA 0+77.69 of Sewer Line D shall be installed on a 0.75% slope. See Figure 1.
 - c) The 4" DIP lateral from STA 0+44.53 of Sewer Line D to the floor drain and drain for the press screw conveyor shall be installed on a 0.75% slope. See Figure 2.
 - d) The 4" DIP lateral from STA 0+44.74 of Sewer Line D to the floor drain and drain for the rotary screen unit shall be installed on a 0.75% slope. See Figure 2.
 - e) The 4" DIP lateral from STA 0+49.78 of Sewer Line D to the floor drains shall be installed on a 0.75% slope. See Figure 2.
 - f) The 4" DIP lateral from STA 0+77.69 of Sewer Line D to the floor drains shall be installed on a 0.75% slope. See Figure 2.
- 2) The lateral drain pipes shall be concrete encased as shown in Figure 3. In between the beams, the material installed above drain line encasement shall be compacted select fill or concrete, at the discretion of the Contractor.
- 3) In the areas where the drain lines interfere with the slab beams, the beam reinforcement shall and drain line concrete encasement shall be installed as shown in Figure 4.

PREPARED BY: *[Signature]* 4/23/13 DATE
 Tim Noack, P.E.



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 214-631-6100

BAR IS ONE INCH IN LENGTH ON ORIGINAL DRAWING. CHECK SCALE AND ADJUST ACCORDINGLY.

DESIGNED BY	B. LIN
DRAWN BY	F. CAVE
CHECKED BY	B. LIN
REVIEWED BY	T. NOACK

NO.	DATE	ISSUED FOR RECORD	FJC
01/15			



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 TBPE REGISTRATION NO. F-13

CITY OF CELINA, TEXAS
 CELINA WASTEWATER TREATMENT PLANT
 SLUDGE DEWATERING IMPROVEMENTS

MECHANICAL/STRUCTURAL RECORD DATA

Seq. 42 of 43
 Dwg. No. RD-1
 0856-003-01

CO-001

CHANGE ORDER



OWNER: City of Celina PROJECT NOS: 0856-003-01
PROJECT: Celina Wastewater Treatment Plant Sludge Dewatering Improvements
CONTRACTOR: Meta Contracting, Inc.
ENGINEER: Alan Plummer Associates, Inc.

CHANGE ORDER NO.: CO-001 DESCRIPTION: Deduct for Listed Items
The compensation agreed upon in this Change Order is a full, complete and final payment for all costs the Contractor incurs as a result of or relating to this change, whether said costs are known, unknown, foreseen or unforeseen at this time, including without limitation, any costs for delay, extended overhead, ripple or impact costs, or any other effect on changed or unchanged work as a result of this change.

CHANGE ORDER WORK TO BE PERFORMED

Table with 3 columns: Contract Modification, Time Extension (Calendar Days), Increase/(Decrease) Amount. Includes items like 'Remove areas in the base bid that call for reinforced concrete paving and replace with 12' x 24' concrete paving'.

CO-002

CHANGE ORDER



OWNER: City of Celina PROJECT NOS: 0856-003-01
PROJECT: Celina Wastewater Treatment Plant Sludge Dewatering Improvements
CONTRACTOR: Meta Contracting, Inc.
ENGINEER: Alan Plummer Associates, Inc.

CHANGE ORDER NO.: CO-002 DESCRIPTION: Concrete Enclose SBR Effluent Line and add J.M.
The compensation agreed upon in this Change Order is a full, complete and final payment for all costs the Contractor incurs as a result of or relating to this change, whether said costs are known, unknown, foreseen or unforeseen at this time, including without limitation, any costs for delay, extended overhead, ripple or impact costs, or any other effect on changed or unchanged work as a result of this change.

CHANGE ORDER WORK TO BE PERFORMED

Table with 3 columns: Contract Modification, Time Extension (Calendar Days), Increase/(Decrease) Amount. Includes items like 'All labor and materials necessary to concrete enclose the existing 18" SBR effluent pipe and to install an additional manhole on 18" discharge line'.

CO-003

CHANGE ORDER



OWNER: City of Celina PROJECT NOS: 0856-003-01
PROJECT: Celina Wastewater Treatment Plant Sludge Dewatering Improvements
CONTRACTOR: Meta Contracting, Inc.
ENGINEER: Alan Plummer Associates, Inc.

CHANGE ORDER NO.: CO-003 DESCRIPTION: Time Extension for Rain Days.
The compensation agreed upon in this Change Order is a full, complete and final payment for all costs the Contractor incurs as a result of or relating to this change, whether said costs are known, unknown, foreseen or unforeseen at this time, including without limitation, any costs for delay, extended overhead, ripple or impact costs, or any other effect on changed or unchanged work as a result of this change.

CHANGE ORDER WORK TO BE PERFORMED

Table with 3 columns: Contract Modification, Time Extension (Calendar Days), Increase/(Decrease) Amount. Includes item 'Time Extension for weather delays from January 2013 to July 2013'.

CO-004

CHANGE ORDER



OWNER: City of Celina PROJECT NOS: 0856-003-01
PROJECT: Celina Wastewater Treatment Plant Sludge Dewatering Improvements
CONTRACTOR: Meta Contracting, Inc.
ENGINEER: Alan Plummer Associates, Inc.

CHANGE ORDER NO.: CO-004 DESCRIPTION: Dewatering Area Pre-engineered Metal Bldg.
The compensation agreed upon in this Change Order is a full, complete and final payment for all costs the Contractor incurs as a result of or relating to this change, whether said costs are known, unknown, foreseen or unforeseen at this time, including without limitation, any costs for delay, extended overhead, ripple or impact costs, or any other effect on changed or unchanged work as a result of this change.

CHANGE ORDER WORK TO BE PERFORMED

Table with 3 columns: Contract Modification, Time Extension (Calendar Days), Increase/(Decrease) Amount. Includes items like 'Add a Pre-engineered metal canopy for the new dewatering area (that was part of the base bid and was deleted by CO-001). Add Alternate Bid Item A-2 to enclose the dewatering area Pre-engineered metal canopy with the following modifications: Roof to be 30 year color, 26 ga. R panel screw down roof. Wall panels are 26 ga. "R" with 30 year color, 4" roof and 4" wall, vinyl faced insulation all exterior walls and roof.'

CO-005

CHANGE ORDER



OWNER: City of Celina PROJECT NOS: 0856-003-01
PROJECT: Celina Wastewater Treatment Plant Sludge Dewatering Improvements
CONTRACTOR: Meta Contracting, Inc.
ENGINEER: Alan Plummer Associates, Inc.

CHANGE ORDER NO.: CO-005 DESCRIPTION: Exhaust Fans For Dewatering Bldg.
The compensation agreed upon in this Change Order is a full, complete and final payment for all costs the Contractor incurs as a result of or relating to this change, whether said costs are known, unknown, foreseen or unforeseen at this time, including without limitation, any costs for delay, extended overhead, ripple or impact costs, or any other effect on changed or unchanged work as a result of this change.

CHANGE ORDER WORK TO BE PERFORMED

Table with 3 columns: Contract Modification, Time Extension (Calendar Days), Increase/(Decrease) Amount. Includes items like 'Furnish and install two (2) 24-inch corrosion resistant, weather mounted exhaust fans to the Dewatering Pre-engineered Metal Building (Metal Bldg.) added by CO-004 for a complete and operational system.'

CO-006

CHANGE ORDER



OWNER: City of Celina PROJECT NOS: 0856-003-01
PROJECT: Celina Wastewater Treatment Plant Sludge Dewatering Improvements
CONTRACTOR: Meta Contracting, Inc.
ENGINEER: Alan Plummer Associates, Inc.

CHANGE ORDER NO.: CO-006 DESCRIPTION: Ladders & handrails for dewatering building.
The compensation agreed upon in this Change Order is a full, complete and final payment for all costs the Contractor incurs as a result of or relating to this change, whether said costs are known, unknown, foreseen or unforeseen at this time, including without limitation, any costs for delay, extended overhead, ripple or impact costs, or any other effect on changed or unchanged work as a result of this change.

CHANGE ORDER WORK TO BE PERFORMED

Table with 3 columns: Contract Modification, Time Extension (Calendar Days), Increase/(Decrease) Amount. Includes items like 'Furnish and install two (2) galvanized motor operated ladders, 24-inch square, central for ladders and interlock with exhaust fans for the sludge dewatering building, for a complete and operational system.'

CO-001

CHANGE ORDER



Original Substantial Completion Date: 210 days from NTP
Original Final Completion Date: 240 days from NTP
Previous Change Order(s): -
New Increase in Contact Time (this change order): -0-
Revised Substantial Completion Date: 210 days from NTP
Revised Final Completion Date: 240 days from NTP

Submitted by Contractor: Paul Mendoza, P.E., President, Meta Contracting, Inc. Date: 4-4-13

Recommended by Engineer: Travis Markham, P.E., Project Manager, Alan Plummer Associates, Inc. Date: 4-18-13

Recommended by: Joseph Johnson, Director of Public Works, City of Celina. Date: 4-5-13

Approved by: Mike Foreman, City Manager, City of Celina. Date: 4-5-13

CO-002

CHANGE ORDER



Original Substantial Completion Date: 210 days from NTP
Original Final Completion Date: 240 days from NTP
Previous Change Order(s): -
New Increase in Contact Time (this change order): -0-
Revised Substantial Completion Date: 210 days from NTP
Revised Final Completion Date: 240 days from NTP

Submitted by Contractor: Paul Mendoza, P.E., President, Meta Contracting, Inc. Date: 4-4-13

Recommended by Engineer: Travis Markham, P.E., Project Manager, Alan Plummer Associates, Inc. Date: 4-18-13

Recommended by: Joseph Johnson, Director of Public Works, City of Celina. Date: 4-5-13

Approved by: Mike Foreman, City Manager, City of Celina. Date: 4-5-13

CO-003

CHANGE ORDER



Original Substantial Completion Date: 210 days from NTP
Original Final Completion Date: 240 days from NTP
Previous Change Order(s): -
New Increase in Contact Time (this change order): -0-
Revised Substantial Completion Date: 210 days from NTP
Revised Final Completion Date: 240 days from NTP

Submitted by Contractor: Paul Mendoza, P.E., President, Meta Contracting, Inc. Date: 4-4-13

Recommended by Engineer: Travis Markham, P.E., Project Manager, Alan Plummer Associates, Inc. Date: 4-18-13

Recommended by: Joseph Johnson, Director of Public Works, City of Celina. Date: 4-5-13

Approved by: Mike Foreman, City Manager, City of Celina. Date: 4-5-13

CO-004

CHANGE ORDER



Original Substantial Completion Date: 210 days from NTP
Original Final Completion Date: 240 days from NTP
Previous Change Order(s): -
New Increase in Contact Time (this change order): -0-
Revised Substantial Completion Date: 210 days from NTP
Revised Final Completion Date: 240 days from NTP

Submitted by Contractor: Paul Mendoza, P.E., President, Meta Contracting, Inc. Date: 7-1-14

Recommended by Engineer: Travis Markham, P.E., Project Manager, Alan Plummer Associates, Inc. Date: 7-2-14

Recommended by: Joseph Johnson, Director of Public Works, City of Celina. Date: 7-2-14

Approved by: Mike Foreman, City Manager, City of Celina. Date: 7-1-14

CO-005

CHANGE ORDER



Original Substantial Completion Date: 210 days from NTP
Original Final Completion Date: 240 days from NTP
Previous Change Order(s): -
New Increase in Contact Time (this change order): -0-
Revised Substantial Completion Date: 210 days from NTP
Revised Final Completion Date: 240 days from NTP

Submitted by Contractor: Paul Mendoza, P.E., President, Meta Contracting, Inc. Date: 7-1-14

Recommended by Engineer: Travis Markham, P.E., Project Manager, Alan Plummer Associates, Inc. Date: 7-1-14

Recommended by: Joseph Johnson, Director of Public Works, City of Celina. Date: 7-1-14

Approved by: Mike Foreman, City Manager, City of Celina. Date: 7-1-14

CO-006

CHANGE ORDER



Original Substantial Completion Date: 210 days from NTP
Original Final Completion Date: 240 days from NTP
Previous Change Order(s): -
New Increase in Contact Time (this change order): -0-
Revised Substantial Completion Date: 210 days from NTP
Revised Final Completion Date: 240 days from NTP

Submitted by Contractor: Paul Mendoza, P.E., President, Meta Contracting, Inc. Date: 11-11-14

Recommended by Engineer: Travis Markham, P.E., Project Manager, Alan Plummer Associates, Inc. Date: 11-11-14

Recommended by: Joseph Johnson, Director of Public Works, City of Celina. Date: 11-11-14

Approved by: Mike Foreman, City Manager, City of Celina. Date: 11-11-14

BAR IS ONE INCH IN LENGTH ON ORIGINAL DRAWING. CHECK SCALE AND ADJUST ACCORDINGLY.

ONE INCH

DESIGNED BY B. LIN
DRAWN BY F. CAVE
CHECKED BY B. LIN
REVIEWED BY T. NOACK



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1349 EMPIRE CENTRAL DRIVE, SUITE 1000
DALLAS, TEXAS 75247-4066
PHONE: 214-631-6100 FAX: 214-631-6109
TBPE REGISTRATION NO. F-13

CITY OF CELINA, TEXAS
CELINA WASTEWATER TREATMENT PLANT
SLUDGE DEWATERING IMPROVEMENTS

MECHANICAL/STRUCTURAL
RECORD DATA

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Seq. 43 of 43
Dwg. No. RD-2
0856-003-01