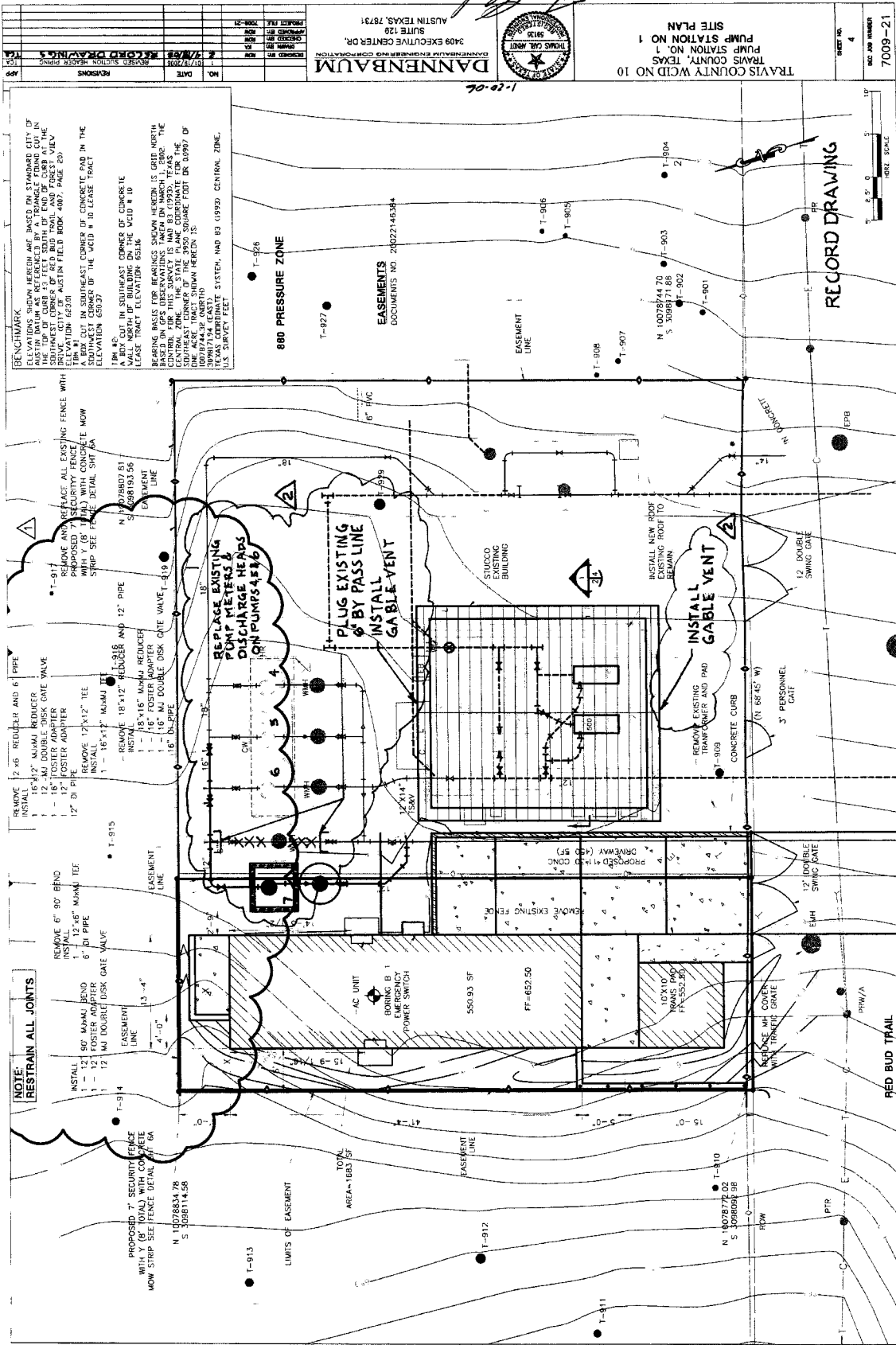
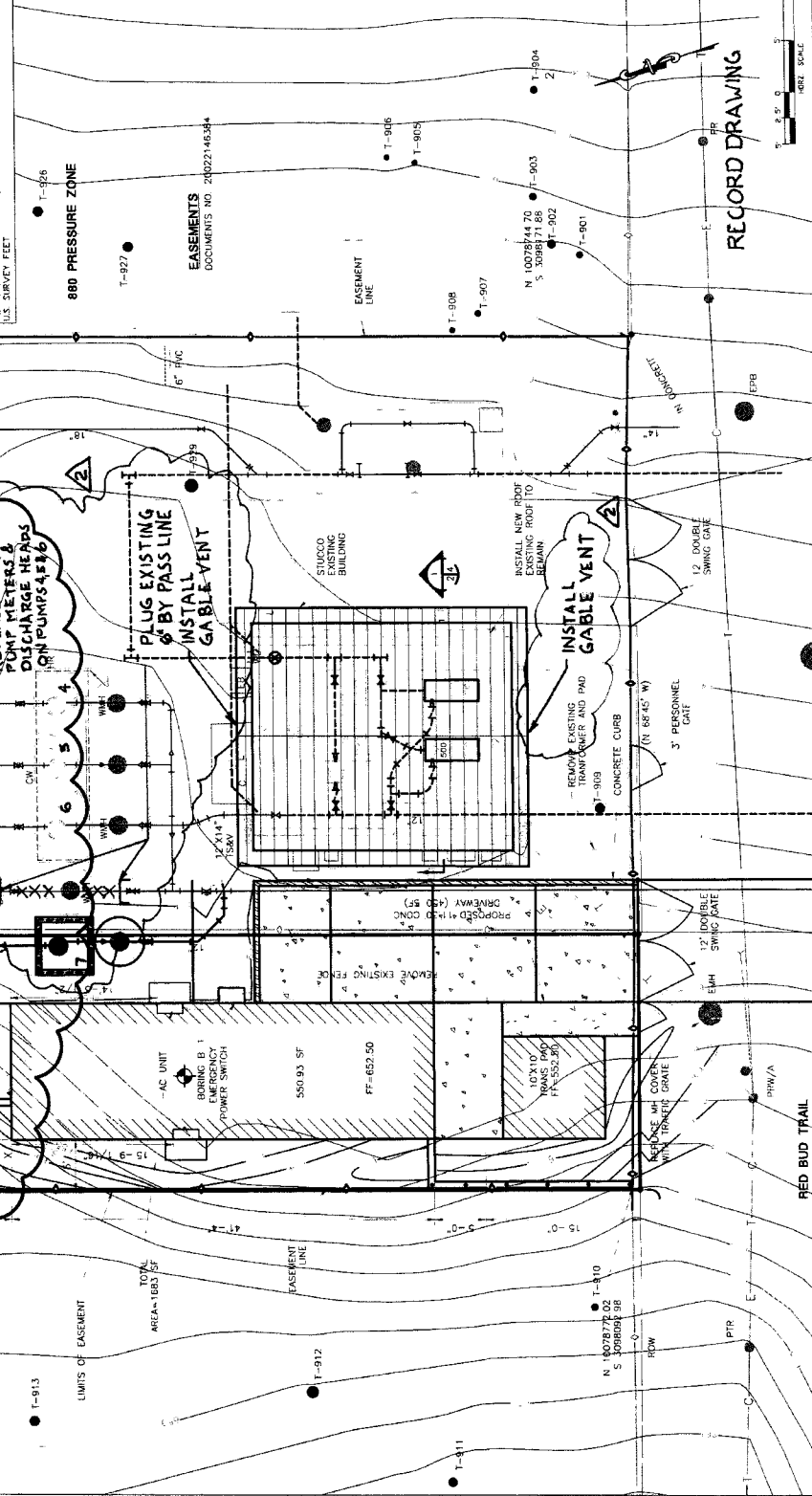




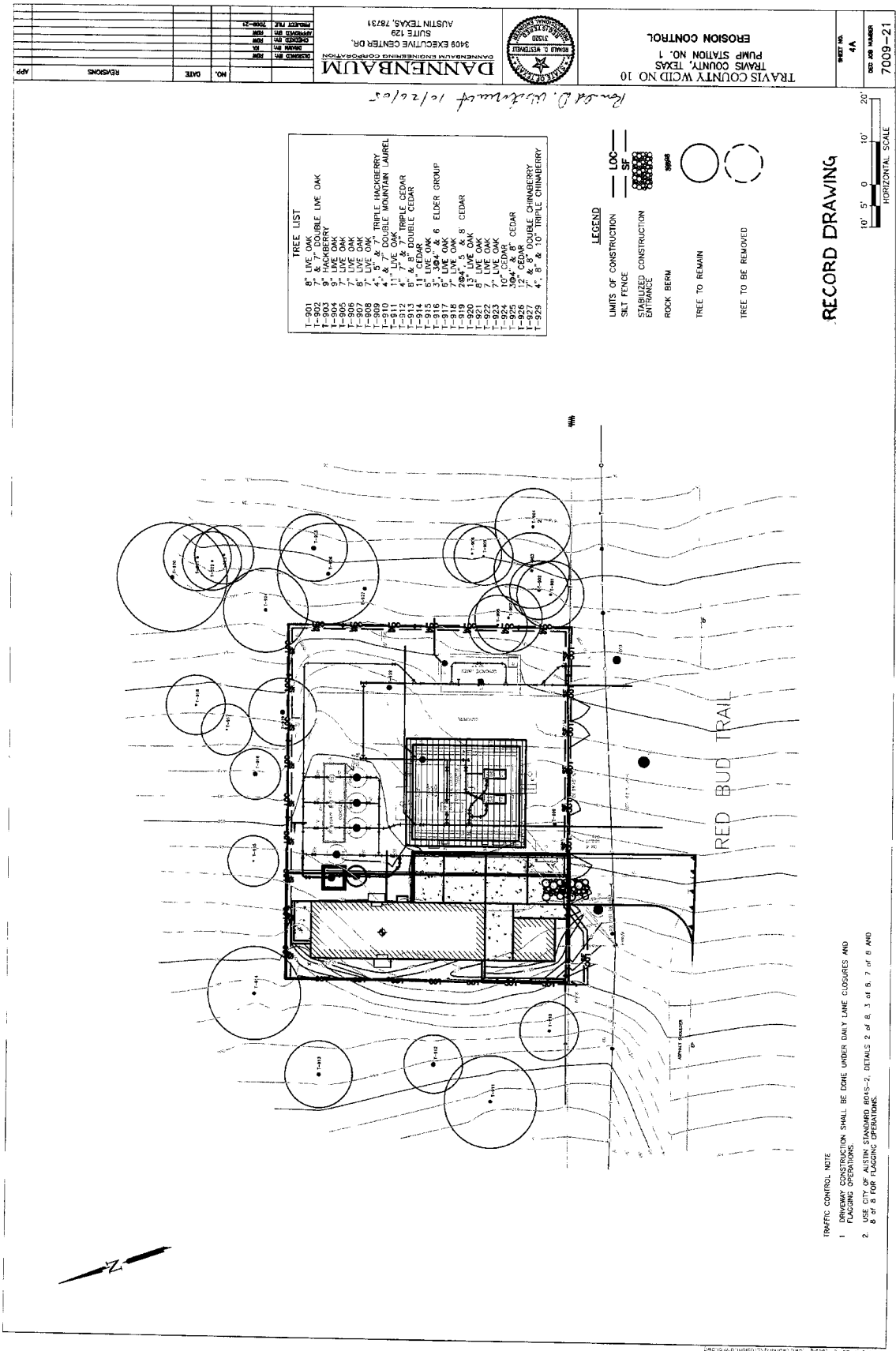
BENCHMARK
 ELEVATIONS SHOWN HEREIN ARE BASED ON STANDARD CITY OF AUSTIN DATUM. THE TOP OF CURB 51 FEET SOUTH OF THE END OF CURB AT THE SOUTHWEST CORNER OF RED BUD TRAIL AND FOREST VIEW ELEVATION 6230.8. A BENCHMARK WAS SET IN THE SOUTHWEST CORNER OF THE VCD # 10 LEASE TRACT ELEVATION 6237.7.
 1. A BENCHMARK WAS SET IN THE SOUTHWEST CORNER OF THE VCD # 10 LEASE TRACT ELEVATION 6237.7.
 2. A BENCHMARK WAS SET IN THE SOUTHWEST CORNER OF THE VCD # 10 LEASE TRACT ELEVATION 6237.7.
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 8. A BENCHMARK WAS SET IN THE SOUTHWEST CORNER OF THE VCD # 10 LEASE TRACT ELEVATION 6237.7.
 9. A BENCHMARK WAS SET IN THE SOUTHWEST CORNER OF THE VCD # 10 LEASE TRACT ELEVATION 6237.7.
 10. A BENCHMARK WAS SET IN THE SOUTHWEST CORNER OF THE VCD # 10 LEASE TRACT ELEVATION 6237.7.



DANNENBAUM
 3409 EXECUTIVE CENTER DR., SUITE 120
 AUSTIN, TEXAS 78731
 1-20-06

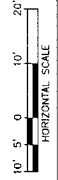
TRAVIS COUNTY WCID NO. 10
PUMP STATION NO. 1
SITE PLAN

7009-21
7009-21



TRAFFIC CONTROL NOTE
 1. UNLAWY CONSTRUCTION SHALL BE DONE UNDER DAILY LANE CLOSURES AND FLAGGING OPERATIONS.
 2. USE CITY OF AUSTIN STANDARD ROAS-2, DETAILS 2 of 8, 3 of 8, 7 of 8 AND 8 of 8 FOR FLAGGING OPERATIONS.

RECORD DRAWING



- LEGEND**
- LIMITS OF CONSTRUCTION
 - SILT FENCE
 - STABILIZED CONSTRUCTION ENTRANCE
 - ROCK BERM
 - TREE TO REMAIN
 - TREE TO BE REMOVED

TREE LIST

T-901	8" LIVE OAK
T-902	7" & 7" DOUBLE LIVE OAK
T-903	7" LIVE OAK
T-904	7" LIVE OAK
T-905	7" LIVE OAK
T-906	7" LIVE OAK
T-907	7" LIVE OAK
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T-998	7" LIVE OAK
T-999	7" LIVE OAK
T-1000	7" LIVE OAK

RECORD DRAWING

7009-21

DATE

5/1

BY

SA

TRAVIS COUNTY WCID NO 10
PUMP STATION NO. 1
COA STANDARD DETAILS

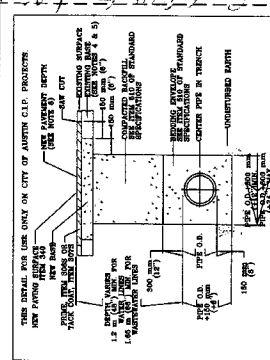


DANNENBAUM
3409 EXECUTIVE CENTER DR.
SUITE 129
AUSTIN TEXAS 78731

NO.	DATE	REVISIONS
1	5/1/16	ISSUED FOR PERMIT
2	5/1/16	FOR CONSTRUCTION
3	5/1/16	FOR RECORD
4	5/1/16	FOR RECORD
5	5/1/16	FOR RECORD
6	5/1/16	FOR RECORD
7	5/1/16	FOR RECORD
8	5/1/16	FOR RECORD
9	5/1/16	FOR RECORD
10	5/1/16	FOR RECORD

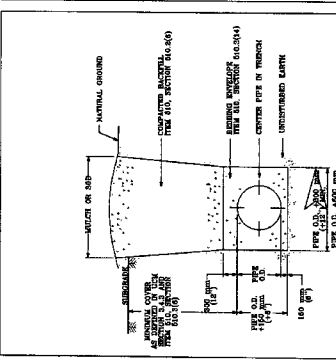
CITY OF AUSTIN	PROJECT NO.	DATE	BY	CHK
5105-3	7009-21	5/1/16	SA	SA

1. THE TRENCH SHALL BE 18" DEEP AND 18" WIDE AT THE BOTTOM. THE SIDES SHALL BE VERTICAL. THE TRENCH SHALL BE 18" DEEP AND 18" WIDE AT THE BOTTOM. THE SIDES SHALL BE VERTICAL. THE TRENCH SHALL BE 18" DEEP AND 18" WIDE AT THE BOTTOM. THE SIDES SHALL BE VERTICAL.



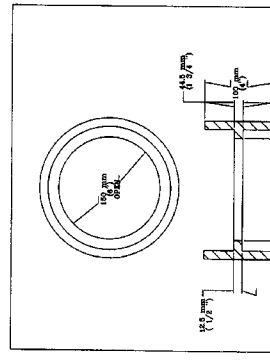
CITY OF AUSTIN	PROJECT NO.	DATE	BY	CHK
5105-6	7009-21	5/1/16	SA	SA

1. THE TRENCH SHALL BE 18" DEEP AND 18" WIDE AT THE BOTTOM. THE SIDES SHALL BE VERTICAL. THE TRENCH SHALL BE 18" DEEP AND 18" WIDE AT THE BOTTOM. THE SIDES SHALL BE VERTICAL.



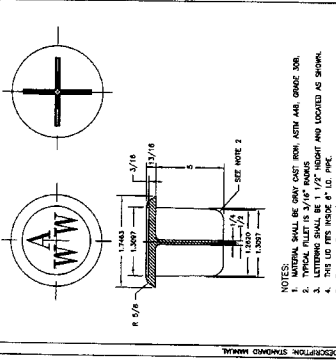
CITY OF AUSTIN	PROJECT NO.	DATE	BY	CHK
5115-16	7009-21	5/1/16	SA	SA

1. THE TRENCH SHALL BE 18" DEEP AND 18" WIDE AT THE BOTTOM. THE SIDES SHALL BE VERTICAL. THE TRENCH SHALL BE 18" DEEP AND 18" WIDE AT THE BOTTOM. THE SIDES SHALL BE VERTICAL.



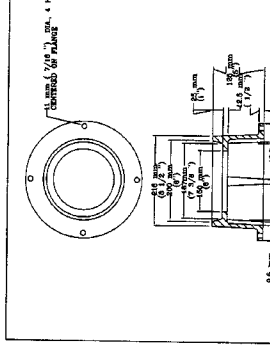
CITY OF AUSTIN	PROJECT NO.	DATE	BY	CHK
5115-1	7009-21	5/1/16	SA	SA

1. THE TRENCH SHALL BE 18" DEEP AND 18" WIDE AT THE BOTTOM. THE SIDES SHALL BE VERTICAL. THE TRENCH SHALL BE 18" DEEP AND 18" WIDE AT THE BOTTOM. THE SIDES SHALL BE VERTICAL.



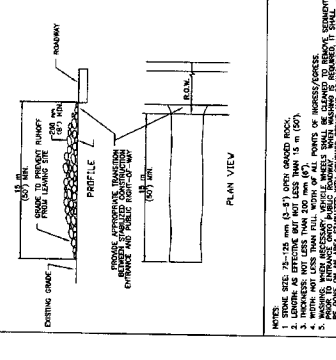
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5115-14	7009-21	5/1/16	SA	SA

1. THE TRENCH SHALL BE 18" DEEP AND 18" WIDE AT THE BOTTOM. THE SIDES SHALL BE VERTICAL. THE TRENCH SHALL BE 18" DEEP AND 18" WIDE AT THE BOTTOM. THE SIDES SHALL BE VERTICAL.



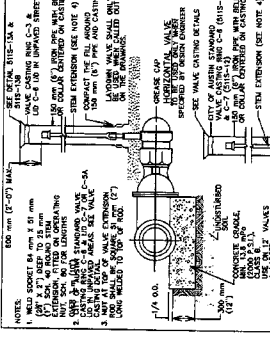
CITY OF AUSTIN	PROJECT NO.	DATE	BY	CHK
5115-1	7009-21	5/1/16	SA	SA

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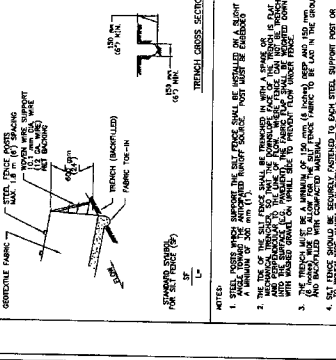
CITY OF AUSTIN	PROJECT NO.	DATE	BY	CHK
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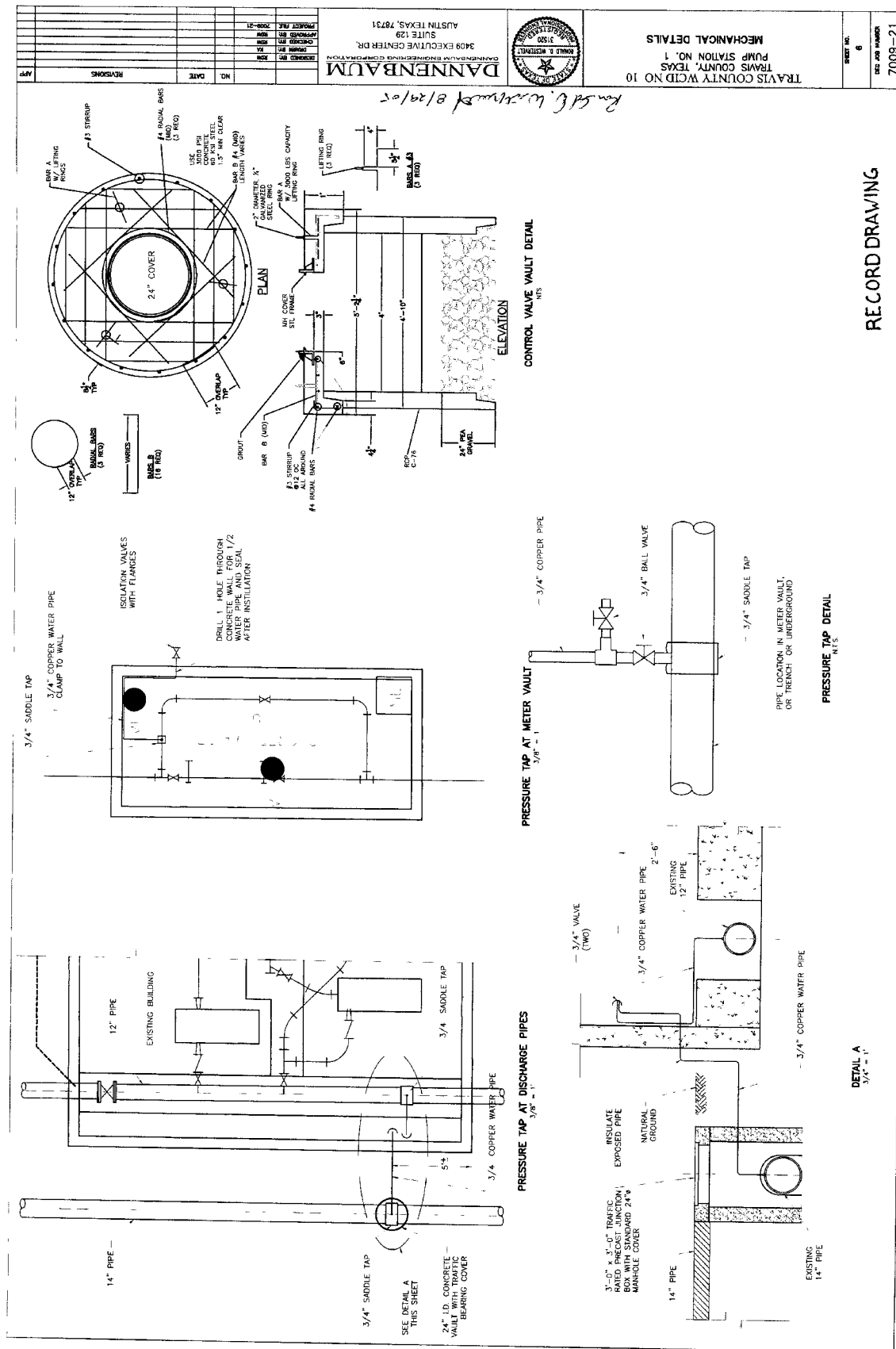
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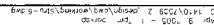
CITY OF AUSTIN	PROJECT NO.	DATE	BY	CHK
5115-1	7009-21	5/1/16	SA	SA

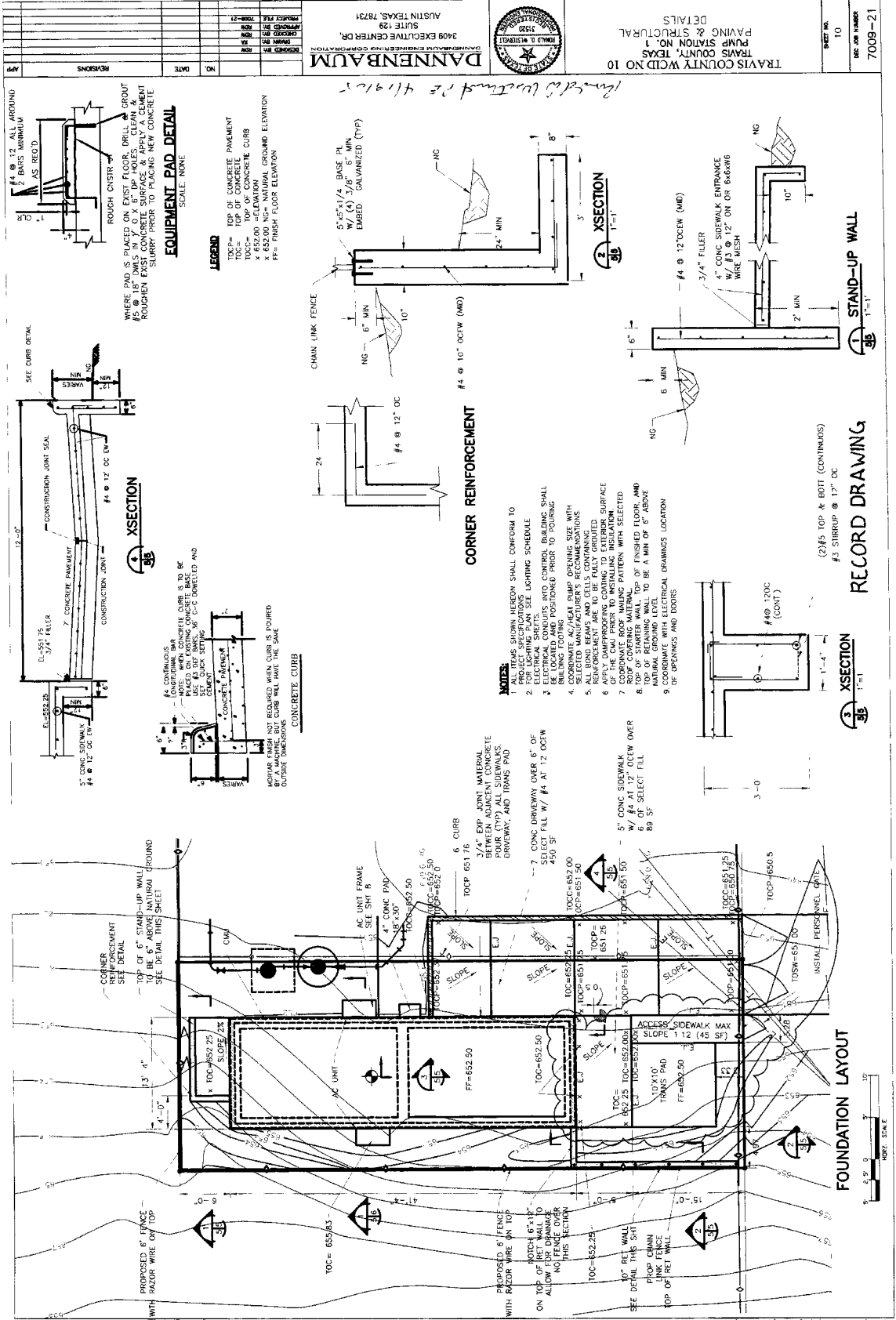
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14-00000-2, design & layout - 3.5m





1. CONCRETE MASONRY UNITS SHALL BE MINIMUM LOAD BEARING TYPE N-1 UNITS. CONCRETE CONFORM TO ASTM C80, WITH A MINIMUM COMPRESSIVE STRENGTH OF 1800 PSI.
2. MORTAR SHALL CONFORM TO ASTM C270, TYPE S, WITH A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI.
3. CHASES SHALL BE BUILT IN AND NOT CUT IN. CHASES SHALL BE PLUMB AND SHALL BE MINIMUM ONE-FIT LENGTH FROM JAMES OF OPENINGS. JACOBS, OR OTHER MASONRY WORK PROGRESSES, ALL CUTTING AND FITTING OF MASONRY, INCLUDING THAT REQUIRED TO ACCOMMODATE THE WORK OF OTHER SECTIONS SHALL BE DONE BY MASONS WITH MASONRY SKILLS.
4. MORTAR SHALL CONFORM TO ASTM C270, TYPE S, WITH A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI. CONCRETE SHALL CONFORM TO ASTM C780. MASONRY GROUT SHALL NOT BE USED.
5. CHASE GROUT SHALL CONFORM TO ASTM C478, WITH A MINIMUM ADEQUATE SIZE OF 1/2" AND A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI.
6. REINFORCE CONCRETE MASONRY UNITS WITH LADDER TYPE HOT OR GALVANIZED 6 GAUGE CROSS BRIDS. SPACE JOINT REINFORCING AT 16" O.C. UNLESS NOTED OTHERWISE. PROVIDE "THRUJOINT" JOINT REINFORCING WHERE 6" OR UNDER CONCRETE MASONRY UNITS BACKUP BRICK MASONRY VENEER. LAP JOINT REINFORCING 14" AT JOINTS. JOINT REINFORCING SHALL BE DISCONTINUOUS AT CORNERS AND EXPANSION JOINTS.

7. PROVIDE REINFORCED AND GROUTED VERTICAL CELLS AT 48" ON CENTER UNLESS NOTED OTHERWISE ON THE DRAWINGS. REINFORCING SHALL CONSIST OF #5 BARS GROUT AND REINFORCE THE FIRST CELL AT THE ENDS OF WALLS AND AT CORNERS.
8. REINFORCE EACH CELL OF CONCRETE MASONRY UNITS EACH SIDE OF FRAMED OPENINGS WITH 1-#5 VERTICAL GROUT CELL FULL HEIGHT OF WALL.
9. LAP REINFORCING BARS IN GROUTED MASONRY 48 BAR DIAMETERS MINIMUM AT FOUNDATIONS AND 80 BAR DIAMETERS AT ALL OTHER LOCATIONS. UNLESS NOTED OTHERWISE, REINFORCING BARS SHALL BE SPICED AT THE SAME LOCATION THAT MORE THAN 1/2 OF ALL BARS ARE SPICED AT THE SAME LOCATION.
10. PROVIDE 1" CLEAR COVER BETWEEN REE OF CONCRETE/STAINLESS STEEL AND THE INSIDE FACE OF MASONRY USED AS FORMS IN GROUTED BEAMS, BOND BRANIS, PLASTERS, AND COLUMNS.

- a. VERTICAL BARS SHALL BE PLACED IN POSITION AT THE TOP AND BOTTOM AND AT INTERVALS NOT EXCEEDING 6" WITH A MINIMUM CLEARANCE OF 1 1/2" FROM THE FACE OF THE MASONRY AND NOT LESS THAN ONE BAR DIAMETER OR 1" (WHICHEVER IS GREATER) BETWEEN ADJACENT BARS.
- b. ALL DOWELS SHALL BE GROUDED INTO A CELL THAT LAPS THE VERTICAL STEEL REINFORCING STEEL BAR. IT SHALL BE SLOPED NOT MORE THAN ONE HORIZONTAL TO SIX VERTICAL.
- c. ALL HORIZONTAL REINFORCING STEEL SHALL BE PLACED IN CONTIGUOUS BOND BEAMS OR OTHER BLOCK UNITS AND SHALL BE SLOABLY GRADED IN PLACE. MAINTAIN A MINIMUM OF ONE BAR DIAMETER OR 1" (WHICHEVER IS GREATER) CLEARANCE BETWEEN ADJACENT BARS AND A MINIMUM OF ONE BAR DIAMETER OR 1" (WHICHEVER IS GREATER) CLEARANCE BETWEEN ADJACENT REINFORCING STEEL BARS.

ONLY LARGER SLEEVE OPENINGS, FINED OPENINGS, IN STRUCTURAL FRAMING SHALL BE PROVIDED WITH AN ANCHOR BOLT. ALL OTHER STRUCTURAL FRAMING SHALL BE SLEEVES, INSERTS AND OPENINGS INCLUDING FRAMES AND/OR SLEEVES SHALL BE PROVIDED FOR PASSAGE, PROVISION AND/OR INCORPORATION OF THE WORK OF THE CONTRACT, INCLUDING BUT NOT LIMITED TO MECHANICAL, ELECTRICAL, AND PLUMBING WORK. THIS WORK SHALL INCLUDE THE COORDINATION OF SIZES, ALIGNMENT, DIMENSIONS, POSITION, LOCATIONS, ELEVATIONS AND GRADES AS REQUIRED TO SERVE THE INTENDED PURPOSE. OPENINGS NOT INDICATED ON THE STRUCTURAL DRAWINGS, BUT INDICATED ON THE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS, SHALL BE

2. COMPATIBILITY OF THE STRUCTURE AND PROVISIONS FOR BUILDING EQUIPMENT SUPPORTED ON, OR FROM, STRUCTURAL COMPONENTS SHALL BE VERIFIED AS TO SIZE DIMENSIONS, CLEARANCES, ACCESSIBILITY, WEIGHTS AND REACTION WITH THE EQUIPMENT. SUCH VERIFICATION SHALL BE DONE BY THE ARCHITECT AND THE SHOP DRAWINGS SHALL BE PREPARED FOR EACH TYPE OF EQUIPMENT AND FOR STRUCTURAL COMPONENTS. DIFFERENCES SHALL BE NOTED ON THE SUBMITTALS.
3. SHOP DRAWINGS SHALL BE PREPARED FOR ALL STRUCTURAL ITEMS AND SUBMITTED FOR REVIEW BY THE ENGINEER. CONTRACT DRAWINGS SHALL NOT BE REPRODUCED OR USED AS SHOP DRAWINGS. ALL ITEMS DRAWING FROM THE CONTRACT DRAWINGS OR PREPARED USING ALL OR PORTIONS OF THE CONTRACT DRAWINGS WILL BE RETURNED TO THE CONTRACTOR REJECTED, WITHOUT REVIEW.
4. THE DETAILS DESIGNATED AS "TYPICAL DETAILS" APPLY GENERALLY TO THE DRAWINGS IN ALL AREAS WHERE CONDITIONS ARE SIMILAR TO THOSE DESCRIBED IN THE DETAILS. SUCH DETAILS SHALL BE CHECKED WHETHER OR NOT THE DETAILS SHALL BE DETERMINED BY THE ENGINEER. THE GENERAL APPLICABILITY OF TYPICAL DETAILS SHALL BE DETERMINED BY THE ENGINEER.
5. ALL DIMENSIONS AND CONDITIONS OF EXISTING CONSTRUCTION SHALL BE VERIFIED AT THE JOB SITE. DIFFERENCES BETWEEN EXISTING CONSTRUCTION AND THE DRAWINGS SHALL BE NOTED TO THE ARCHITECT. DIFFERENCES SHALL ALSO BE CLOUDED ON THE SHOP DRAWINGS.
6. THE DESIGN AND PROVISION OF ALL TEMPORARY SUPPORTS SUCH AS GUYS, BRACES, JACKS, SHORING, BRIDGES, ETC., SHALL BE THE RESPONSIBILITY OF THE ARCHITECT. ANY OTHER TEMPORARY ELEMENTS REQUIRED FOR THE EXECUTION OF THE

IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO OBTAIN ALL CONTACT DOCUMENTS AND LATEST ADDENDA AND TO SUBMIT SUCH DOCUMENTS TO ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS, FABRICATION OF ANY STRUCTURAL MEMBERS, AND CONSTRUCTION.

- THE CONTRACT, STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, AND EXCEPT WHERE SPECIFICALLY SHOWN, DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SELECTION OF THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION PLANS, METHODS, PROCEDURES, TECHNIQUES, AND SEQUENCE.
- THE ENGINEER SHALL NOT HAVE CONTROL OF, AND SHALL NOT BE RESPONSIBLE FOR, CONSTRUCTION METHODS AND PROGRAMS IN CONNECTION WITH THE WORK FOR THE ACTS OF THE CONTRACTOR, SUBCONTRACTORS, OR ANY OTHER PERSONS OR FIRMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- PERIODIC SITE OBSERVATION BY FIELD REPRESENTATIVES OF DANIELMAN ENGINEERING CO., IS SOLELY FOR THE PURPOSE OF DETERMINING IF THE WORK OF THE CONTRACTOR CONFORMS WITH THE CONTRACT DOCUMENTS. THE OBSERVATION IS NOT INTENDED TO BE A CHECK OF THE QUALITY OR QUANTITY OF THE WORK, BUT RATHER PERFORMING AN EFFORT TO

1. MATERIALS

A. LINE SHOULD CONFORM TO ASTM C207, TYPE S, HYDRATED LIME FOR MASONRY PURPOSES.

B. SAND SHOULD CONFORM TO ASTM C144, TO ASSURE PROPER GRADATION AND FREEDOM FROM IMPURITIES, SAND, OR OTHER TYPE OF AGGREGATE.

C. CEMENT SHOULD CONFORM TO ASTM C150, TYPE II (WHITE, NONSTAINING), PORTLAND CEMENT.

D. WATER SHOULD BE FRESH, CLEAN, AND POTABLE.

- E. FIBER TYPE: MANILLA FIBER OF GOOD QUALITY, 1/8" TO 2" IN LENGTH, CLEAN, AND FREE OF DUST, OIL, GREASE OR OTHER IMPURITIES.
 - F. WASHERS AND MECHANICAL FASTENERS SHALL BE CORROSION RESISTANT AND SHALL ATTACH TO THE CMC STRUCTURE.
 - G. FIBERGLASS REINFORCING MESH SHALL NOT BE LESS THAN 4.4 OZ PER SQ YD.
2. DESIGN
 - A. DEFLECTION OF SUBSTRATE SYSTEM SHALL NOT EXCEED L/240
 - B. EXPANSION JOINTS AT EVERY 16 FEET WHERE THERE ARE NO OPENINGS
 - C. SYSTEM TERMINATION TO WINDOWS, DOORS, 1/2" UNITS, ELECTRICAL BOXES SHALL BE MADE FOR PROPER CLOSED, OPEN, AND INTERMEDIATE POSITIONS AND SHOWN DETAILS (ABOUT 1/2")

PREPARED AT THE SITE, THE PLASTER SHALL FOLLOW THE ABOVE DESIGN CRITERIA, COORDINATE WITH OWNER AS TO COLOR.

- VENTILATION**
- A. USE RIDGE VENTILATION MADE OF ALUMINUM AND FHA APPROVED.
- B. A MINIMUM OF 20 LINEAR FEET PER BUILDING OR FOLLOW MANUFACTURERS

1. WHEN WEB STEEL JOISTS SHALL CONFORM TO THE STANDARD SPECIFICATIONS OF THE STEEL JOIST INSTITUTE (SJI). CHORDS OF JOISTS SHALL BE ANGLES OR TEES.

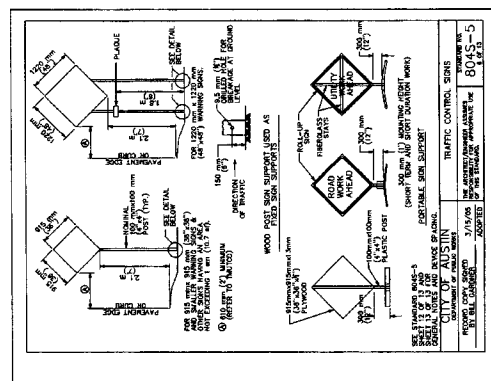
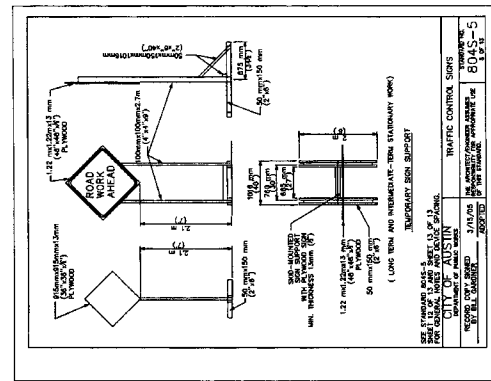
- 2 PROVIDE BRIDGING IN ACCORDANCE WITH S&P
SECTION 10.0. BRIDGING SHALL BE WELDED TO THE
UNDERLAYS AND END RAILS OF BRIDGINGS SHALL NOT BE
WELDED TO THE UNDERLAYS. BRIDGING SHALL BE
LESS THAN THAT SHOWN ON THE DRAWINGS. BRIDGING SHALL
BE WELDED TO THE UNDERLAYS OF WALLS. BRIDGING SHALL
BE WELDED TO THE UNDERLAYS OF WALLS. PROVIDE
ADDITIONAL BRIDGING WHERE REQUIRED FOR UPSET
- 3 OPEN WEB STEEL JOISTS SHALL BE WELDED TO STEEL SUPPORTS
WITH THE EQUIPMENT OF ONE 1/4" FALLET WELD LONG
EACH SIDE OF JOIST. STEEL JOISTS SHALL BE WELDED TO STEEL SUPPORTS
WITH THE EQUIPMENT OF ONE 1/4" FALLET WELD 1 1/2" LONG EACH SIDE OF JOIST

(SEE SHOP DRAWINGS)

1000

P-TC02027 114

RECORD DRAWING

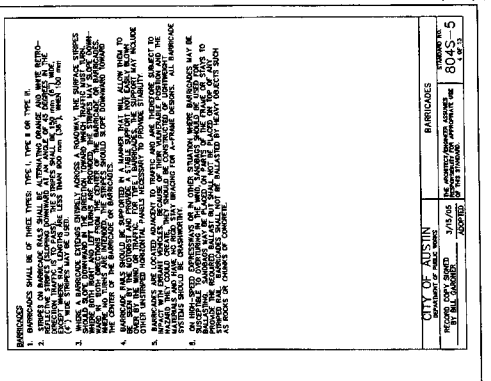
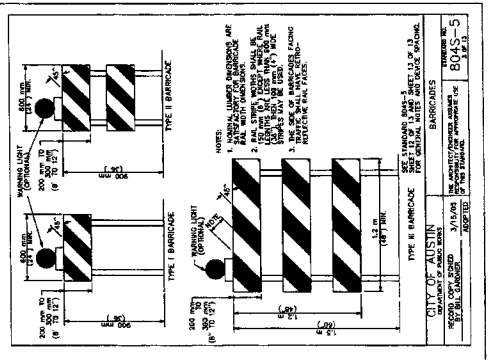
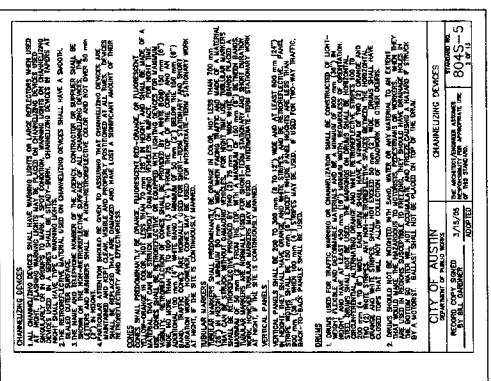
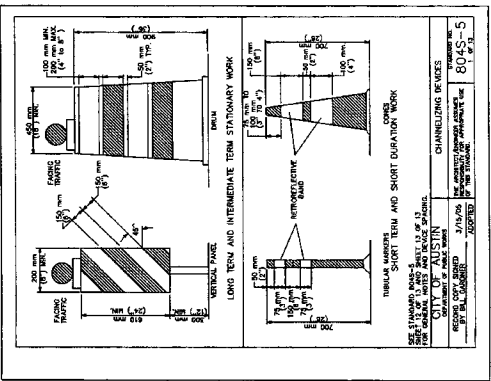
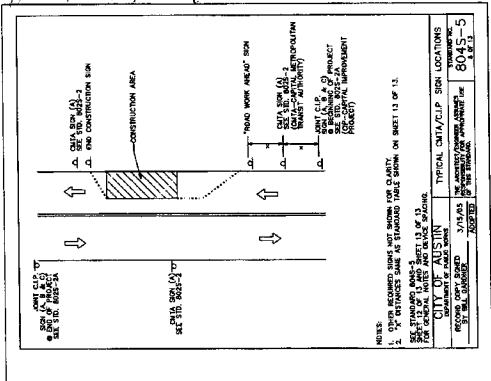


TRAFFIC CONTROL SIGNS

SEE STANDARD 804S-5 FOR SIGNAGE, MESSAGE, AND PLACEMENT OF SIGNS.

CITY OF AUSTIN
RECORD COPY PREPARED 3/15/78 BY THE AMERICAN OVERSEAS ENGINEERING CO. FOR THE CITY OF AUSTIN
BY: M. J. JENSEN 3/15/78
DATE: 3/15/78

Sign	Size	Material	Color	Message	Placement
ROAD AHEAD	36" x 48"	Aluminum	White	ROAD AHEAD	100' to 150'
WORK AHEAD	36" x 48"	Aluminum	White	WORK AHEAD	100' to 150'
ROAD AHEAD	36" x 48"	Aluminum	White	ROAD AHEAD	100' to 150'
WORK AHEAD	36" x 48"	Aluminum	White	WORK AHEAD	100' to 150'
ROAD AHEAD	36" x 48"	Aluminum	White	ROAD AHEAD	100' to 150'
WORK AHEAD	36" x 48"	Aluminum	White	WORK AHEAD	100' to 150'
ROAD AHEAD	36" x 48"	Aluminum	White	ROAD AHEAD	100' to 150'
WORK AHEAD	36" x 48"	Aluminum	White	WORK AHEAD	100' to 150'
ROAD AHEAD	36" x 48"	Aluminum	White	ROAD AHEAD	100' to 150'
WORK AHEAD	36" x 48"	Aluminum	White	WORK AHEAD	100' to 150'



RECORD DRAWING

TRAVIS COUNTY WCID NO 10
PUMP STATION NO. 1
COA TRAFFIC CONTROL
DETAILS



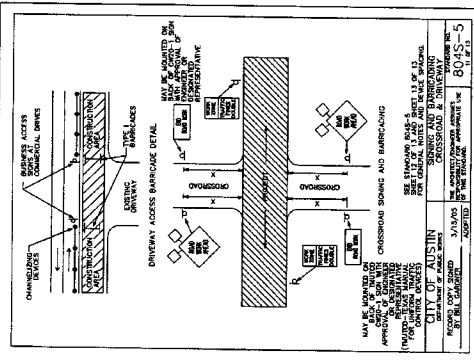
DANNENBAUM
3409 EXECUTIVE CENTER DR.
SUITE 129
AUSTIN, TEXAS 78731

REVISIONS	NO.	DATE	REVISIONS
ADD	1		

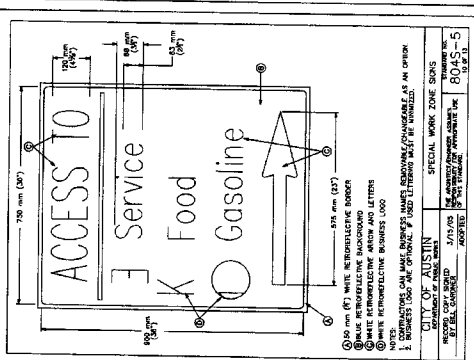
Suggested Minimum Spacing of Devices			
Minimum Spacing (ft)	Minimum Spacing (ft)	Minimum Spacing (ft)	Minimum Spacing (ft)
100	100	100	100
150	150	150	150
200	200	200	200
250	250	250	250
300	300	300	300
350	350	350	350
400	400	400	400
450	450	450	450
500	500	500	500
550	550	550	550
600	600	600	600
650	650	650	650
700	700	700	700
750	750	750	750
800	800	800	800
850	850	850	850
900	900	900	900
950	950	950	950
1000	1000	1000	1000

- 1. ALL TRAFFIC CONTROL DEVICES SHALL BE PLACED IN THE FIELD OF VIEW OF THE DRIVER OF THE VEHICLE APPROACHING THE WORK ZONE.
- 2. THE DEVICES SHALL BE PLACED IN THE FIELD OF VIEW OF THE DRIVER OF THE VEHICLE APPROACHING THE WORK ZONE.
- 3. THE DEVICES SHALL BE PLACED IN THE FIELD OF VIEW OF THE DRIVER OF THE VEHICLE APPROACHING THE WORK ZONE.
- 4. THE DEVICES SHALL BE PLACED IN THE FIELD OF VIEW OF THE DRIVER OF THE VEHICLE APPROACHING THE WORK ZONE.
- 5. THE DEVICES SHALL BE PLACED IN THE FIELD OF VIEW OF THE DRIVER OF THE VEHICLE APPROACHING THE WORK ZONE.
- 6. THE DEVICES SHALL BE PLACED IN THE FIELD OF VIEW OF THE DRIVER OF THE VEHICLE APPROACHING THE WORK ZONE.
- 7. THE DEVICES SHALL BE PLACED IN THE FIELD OF VIEW OF THE DRIVER OF THE VEHICLE APPROACHING THE WORK ZONE.
- 8. THE DEVICES SHALL BE PLACED IN THE FIELD OF VIEW OF THE DRIVER OF THE VEHICLE APPROACHING THE WORK ZONE.
- 9. THE DEVICES SHALL BE PLACED IN THE FIELD OF VIEW OF THE DRIVER OF THE VEHICLE APPROACHING THE WORK ZONE.
- 10. THE DEVICES SHALL BE PLACED IN THE FIELD OF VIEW OF THE DRIVER OF THE VEHICLE APPROACHING THE WORK ZONE.

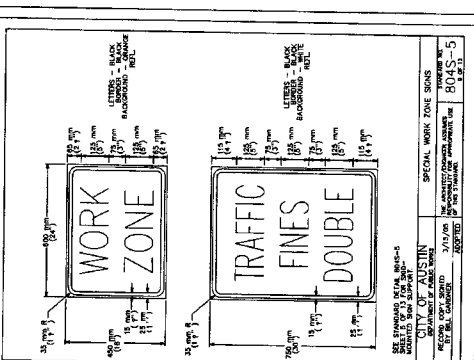
CITY OF AUSTIN
RECORD COPY SHOWN
BY THE CONTRACTOR
APPROVED BY THE ENGINEER
DATE OF APPROVAL
8/15/13



CITY OF AUSTIN
RECORD COPY SHOWN
BY THE CONTRACTOR
APPROVED BY THE ENGINEER
DATE OF APPROVAL
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CITY OF AUSTIN
RECORD COPY SHOWN
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CITY OF AUSTIN
RECORD COPY SHOWN
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APPROVED BY THE ENGINEER
DATE OF APPROVAL
8/15/13

ELECTRICAL WIRING SCHEMATIC SYMBOLS		ELECTRICAL WIRING SCHEMATIC SYMBOLS		ELECTRICAL WIRING SCHEMATIC SYMBOLS	
	Thermal/Magnetic Circuit Breaker (MOTOR CIRCUIT PROTECTOR)		OVERLOAD RELAY (3-POLE SHOWN)		FUSE
	TEMPERATURE SWITCH (NORMALLY CLOSED, OPENS ON RISING TEMPERATURE, CLOSING ON FALLING TEMPERATURE)		3 POLE CIRCUIT BREAKER (NORMALLY OPEN, TIME OUT DE-ENERGIZED)		DRAW OUT DISCONNECTS
	TIME DELAY RELAY CONTACTS (NORMALLY OPEN, TIME OUT DE-ENERGIZED)		OVERLOAD RELAY CONTACTS (BYPASS)		CONNECTION TO EQUIPMENT GROUND BUS (EARTH GROUND)
	TIME DELAY RELAY CONTACTS (NORMALLY CLOSED, TIME OUT DE-ENERGIZED)		P.C. BREAKER RELAY CONTACTS (NORMALLY OPEN, TIME OUT DE-ENERGIZED)		SINGLE POLE DOUBLE THROW (SPDT) OR "3-WAY" SWITCH
	TIME DELAY RELAY CONTACTS (NORMALLY OPEN, TIME OUT DE-ENERGIZED)		P.C. BREAKER RELAY CONTACTS (NORMALLY OPEN, TIME OUT DE-ENERGIZED)		PHASE CURRENT TRANSFORMER (CT)
	TIME DELAY RELAY CONTACTS (NORMALLY CLOSED, TIME OUT DE-ENERGIZED)		P.C. BREAKER RELAY CONTACTS (NORMALLY OPEN, TIME OUT DE-ENERGIZED)		GROUND CURRENT TRANSFORMER (CT)
	TIME DELAY RELAY CONTACTS (NORMALLY OPEN, TIME OUT DE-ENERGIZED)		P.C. BREAKER RELAY CONTACTS (NORMALLY OPEN, TIME OUT DE-ENERGIZED)		POTENTIAL TRANSFORMER (PT)
	TIME DELAY RELAY CONTACTS (NORMALLY CLOSED, TIME OUT DE-ENERGIZED)		P.C. BREAKER RELAY CONTACTS (NORMALLY OPEN, TIME OUT DE-ENERGIZED)		ELECTRIC MOTOR
	TIME DELAY RELAY CONTACTS (NORMALLY OPEN, TIME OUT DE-ENERGIZED)		P.C. BREAKER RELAY CONTACTS (NORMALLY OPEN, TIME OUT DE-ENERGIZED)		MOMENTARY PUSHP-BUTTON (NORMALLY OPEN CONTACTS)
	TIME DELAY RELAY CONTACTS (NORMALLY CLOSED, TIME OUT DE-ENERGIZED)		P.C. BREAKER RELAY CONTACTS (NORMALLY OPEN, TIME OUT DE-ENERGIZED)		MOMENTARY PUSHP-BUTTON (NORMALLY CLOSED CONTACTS)
	TIME DELAY RELAY CONTACTS (NORMALLY OPEN, TIME OUT DE-ENERGIZED)		P.C. BREAKER RELAY CONTACTS (NORMALLY OPEN, TIME OUT DE-ENERGIZED)		3-WIRE RESISTANCE TEMPERATURE DETECTOR (RTD)
	TIME DELAY RELAY CONTACTS (NORMALLY CLOSED, TIME OUT DE-ENERGIZED)		P.C. BREAKER RELAY CONTACTS (NORMALLY OPEN, TIME OUT DE-ENERGIZED)		2-CONDUCTOR SHIELDED CABLE
	TIME DELAY RELAY CONTACTS (NORMALLY OPEN, TIME OUT DE-ENERGIZED)		P.C. BREAKER RELAY CONTACTS (NORMALLY OPEN, TIME OUT DE-ENERGIZED)		INDICATES WIRE JUMPER USED IN THE MOTOR CONTROL CENTER. USE ONLY SPECIFICALLY SHOWN ON THE CONTROL WIRING. WIRING SHALL BE TERMINATED TO TERMINAL BLOCKS. ALSO REFER TO THE CONTACT BACKLOGS FOR THE CONTACT IDENTIFICATION. THE SYMBOL ONLY APPEARS ON CONTRACT DRAWINGS, AND ON NO OTHER CONTRACT DRAWINGS. INDICATES WIRE JUMPER INDICATES WIRE JUMPER USED IN THE MOTOR CONTROL CENTER. USE ONLY SPECIFICALLY SHOWN ON THE CONTROL WIRING. WIRING SHALL BE TERMINATED TO TERMINAL BLOCKS. ALSO REFER TO THE CONTACT BACKLOGS FOR THE CONTACT IDENTIFICATION. THE SYMBOL ONLY APPEARS ON CONTRACT DRAWINGS, AND ON NO OTHER CONTRACT DRAWINGS.

ELECTRICAL DRAWING SYMBOLS		ELECTRICAL DRAWING SYMBOLS		PROTECTIVE RELAY ABBREVIATIONS		PROTECTIVE RELAY ABBREVIATIONS		GENERAL LEGEND	
	1/2" DIA. CONDUIT		3/4" DIA. CONDUIT		1" DIA. CONDUIT		1 1/2" DIA. CONDUIT		2" DIA. CONDUIT
	3" DIA. CONDUIT		4" DIA. CONDUIT		6" DIA. CONDUIT		8" DIA. CONDUIT		10" DIA. CONDUIT
	12" DIA. CONDUIT		14" DIA. CONDUIT		16" DIA. CONDUIT		18" DIA. CONDUIT		20" DIA. CONDUIT
	22" DIA. CONDUIT		24" DIA. CONDUIT		26" DIA. CONDUIT		28" DIA. CONDUIT		30" DIA. CONDUIT
	32" DIA. CONDUIT		34" DIA. CONDUIT		36" DIA. CONDUIT		38" DIA. CONDUIT		40" DIA. CONDUIT
	42" DIA. CONDUIT		44" DIA. CONDUIT		46" DIA. CONDUIT		48" DIA. CONDUIT		50" DIA. CONDUIT
	52" DIA. CONDUIT		54" DIA. CONDUIT		56" DIA. CONDUIT		58" DIA. CONDUIT		60" DIA. CONDUIT
	62" DIA. CONDUIT		64" DIA. CONDUIT		66" DIA. CONDUIT		68" DIA. CONDUIT		70" DIA. CONDUIT
	72" DIA. CONDUIT		74" DIA. CONDUIT		76" DIA. CONDUIT		78" DIA. CONDUIT		80" DIA. CONDUIT
	82" DIA. CONDUIT		84" DIA. CONDUIT		86" DIA. CONDUIT		88" DIA. CONDUIT		90" DIA. CONDUIT
	92" DIA. CONDUIT		94" DIA. CONDUIT		96" DIA. CONDUIT		98" DIA. CONDUIT		100" DIA. CONDUIT
	102" DIA. CONDUIT		104" DIA. CONDUIT		106" DIA. CONDUIT		108" DIA. CONDUIT		110" DIA. CONDUIT
	112" DIA. CONDUIT		114" DIA. CONDUIT		116" DIA. CONDUIT		118" DIA. CONDUIT		120" DIA. CONDUIT
	122" DIA. CONDUIT		124" DIA. CONDUIT		126" DIA. CONDUIT		128" DIA. CONDUIT		130" DIA. CONDUIT
	132" DIA. CONDUIT		134" DIA. CONDUIT		136" DIA. CONDUIT		138" DIA. CONDUIT		140" DIA. CONDUIT
	142" DIA. CONDUIT		144" DIA. CONDUIT		146" DIA. CONDUIT		148" DIA. CONDUIT		150" DIA. CONDUIT
	152" DIA. CONDUIT		154" DIA. CONDUIT		156" DIA. CONDUIT		158" DIA. CONDUIT		160" DIA. CONDUIT
	162" DIA. CONDUIT		164" DIA. CONDUIT		166" DIA. CONDUIT		168" DIA. CONDUIT		170" DIA. CONDUIT
	172" DIA. CONDUIT		174" DIA. CONDUIT		176" DIA. CONDUIT		178" DIA. CONDUIT		180" DIA. CONDUIT
	182" DIA. CONDUIT		184" DIA. CONDUIT		186" DIA. CONDUIT		188" DIA. CONDUIT		190" DIA. CONDUIT
	192" DIA. CONDUIT		194" DIA. CONDUIT		196" DIA. CONDUIT		198" DIA. CONDUIT		200" DIA. CONDUIT
	202" DIA. CONDUIT		204" DIA. CONDUIT		206" DIA. CONDUIT		208" DIA. CONDUIT		210" DIA. CONDUIT
	212" DIA. CONDUIT		214" DIA. CONDUIT		216" DIA. CONDUIT		218" DIA. CONDUIT		220" DIA. CONDUIT
	222" DIA. CONDUIT		224" DIA. CONDUIT		226" DIA. CONDUIT		228" DIA. CONDUIT		230" DIA. CONDUIT
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	322" DIA. CONDUIT		324" DIA. CONDUIT		326" DIA. CONDUIT		328" DIA. CONDUIT		330" DIA. CONDUIT
	332" DIA. CONDUIT		334" DIA. CONDUIT		336" DIA. CONDUIT		338" DIA. CONDUIT		340" DIA. CONDUIT
	342" DIA. CONDUIT		344" DIA. CONDUIT		346" DIA. CONDUIT		348" DIA. CONDUIT		350" DIA. CONDUIT
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	362" DIA. CONDUIT		364" DIA. CONDUIT		366" DIA. CONDUIT		368" DIA. CONDUIT		370" DIA. CONDUIT
	372" DIA. CONDUIT		374" DIA. CONDUIT		376" DIA. CONDUIT		378" DIA. CONDUIT		380" DIA. CONDUIT
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	392" DIA. CONDUIT		394" DIA. CONDUIT		396" DIA. CONDUIT		398" DIA. CONDUIT		400" DIA. CONDUIT
	402" DIA. CONDUIT		404" DIA. CONDUIT		406" DIA. CONDUIT		408" DIA. CONDUIT		410" DIA. CONDUIT
	412" DIA. CONDUIT								

1 ALL EQUIPMENT DEPICTED ON THIS DRAWING IS EXISTING.
CLOSELY AND CAREFULLY COORDINATE/VERIFY ALL POINTS OF
CONNECTION PRIOR TO COMMENCING ACTIVITIES RELATED TO THIS
EQUIPMENT

- AN ATTEMPT IS MADE TO SHOW ALL EXISTING EQUIPMENT ON THIS ELECTRICAL ONE-LINE DIAGRAM. REGARDLESS, THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXISTENCE, LOCATION AND TYPE OF EQUIPMENT ACTUALLY INSTALLED IN THE FIELD, INCLUDING APPLICABLE CONDUIT/WIRING FOR ELECTRICAL SERVICE TO EXISTING EQUIPMENT WHETHER SHOWN HERE OR NOT

3. EQUIPMENT TAGS/NAMES HAVE BEEN ARBITRARILY ASSIGNED TO AND IN THE DRAWINGS. SOME EXISTING TAGS/NAMES HAVE BEEN USED WHERE POSSIBLE. CONTRACTOR SHALL MAKE EXTENSIVE VERIFICATION OF EXISTING EQUIPMENT PRIOR TO COMMENCING FULL SCALE ACTIVITIES RELATED TO THIS EQUIPMENT.

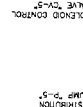
E-OL-002 - ONE-LINE DIAGRAM CONTINUATION

E-OL-002 - ONE-LINE DIAGRAM CONTINUATION

E-FP-001 - PUMP STATION FLOOR PLAN

E-OL-014 - MCC ELEVATION

E-SP-002 - OVERALL SITE PLAN



PUMP "A"
SOLENOID CONTROL VALVE "C"
O TELEMETRY CONTROL CABINET

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**HARUTUNIAN
ENGINEERING
INCORPORATED**
ENGINEERING AND ENVIRONMENTAL CONSULTANTS
505 EAST HUNTLAND DRIVE
SUITE 500
DALLAS, TEXAS 75206
(214) 343-8800

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Water District No. 10 and Harrisburg, Pa.

— 6 —

6. $\frac{1}{2}$ gal
HEI
400 cc @
HEI
0.45
HEI
5.00 gal @ 100
FEBRUARY 2005

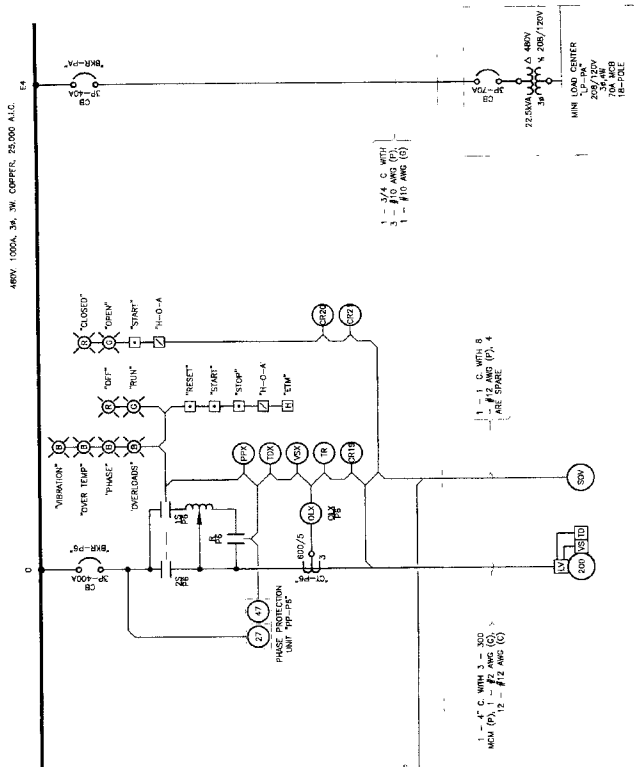
RAVIS COUNTY
DETA

STRICT NO 10

1 ALL EQUIPMENT DEPICTED ON THIS DRAWING IS EXISTING.
CLOSELY AND CAREFULLY COORDINATE/VERIFY ALL POINTS OF
CONNECTION PRIOR TO COMMENCING ACTIVITIES RELATED TO THIS
EQUIPMENT

- AN ATTEMPT IS MADE TO LINK ALL EXISTING EQUIPMENT ON THIS ELECTRICAL ONE-LINE DIAGRAM REGARDLESS OF THE TYPE OF EQUIPMENT. THE CONTRACTOR SHALL VERIFY THE LOCATION AND TYPE OF EACH EXISTING EQUIPMENT, INCLUDING ANY APPLICABLE CONDUIT/WIRING FOR ELECTRICAL SERVICE TO EXISTING EQUIPMENT WHETHER SHOWN HERE OR NOT.
- 2.
- 3.

E-OL-001 - ONE-LINE DIAGRAM CONTINUATION
E-PP-001 - PUMP STATION FLOOR PLAN
E-OL-014 - MCC ELEVATION
E-SB-002 - OVERALL SITE PLAN



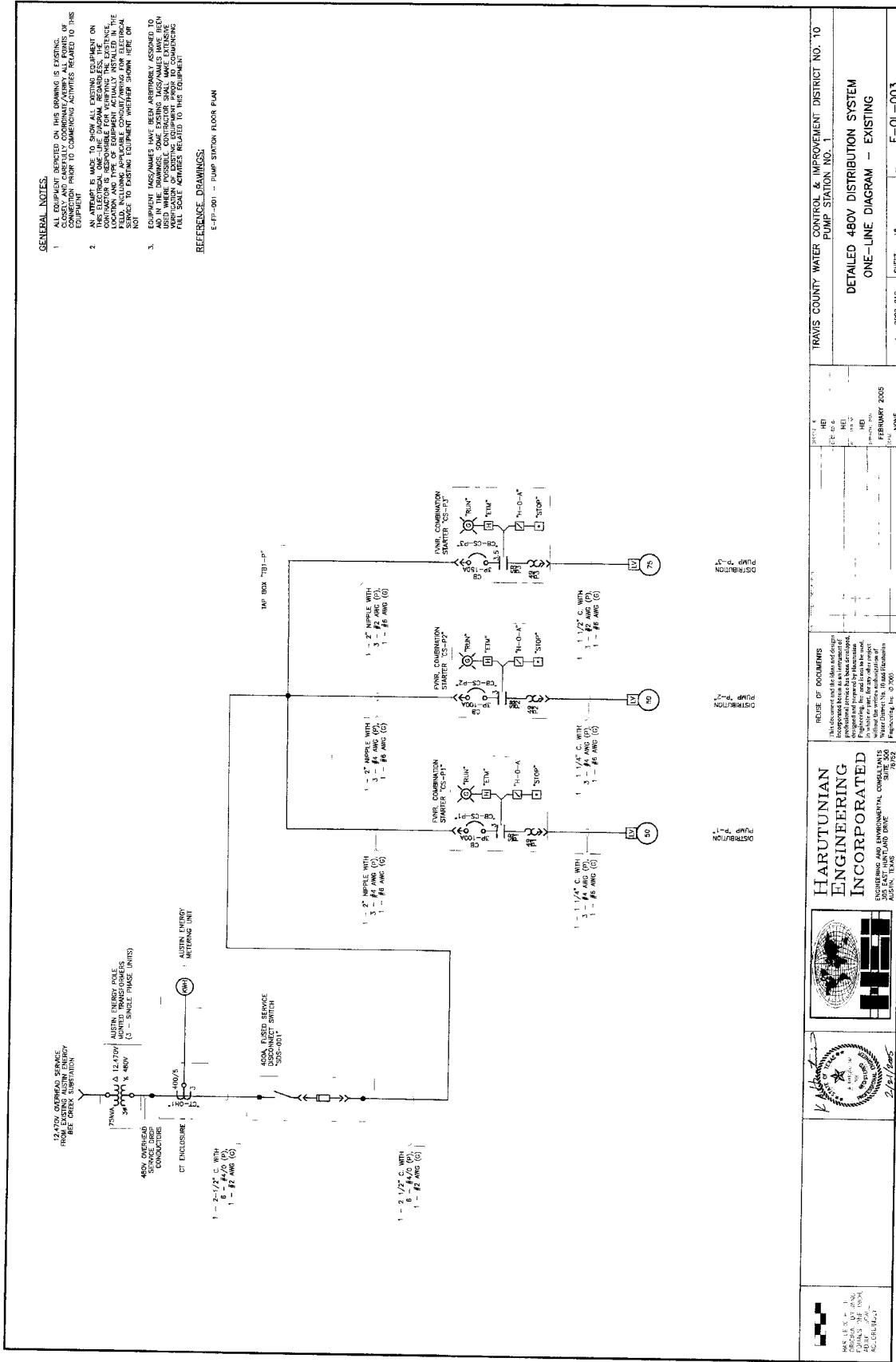
SEE DRAWING NO. E-07-001

9-6. dms
NOLLEST

9-6. VALVE CONTROL
TOMMY

MINI COM
CENTER LP-PA

[illegible]



GENERAL NOTES:

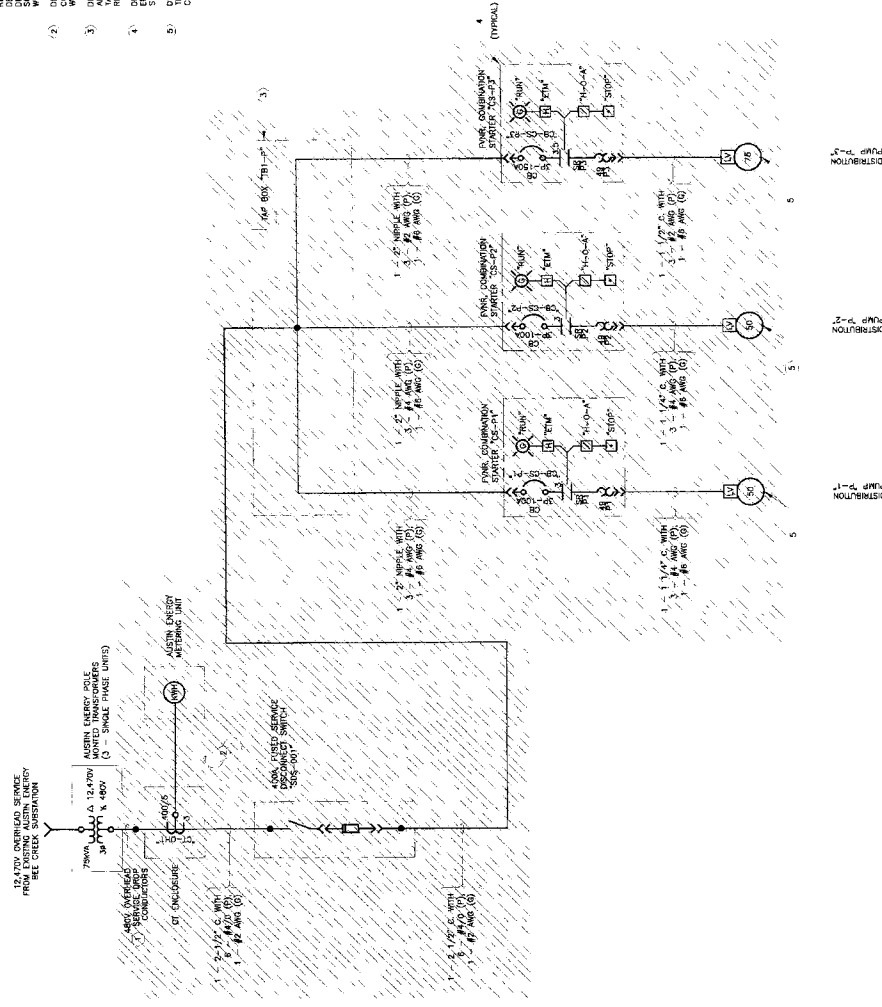
1. ALL WORK SHOWN ON THIS DRAWING IS EXISTING, UNLESS INDICATED OTHERWISE. VERIFY ALL POINTS OF CONNECTION AND CAREFULLY COORDINATE/VERIFY ALL POINTS OF CONNECTION PRIOR TO COMMENCING ACTIVITIES RELATED TO THIS CONNECTION.
2. AN ATTEMPT IS MADE TO SHOW ALL EXISTING UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXISTENCE, LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO ANY CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPLICABLE CODES/ORDINANCES FOR ELECTRICAL SERVICE TO EXISTING EQUIPMENT. WIRELESS SIGNALS ARE NOT TO BE ASSUMED TO EXIST.
3. EQUIPMENT RACKS/MAINTENANCE POSTS/ENCLOSURES HAVE BEEN USED WHERE POSSIBLE. CONTRACTOR SHALL MAKE EXTENSIVE VERIFICATION OF THE INFORMATION SHOWN HEREIN IS BASED ON THE INFORMATION PROVIDED BY THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE INFORMATION SHOWN HEREIN IS BASED ON THE INFORMATION PROVIDED BY THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE INFORMATION SHOWN HEREIN IS BASED ON THE INFORMATION PROVIDED BY THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE INFORMATION SHOWN HEREIN IS BASED ON THE INFORMATION PROVIDED BY THE OWNER.
4. THE INFORMATION SHOWN HEREIN IS BASED ON THE INFORMATION PROVIDED BY THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE INFORMATION SHOWN HEREIN IS BASED ON THE INFORMATION PROVIDED BY THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE INFORMATION SHOWN HEREIN IS BASED ON THE INFORMATION PROVIDED BY THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE INFORMATION SHOWN HEREIN IS BASED ON THE INFORMATION PROVIDED BY THE OWNER.
5. EXISTING ELECTRICAL CABLES SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH THE CITY OF AUSTIN'S SOLID WASTE DEPARTMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPLICABLE CODES/ORDINANCES FOR ELECTRICAL SERVICE TO EXISTING EQUIPMENT. WIRELESS SIGNALS ARE NOT TO BE ASSUMED TO EXIST.
6. WHEN ANY EXISTING EQUIPMENT IS DISCONNECTED, REMOVED, RELOCATED OR OTHERWISE MODIFIED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE PROTECTION FOR ALL EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE PROTECTION FOR ALL EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE PROTECTION FOR ALL EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE PROTECTION FOR ALL EXISTING UTILITIES.
7. UNLESS OTHERWISE NOTED AND SHOWN, ALL SERVICES ON DRAWING E-P-001 - PUMP STATION FLOOR PLAN SHALL BE IN ACCORDANCE WITH THE CITY OF AUSTIN'S SOLID WASTE DEPARTMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPLICABLE CODES/ORDINANCES FOR ELECTRICAL SERVICE TO EXISTING EQUIPMENT. WIRELESS SIGNALS ARE NOT TO BE ASSUMED TO EXIST.
8. REMOVE ALL ASSOCIATED WIRING/HARDWARE/TELEPHONE CABLES/CONDUITS/PIPELINES/ETC. UNLESS OTHERWISE NOTED, ALL SUCH REMOVALS SHALL BE IN ACCORDANCE WITH THE CITY OF AUSTIN'S SOLID WASTE DEPARTMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPLICABLE CODES/ORDINANCES FOR ELECTRICAL SERVICE TO EXISTING EQUIPMENT. WIRELESS SIGNALS ARE NOT TO BE ASSUMED TO EXIST.

REFERENCE DRAWINGS:

- E-P-002 - PUMP STATION FLOOR PLAN
- E-P-001 - CONSTRUCTION SEQUENCE

KEY NOTES:

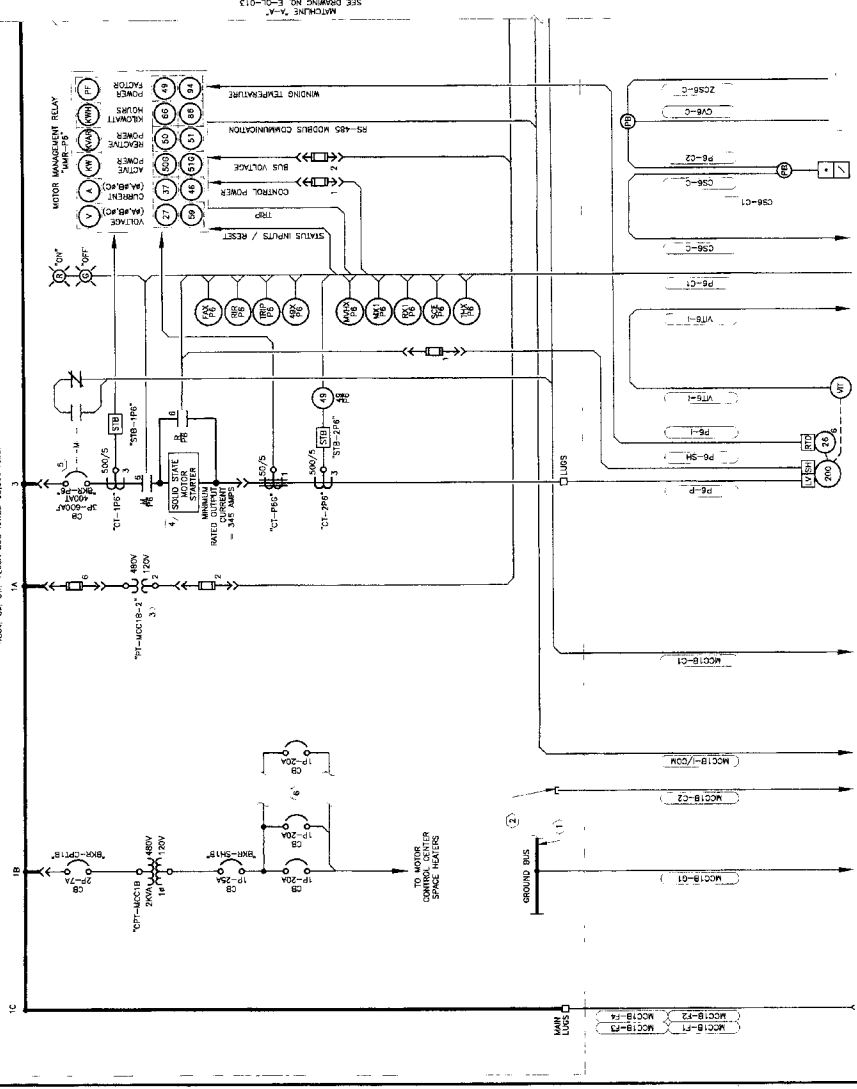
1. EXISTING OVERHEAD SERVICE DROP TO BE DISCONNECTED AND REMOVED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPLICABLE CODES/ORDINANCES FOR ELECTRICAL SERVICE TO EXISTING EQUIPMENT. WIRELESS SIGNALS ARE NOT TO BE ASSUMED TO EXIST.
2. DISCONNECT AND REMOVE ALL SERVICES/INSTRUMENTS/ETC. IN ACCORDANCE WITH THE RECOMMENDED CONSTRUCTION SEQUENCE.
3. DISCONNECT AND REMOVE EXISTING TWO (2) WIRE/THREE (3) WIRE/FOUR (4) WIRE/ETC. SERVICES/INSTRUMENTS/ETC. IN ACCORDANCE WITH THE RECOMMENDED CONSTRUCTION SEQUENCE.
4. DISCONNECT AND REMOVE EXISTING COMMUNICATION LINES IN ITS ENTIRETY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPLICABLE CODES/ORDINANCES FOR ELECTRICAL SERVICE TO EXISTING EQUIPMENT. WIRELESS SIGNALS ARE NOT TO BE ASSUMED TO EXIST.
5. DISCONNECT AND REMOVE EXISTING MOTOR AND ASSOCIATED WIRING/ETC. IN ACCORDANCE WITH THE RECOMMENDED CONSTRUCTION SEQUENCE.



TRANS COUNTY WATER CONTROL & IMPROVEMENT DISTRICT NO. 10		PUMP STATION NO. 1		200-210		21		E-OL-006	
DETAILED 480V DISTRIBUTION SYSTEM		ONE-LINE DIAGRAM - DEMOLITION		200-210		21		E-OL-006	
REVISIONS		DATE		BY		APP'D		DATE	
1		2/1/2008		2/1/2008		2/1/2008		2/1/2008	
2		2/1/2008		2/1/2008		2/1/2008		2/1/2008	
3		2/1/2008		2/1/2008		2/1/2008		2/1/2008	
4		2/1/2008		2/1/2008		2/1/2008		2/1/2008	
5		2/1/2008		2/1/2008		2/1/2008		2/1/2008	
6		2/1/2008		2/1/2008		2/1/2008		2/1/2008	
7		2/1/2008		2/1/2008		2/1/2008		2/1/2008	
8		2/1/2008		2/1/2008		2/1/2008		2/1/2008	
9		2/1/2008		2/1/2008		2/1/2008		2/1/2008	
10		2/1/2008		2/1/2008		2/1/2008		2/1/2008	

PROPOSED 480V MOTOR CONTROL CENTER "MCC-001B"

480V, 3Ø, 3W, 120/208V BUS RATED 65,000 A.I.C.



KEY NOTES:

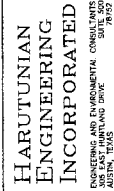
1. THE FULL SIZE MOTOR CONTROL CENTER (MCC) GROUND BUS SHALL EXTEND THE ENTIRE LENGTH OF THE MCC.
2. CAP CIRCUIT FOR FUSE USE. REFER TO FUTURE CONDUIT SUB-UP DRAWING NO. E-011-004.
3. PROPOSED INTERNAL TRANSFORMER SHALL BE SPECIFIED BY THE MANUFACTURER.
4. THE MANUFACTURER SHALL PROVIDE A MINIMUM STAY-ON CURRENT INCREASE TO ALL PROPOSED MOTOR BREAKERS.
5. THE MANUFACTURER SHALL PROVIDE A MINIMUM STAY-ON CURRENT INCREASE TO ALL PROPOSED MOTOR BREAKERS.
6. THE MANUFACTURER SHALL PROVIDE A MINIMUM STAY-ON CURRENT INCREASE TO ALL PROPOSED MOTOR BREAKERS.
7. THE MANUFACTURER SHALL PROVIDE A MINIMUM STAY-ON CURRENT INCREASE TO ALL PROPOSED MOTOR BREAKERS.
8. THE MANUFACTURER SHALL PROVIDE A MINIMUM STAY-ON CURRENT INCREASE TO ALL PROPOSED MOTOR BREAKERS.
9. THE MANUFACTURER SHALL PROVIDE A MINIMUM STAY-ON CURRENT INCREASE TO ALL PROPOSED MOTOR BREAKERS.
10. THE MANUFACTURER SHALL PROVIDE A MINIMUM STAY-ON CURRENT INCREASE TO ALL PROPOSED MOTOR BREAKERS.

GENERAL NOTES:

1. THE MANUFACTURER SHALL PROVIDE A MINIMUM STAY-ON CURRENT INCREASE TO ALL PROPOSED MOTOR BREAKERS.
2. THE MANUFACTURER SHALL PROVIDE A MINIMUM STAY-ON CURRENT INCREASE TO ALL PROPOSED MOTOR BREAKERS.
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8. THE MANUFACTURER SHALL PROVIDE A MINIMUM STAY-ON CURRENT INCREASE TO ALL PROPOSED MOTOR BREAKERS.
9. THE MANUFACTURER SHALL PROVIDE A MINIMUM STAY-ON CURRENT INCREASE TO ALL PROPOSED MOTOR BREAKERS.
10. THE MANUFACTURER SHALL PROVIDE A MINIMUM STAY-ON CURRENT INCREASE TO ALL PROPOSED MOTOR BREAKERS.

REFERENCE DRAWINGS:

- E-011-007 - E-011-013 - ONE-LINE DIAGRAMS
- E-011-014 - MCC POINT ELEVATION
- E-011-015 - EQUIPMENT ARRANGEMENT
- E-011-016 - POWER MONITORING UNIT WIRING SCHEMATIC
- E-011-017 - THREE SURGE PROTECTOR WIRING SCHEMATIC
- E-011-018 - E-011-021 - PUMP MOTOR CONTROL LOGIC
- E-011-022 - PLC ARCHITECTURE
- E-011-023 - E-011-024 - CONDUIT SCHEMATICS



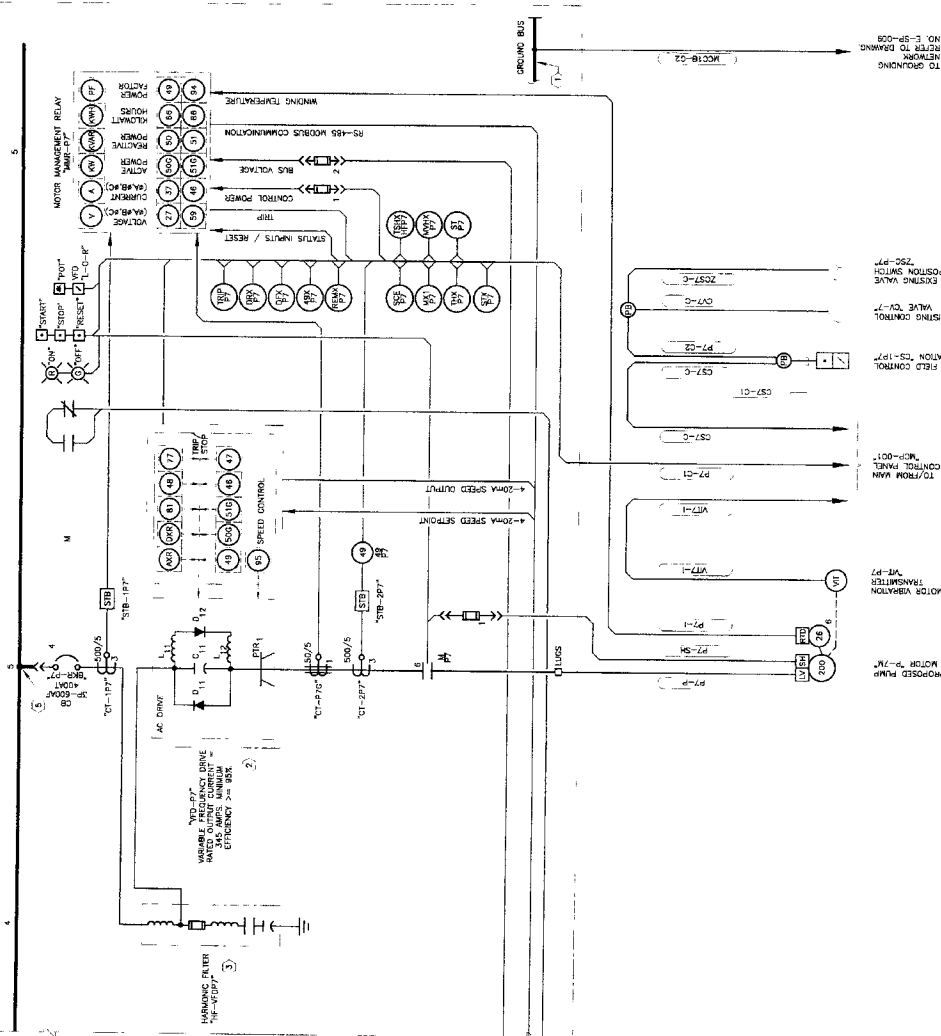
HARUTUNIAN ENGINEERING INCORPORATED
ENGINEERING AND CONSTRUCTION
1000 N. GULF Fwy, Suite 100
AUSTIN, TEXAS 78702

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TRANS COUNTY WATER CONTROL & IMPROVEMENT DISTRICT NO. 10		PUMP STATION NO. 1	
480V MOTOR CONTROL CENTER "MCC-001B"		DETAIL ONE-LINE DIAGRAM	
(SHEET 1 OF 2)		(SHEET 27 OF 27)	
E-011-012		E-011-012	

PROPOSED 480V MOTOR CONTROL CENTER "MCC-001B"

480V, 3Ø, 3W, 120/208 BUS VOLTED 55,000 A.I.C.



KEY NOTES:

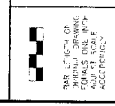
1. THE FINAL MOTOR CONTROL CENTER (MCC) SHALL HAVE A MINIMUM OUTPUT CURRENT RATING OF 55,000 A.I.C.
2. PROPOSED VARIABLE FREQUENCY DRIVE (VFD) SHALL HAVE A MINIMUM OUTPUT CURRENT RATING OF 55,000 A.I.C. AND A MINIMUM EFFICIENCY OF 95%.
3. FINISH AND INSTALL ABOVE WORKING FILED ASSEMBLY MANUALLY SATED ABOVE. 383 AMPERE 80 KVAH. PLEASE NOTE THAT THE MOTOR CONTROL CENTER DIMENSIONS SHALL BE AS SHOWN IN THE DRAWINGS AND THE LOCATION AND FLOOR PLAN DIMENSIONS.
4. CIRCUIT BREAKER WITH VOLTAGE SENSITIVE ELECTRONIC TRIP UNIT TRIP UNIT SHALL HAVE A MINIMUM RATING OF 55,000 A.I.C. AND A MINIMUM EFFICIENCY OF 95%.
5. THE HARMONIC DISTORTION LIMITS AS DESCRIBED IN THE CONTRACT SPECIFICATIONS SHALL BE AS SHOWN IN THE DRAWINGS AND THE LOCATION AND FLOOR PLAN DIMENSIONS.

GENERAL NOTES:

1. THE MANUFACTURER OF THE CIRCUIT BREAKER, VFD, AND MOTOR SHALL BE DETERMINED BY THE MANUFACTURER. THE LOCATION AND SIZE OF THE MOTOR CONTROL CENTER, CIRCUIT BREAKER, VFD, AND MOTOR SHALL BE DETERMINED BY THE MANUFACTURER. THE MANUFACTURER SHALL BE RESPONSIBLE FOR THE LOCATION AND SIZE OF THE MOTOR CONTROL CENTER, CIRCUIT BREAKER, VFD, AND MOTOR. THE MANUFACTURER SHALL BE RESPONSIBLE FOR THE LOCATION AND SIZE OF THE MOTOR CONTROL CENTER, CIRCUIT BREAKER, VFD, AND MOTOR.
2. THE MANUFACTURER SHALL BE RESPONSIBLE FOR THE LOCATION AND SIZE OF THE MOTOR CONTROL CENTER, CIRCUIT BREAKER, VFD, AND MOTOR. THE MANUFACTURER SHALL BE RESPONSIBLE FOR THE LOCATION AND SIZE OF THE MOTOR CONTROL CENTER, CIRCUIT BREAKER, VFD, AND MOTOR.
3. NOT ALL EQUIPMENT IS SHOWN FOR CLARITY.

REFERENCE DRAWINGS:

- E-OL-007 - E-OL-013 - ONE-LINE DIAGRAMS
- E-OL-018 - MCC FRONT ELEVATION
- E-PP-004 - EQUIPMENT ARRANGEMENT
- E-PP-003 - E-PP-004 - PUMP MOTOR CONTROL LOGIC
- E-PP-001 - PLC LOGIC
- E-PP-002 - E-PP-003 - CONDUIT SCHEDULE



HARUTUNIAN ENGINEERING INCORPORATED
ENGINEERING AND ENVIRONMENTAL CONSULTANTS
10000 JEFFERSON AVE. SUITE 100
HOUSTON, TEXAS 77036

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DATE: 02/01/2005
BY: [Signature]
CHECKED BY: [Signature]
APPROVED BY: [Signature]

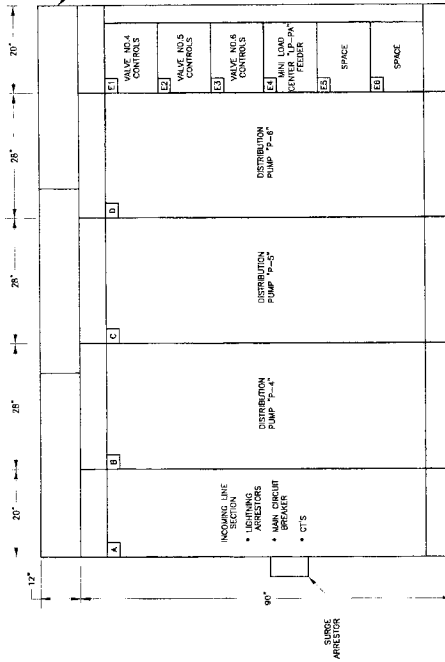
TRAVIS COUNTY WATER CONTROL & IMPROVEMENT DISTRICT NO. 10	PUMP STATION NO. 1
480V MOTOR CONTROL CENTER "MCC-001B"	DETAILED ONE-LINE DIAGRAM (SHEET 2 OF 2)
DATE: 02/01/2005	SHEET 28
PROJECT NO. 2002-210	E-OL-013

GENERAL NOTES

1. ALL WORKMANSHIP SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70B. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70B.
2. THE ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70B. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70B.
3. EQUIPMENT TAGS/NAMES HAVE BEEN ASSIGNED TO THE EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECT IDENTIFICATION OF THE EQUIPMENT. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70B.

REFERENCE DRAWINGS

- E-01-01 - E-01-02 - ONE-LINE DIAGRAM
- E-01-01 - PUMP STATION FLOOR PLAN



EXISTING 480V MOTOR CONTROL CENTER FRONT ELEVATION

SCALE: NTS

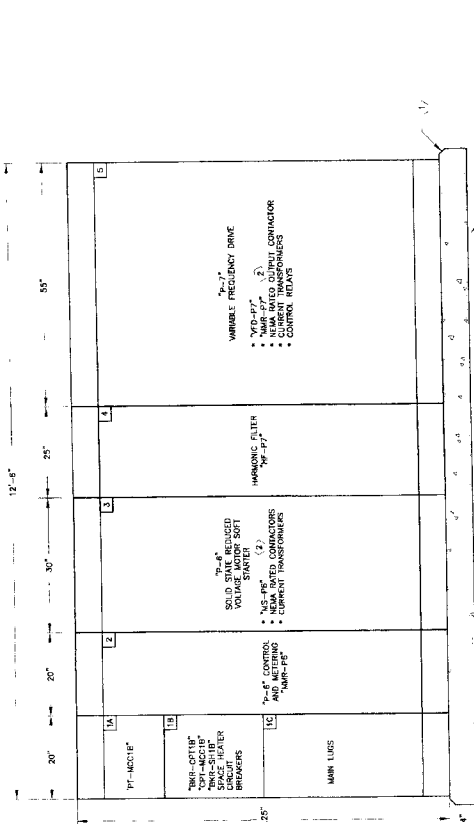
NO CONCRETE WORKING AND EXIST. SEE RESTS DIRECTLY ON FINISHED FLOOR

 HARUTUNIAN ENGINEERING INCORPORATED ENGINEERING AND ARCHITECTURAL CONSULTANTS AUSTIN, TEXAS		TRANS COUNTY WATER CONTROL & IMPROVEMENT DISTRICT NO. 10 PUMP STATION NO. 1	
480V MOTOR CONTROL CENTER ELEVATION - EXISTING		DATE: 2/25/2010 SHEET: 25	
PROJECT NO.: 2002-210 DATE: 2/25/2010 DRAWN BY: [Signature] CHECKED BY: [Signature] APPROVED BY: [Signature]		PROJECT NO.: 2002-210 DATE: 2/25/2010 DRAWN BY: [Signature] CHECKED BY: [Signature] APPROVED BY: [Signature]	

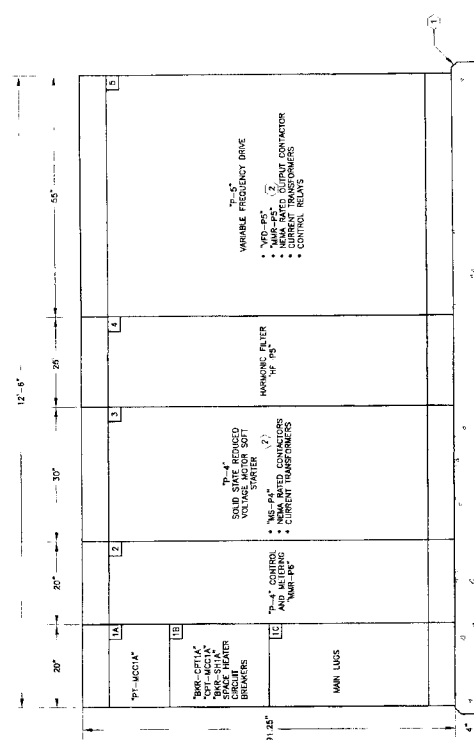
KEY NOTES:

- THE CONCRETE HOUSING PAD IS CONTINUOUS FOR THE ENTIRE LENGTH OF THE MOTOR CENTER.
 - MINIMUM CLEARANCE HEIGHT OF MOTOR MANAGEMENT RELAYS SHALL EXCEED 8'-0" TO TOP OF MOTOR MANAGEMENT RELAY. VERIFY MOUNTING HEIGHT IN SUBMITTALS.
- GENERAL NOTES:**
- THE ACTUAL RECORD SIZE OF THE CONCRETE DRINKAGE AREA IS TO BE DETERMINED BY THE MANUFACTURER. THE LOCATION AND SIZE OF THE MOTOR CONTROL CENTER SHALL BE DETERMINED BY THE CONCRETE FOUNDATION PLANS OF ELECTRICAL BUILDING.
 - ACTUAL SIZE/OUT OF EQUIPMENT TO BE VERIFIED/COORDINATED WITH MANUFACTURER'S ELECTRICAL/MECHANICAL DRAWINGS.
 - THE PROPOSED 480V MOTOR CONTROL CENTERS SHOWN HEREIN SHALL BE FRONT ACCESS ONLY.
 - LOCATIONS AND SIZES OF ELECTRICAL EQUIPMENT SHOWN ARE APPROXIMATE. MANUFACTURER'S SUBMITTALS SHALL BE USED TO DETERMINE THE EXACT LOCATION AND ALL TYPES OF CONNECTIONS FROM TO INSTALLATION OF PROPOSED COMPONENTS.

REFERENCE DRAWINGS:
E-OL-010 - E-OL-013 - MCS DETAILED ONE-LINE DIAGRAMS

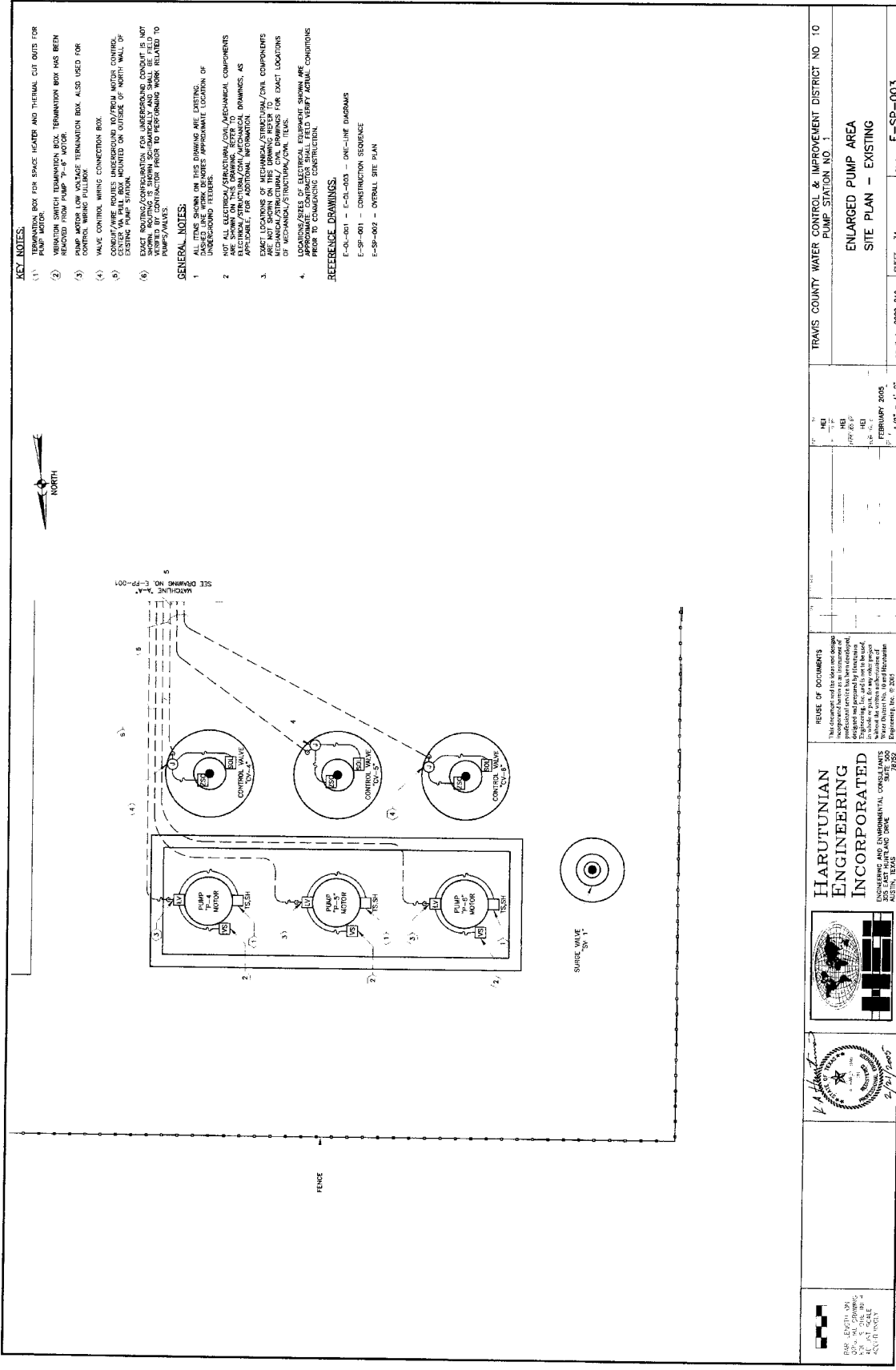


INDOOR CONCRETE HOUSING PADS, ELECTRICAL EQUIPMENT, AND ELECTRICAL EQUIPMENT SHALL BE INSTALLED ON CONCRETE FOUNDATION PLANS OF ELECTRICAL BUILDING. DRAWING NO. E-OL-005.



INDOOR CONCRETE HOUSING PADS, ELECTRICAL EQUIPMENT, AND ELECTRICAL EQUIPMENT SHALL BE INSTALLED ON CONCRETE FOUNDATION PLANS OF ELECTRICAL BUILDING. DRAWING NO. E-OL-005.

						TRANS COUNTY WATER CONTROL & IMPROVEMENT DISTRICT NO. 10 PUMP STATION NO. 1	
HARATUNIAN ENGINEERING INCORPORATED ENGINEERING AND ENVIRONMENTAL CONSULTANTS 200 EAST HANLAND DRIVE AUSTIN, TEXAS 78702		K. Haratunian Professional Engineer State of Texas No. 78922		480V MOTOR CONTROL CENTERS "MCC-001A" AND "MCC-001B" FRONT ELEVATION		E-OL-016	
DATE: 2/2/2005 BY: K. Haratunian CHECKED: K. Haratunian APPROVED: K. Haratunian		REUSE OF DOCUMENTS The drawings and the data and information provided herein have been developed, prepared, and approved by the Engineer, Haratunian Engineering, Inc., and are to be used for the project and for no other purpose without the written authorization of Haratunian Engineering, Inc.		SCALE: NTS		SHEET 31	



KEY NOTES:

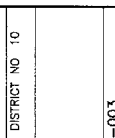
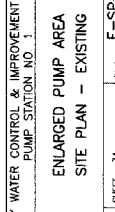
- (1) TERMINATION BOX FOR SPACE HEATER AND THERMAL CUT OUTS FOR PUMP MOTOR.
- (2) VIBRATION SWITCH TERMINATION BOX. TERMINATION BOX HAS BEEN REMOVED FROM PUMP 7B-4 MOTOR.
- (3) PUMP MOTOR LOW VOLTAGE TERMINATION BOX. ALSO USED FOR VIBRATION SWITCH.
- (4) VALVE CONTROL WIRING CONNECTION BOX.
- (5) CONTROL WIRING TERMINATION BOX MOUNTED ON OUTSIDE OF NORTH WALL OF EXISTING PUMP STATION.
- (6) EXISTING ROUTING/CONDUIT FOR UNDERGROUND CONDUIT IS NOT SHOWN. CONTRACTOR SHALL VERIFY EXISTING ROUTING/CONDUIT AND VERIFY BY CONTRACTOR PRIOR TO PERFORMING WORK RELATED TO PUMPS/VALVES.

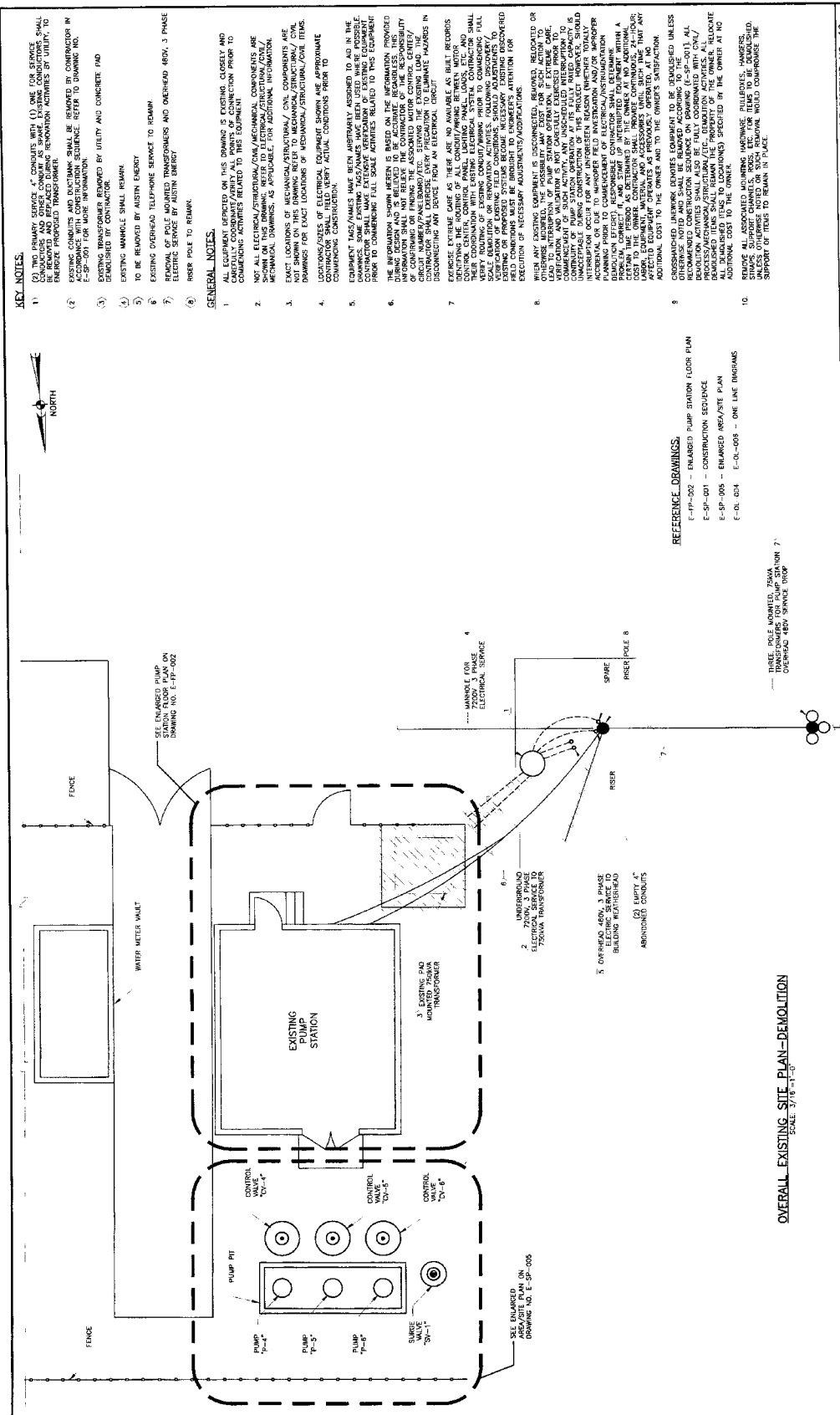
GENERAL NOTES:

- 1. ALL ITEMS SHOWN ON THIS DRAWING ARE EXISTING.
- 2. EXISTING ELECTRICAL/STRUCTURAL/CIVIL/MECHANICAL COMPONENTS ARE SHOWN ON THIS DRAWING. REFER TO EXISTING DRAWINGS, AS APPLICABLE, FOR ADDITIONAL INFORMATION.
- 3. EXISTING LOCATIONS OF MECHANICAL/STRUCTURAL/CIVIL COMPONENTS ARE NOT SHOWN ON THIS DRAWING. REFER TO EXISTING DRAWINGS, AS APPLICABLE, FOR ADDITIONAL INFORMATION.
- 4. LOCATIONS/SIZES OF ELECTRICAL EQUIPMENT SHOWN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY ACTUAL CONDITIONS PRIOR TO COMMENCING CONSTRUCTION.

REFERENCE DRAWINGS:

- E-OL-001 - E-OL-003 - ONE-LINE DIAGRAMS
- E-SP-001 - CONSTRUCTION SEQUENCE
- E-SP-002 - OVERALL SITE PLAN

 HARUTUNIAN ENGINEERING INCORPORATED ENGINEERING AND ENVIRONMENTAL CONSULTANTS 305 EAST SHERIDAN DRIVE MOUNTAIN VIEW, TEXAS 76055	 K. A. Harutunian 2/21/2025	REUSE OF DOCUMENTS The undersigned hereby certifies that the design, engineering, and/or construction documents herein are his original work, or that he is a duly licensed professional engineer and has been duly registered in the State of Texas. He further certifies that he is not providing engineering services to any other party for the same project without the written authorization of the client. If the undersigned is not the author of the design, engineering, and/or construction documents herein, he certifies that the design, engineering, and/or construction documents herein are the work of another duly licensed professional engineer and that he is not providing engineering services to any other party for the same project without the written authorization of the client. If the undersigned is not the author of the design, engineering, and/or construction documents herein, he certifies that the design, engineering, and/or construction documents herein are the work of another duly licensed professional engineer and that he is not providing engineering services to any other party for the same project without the written authorization of the client.	TRAVIS COUNTY WATER CONTROL & IMPROVEMENT DISTRICT NO. 10 PUMP STATION NO. 1 ENLARGED PUMP AREA SITE PLAN - EXISTING	SHEET 34 2009-210 1/2" = 1'-0"	E-SP-003



OVERALL EXISTING SITE PLAN-DEMOLITION

SCALE: 3/16"=1'-0"

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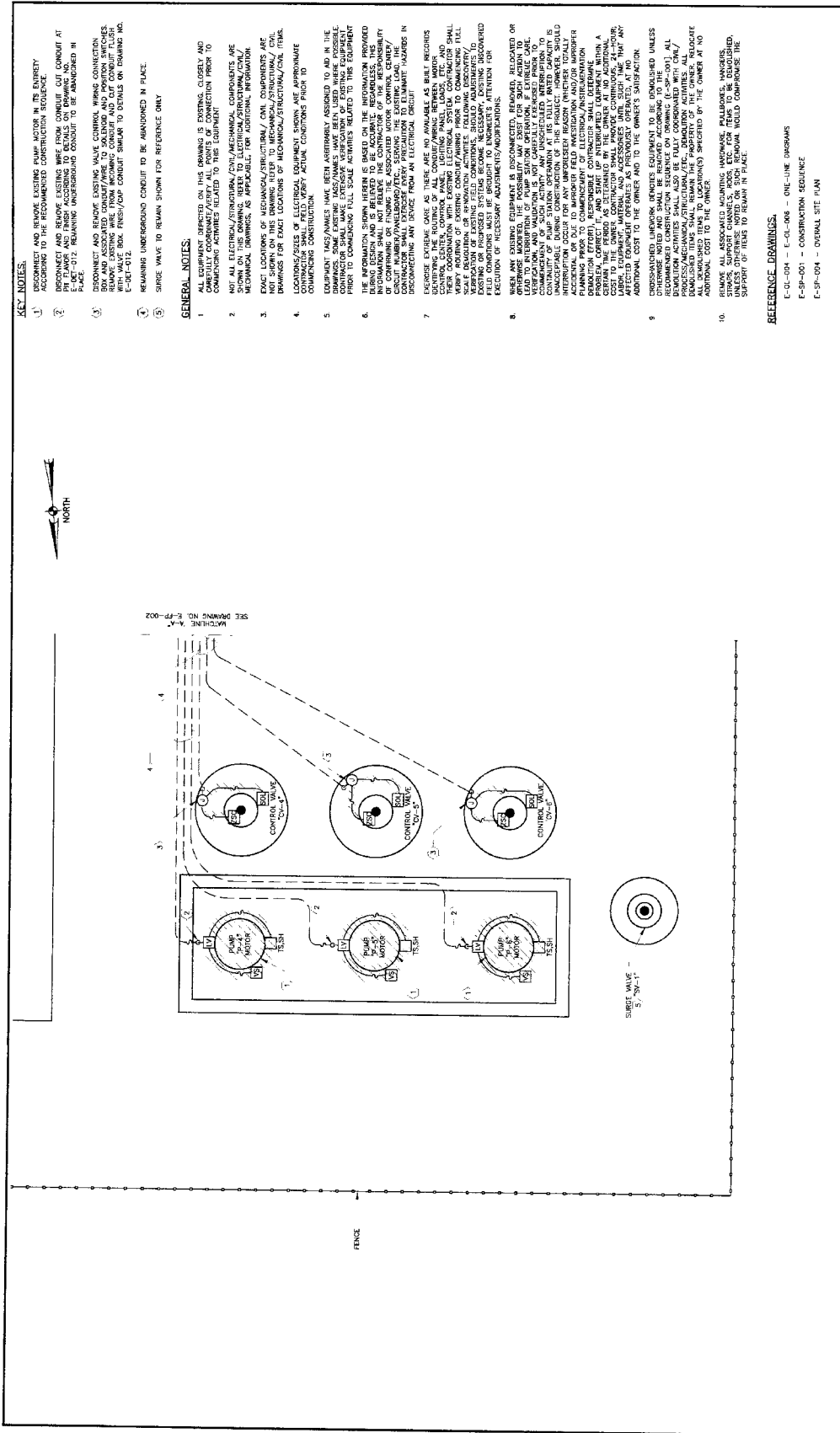
TRAVIS COUNTY WATER CONTROL & IMPROVEMENT DISTRICT NO. 10
PUMP STATION NO. 1

OVERALL SITE PLAN - DEMOLITION

F-SP-004

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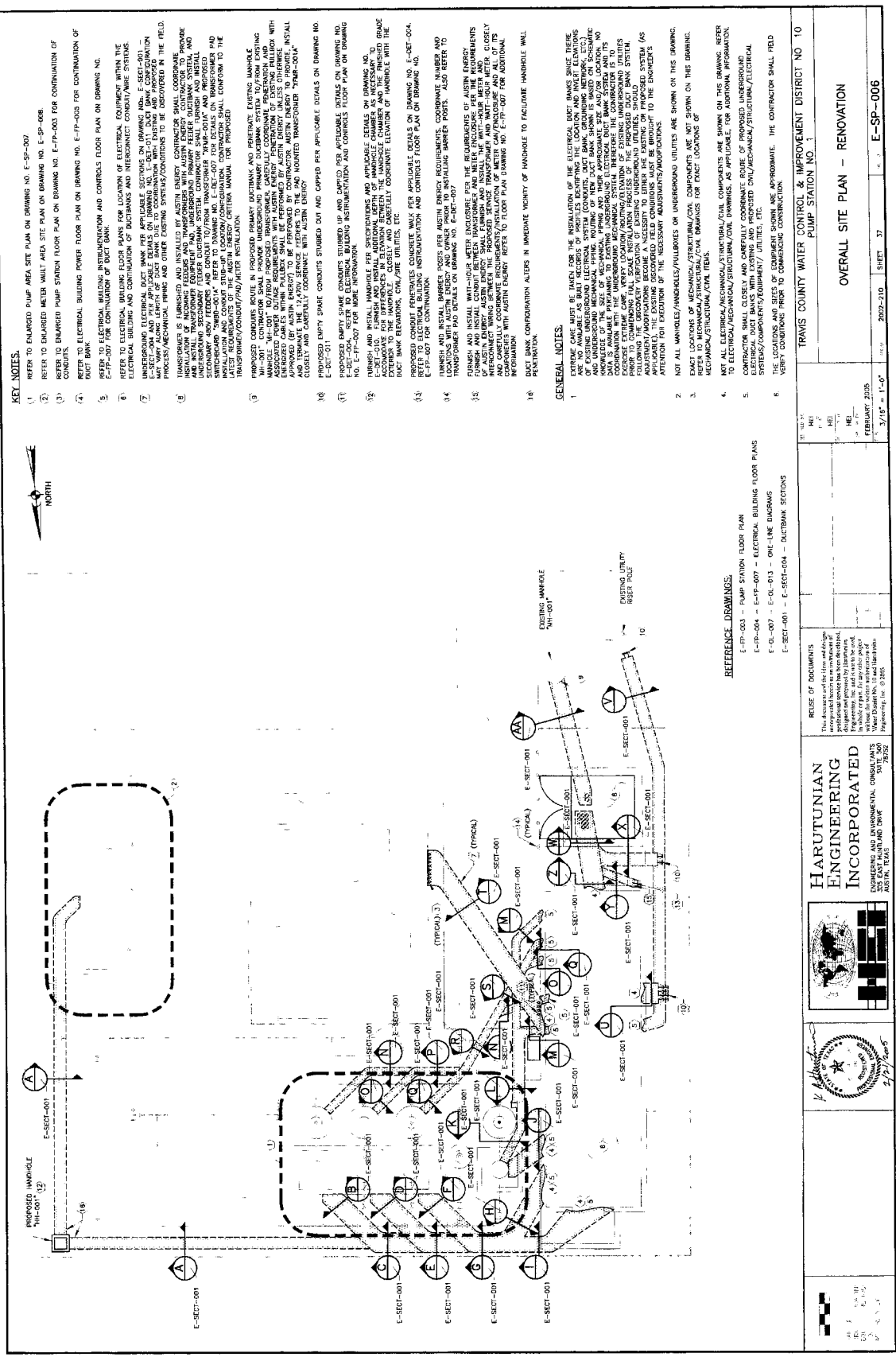


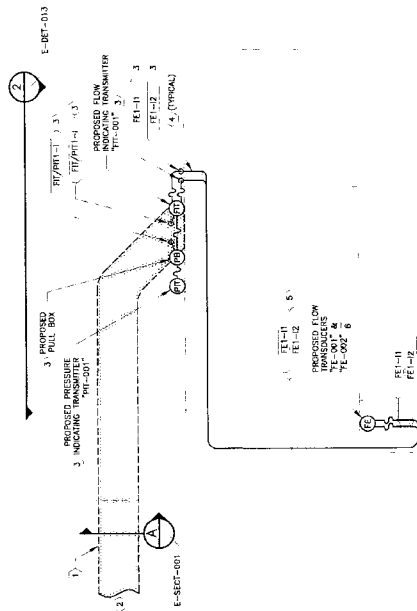
- KEY NOTES:**
1. DISCONNECT AND REMOVE EXISTING PUMP MOTOR IN ITS ENTIRETY ACCORDING TO THE RECOMMENDED CONSTRUCTION SEQUENCE.
 2. DISCONNECT AND REMOVE EXISTING WIRE FROM CONDUIT OUT CONDUIT AT THIS LOCATION TO THE REMAINING UNDERGROUND CONDUIT TO BE REMOVED IN PLACE.
 3. DISCONNECT AND REMOVE EXISTING VALVE CONTROL WIRING CONNECTIONS REMOVED EXISTING WIRE FROM REMAINING CONDUIT AND CUT CONDUIT FLUSH WITH EXISTING BOX. PRESERVE CONDUIT SIMILAR TO DETAILS ON DRAWING NO. E-SP-001.
 4. REMAINING UNDERGROUND CONDUIT TO BE ABANDONED IN PLACE.
 5. SHUT VALVE TO REMAIN SHOWN FOR REFERENCE ONLY.
- GENERAL NOTES:**
1. THE INFORMATION SHOWN ON THIS DRAWING IS BASED ON THE INFORMATION PROVIDED BY THE OWNER. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO COMMENCING FULL SCALE ACTIVITIES RELATED TO THIS EQUIPMENT.
 2. NOT ALL ELECTRICAL/STRUCTURAL/CIVIL/MECHANICAL COMPONENTS ARE SHOWN ON THIS DRAWING. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO COMMENCING FULL SCALE ACTIVITIES RELATED TO THIS EQUIPMENT.
 3. EXACT LOCATIONS OF MECHANICAL/STRUCTURAL/CIVIL COMPONENTS ARE NOT SHOWN ON THIS DRAWING REFER TO MECHANICAL/STRUCTURAL/CIVIL DRAWINGS FOR EXACT LOCATIONS OF MECHANICAL/STRUCTURAL/CIVIL COMPONENTS.
 4. EXISTING UNDERGROUND CONDUIT SHALL BE REMOVED IN PLACE. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO COMMENCING FULL SCALE ACTIVITIES RELATED TO THIS EQUIPMENT.
 5. EQUIPMENT TAGS/NAMES HAVE BEEN ASSIGNABLE ASSIGNED TO AND IN THE DRAWING. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO COMMENCING FULL SCALE ACTIVITIES RELATED TO THIS EQUIPMENT.
 6. THE INFORMATION SHOWN HEREIN IS BASED ON THE INFORMATION PROVIDED BY THE OWNER. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO COMMENCING FULL SCALE ACTIVITIES RELATED TO THIS EQUIPMENT.
 7. EXISTING UNDERGROUND CONDUIT SHALL BE REMOVED IN PLACE. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO COMMENCING FULL SCALE ACTIVITIES RELATED TO THIS EQUIPMENT.
 8. THE INFORMATION SHOWN HEREIN IS BASED ON THE INFORMATION PROVIDED BY THE OWNER. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO COMMENCING FULL SCALE ACTIVITIES RELATED TO THIS EQUIPMENT.
 9. CROSS-HATCHED LINEWORK INDICATES EQUIPMENT TO BE DEMOLISHED UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO COMMENCING FULL SCALE ACTIVITIES RELATED TO THIS EQUIPMENT.
 10. REMOVE ALL ASSOCIATED MOUNTING HARDWARE, PULLBOXES, HANGERS, SUPPORT CHANNELS, HOODS, ETC. FOR ITEMS TO BE DEMOLISHED. SUPPORT OF ITEMS TO REMAIN IN PLACE.

REFERENCE DRAWINGS:

E-OL-004 - E-OL-008 - ONE-LINE DIAGRAMS
 E-SP-001 - CONSTRUCTION SEQUENCE
 E-SP-004 - OVERALL SITE PLAN

TRANS COUNTY WATER CONTROL & IMPROVEMENT DISTRICT NO. 10 PUMP STATION NO. 1	DATE: 11/13/2003 DRAWN BY: J. H. HARRIS CHECKED BY: J. H. HARRIS	SCALE: 1/2" = 1'-0"	REVISIONS:	REUSE OF DOCUMENTS	HARUTUNIAN ENGINEERING INCORPORATED	ENGINEERING AND ENVIRONMENTAL CONSULTANTS 302 EAST SANFORD DRIVE AGONA, TEXAS 75602	PROJECT NO. 10-001	SHEET 36	E-SP-005	ENLARGED PUMP AREA SITE PLAN - DEMOLITION	141	P-TC02054
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UNDERGROUND ELECTRICAL DUCT BANK PER APPLICABLE SECTIONS ON DRAWING NO. E-SECT-001 - E-SECT-004 AND PER APPLICABLE DETAILS ON DRAWING NO. E-DET-011. DUCT BANK CONFIGURATION MAY VARY ALONG LENGTH OF DUCT BANK DUE TO COORDINATION WITH EXISTING AND PROPOSED PROCESS/MECHANICAL PIPING AND OTHER EXISTING STRUCTURE/FOUNDATION TO BE DISCOVERED IN THE FIELD.

2. FURNISH AND INSTALL CONDUIT PER APPLICABLE DETAILS ON DOWNING NO. E-SP-000 FOR CONTINUATION OF DUCT BANK.
3. FURNISH AND INSTALL INSTRUMENT ASSURING DETAIL ON DOWNING NO. E-DET-013.
4. CONDUIT PENETRATION PER APPLICABLE DETAILS ON DOWNING NO. E-DET-004.
5. FURNISH AND INSTALL CONDUIT PER APPLICABLE DETAILS ON DOWNING NO. E-DET-003.
6. FURNISH AND INSTALL ULTRASONIC FLOW TRANSDUCERS PER THE APPLICABLE DETAILS ON DOWNING NO. E-DET-001. SHOW IS APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE APPROPRIATE EXACT LOCATION WITH FLOW TRANSMITTER MANUFACTURER AND COORDINATE EXACT LOCATION WITH LOCATION OF FLOW TRANSDUCER WITH MECHANICAL. ALSO COORDINATE WITH LOCATION OF FLOW TRANSDUCER WITH INSTRUMENTATION.

EXTENSIVE CASE STUDIES ARE GIVEN FOR THE INSTALLATION OF THE ELECTRICAL DUCT BANKS SINCE THERE ARE NO AVAILABLE AS-BUILT RECORDS OF EXISTING IDENTIFYING SYSTEMS, CONDUITS, DUCT BANKS, CONDUIT NETWORKS, ETC. AND THE UNDERGROUND MECHANICAL PIPING ROUTING OF NEW DUCT BANK SYSTEMS IS BASED ON SOME MEASUREMENTS AND RECORDS OF EXISTING SYSTEMS. THE DESIGN IS BASED ON EXISTING DUCT BANK SIZE AND LOCATION. NO DATA IS AVAILABLE PERTAINING TO EXISTING UNDERGROUND ELECTRICAL (ELECTRIC) DUCT BANK SYSTEMS AND ITS COORDINATION IS TO EXERCISE EXTENSIVE CASE STUDY. THE EXISTING DUCT LOCATION/ROUTING/EVALUATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO COMMERCIAL LULU SHALL BE THE RECOVERY (REPAIRATION) OF EXISTING UNDERGROUND UTILITIES, SHALL ANALYZE/ADAPTATIONS BECOME A NECESSITY TO EITHER THE EXISTING OR PROPOSED AS-BUILT (AS-BUILT) RECORDS OF EXISTING UTILITIES AND TO BE ADAPTED TO THE EXISTING AS-BUILT. THE NECESSITY OF ADAPTATION FOR DISCUSSION OF THE NECESSARY

2. ALL MATERIALS/HANDLES/PULLBARS OR UNDERGROUND UTILITIES ARE SHOWN ON THIS DRAWING.
3. ALL EXISTING MECHANICAL/ELECTRICAL/PLUMBING COMPANIES ARE NOT SHOWN ON THIS DRAWING. REFER TO MECHANICAL/STRUCTURAL DRAWINGS FOR ALL EXISTING CONDITIONS OF MECHANICAL/STRUCTURAL/PLUMBING.
4. FOR ALL ELECTRICAL/MECHANICAL/STRUCTURAL/AIR/CLIMATE AREAS SHOWN ON THIS DRAWING, THE FOLLOWING INFORMATION IS PROVIDED:
DRAWINGS, AS APPLICABLE, TO SHOW ADDITIONAL INFORMATION.
5. CONTRACTOR SHALL CLOSELY AND CAREFULLY COORDINATE ROUTE OF PROPOSED CONDUIT/PURIN WITH EXISTING AND PROPOSED MECHANICAL/ELECTRICAL/PLUMBING SYSTEMS/COMPONENTS/EQUIPMENT/UTILITIES, ETC.
6. THE LOCATIONS AND SIZES OF EQUIPMENT SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY EQUIPMENT FROM TO CONSTRUCTION.
7. ALL SHOWN LINKWORK IS SHOWN. DARK UNDERGROUND LOCATIONS PROPOSED FOR UNDERGROUND UTILITIES.

E-CS-001 - E-CS-002 - CONDUIT/WIRE SCHEDULE
E-DET-004, E-DET-006 AND E-DET-013 - DETAILS
E-RWS-001 - E-RWS-003 - CONDUIT SCHEMATICS
E-SP-006 - OVERALL SITE PLAN

SCALE: 1/2" = 1'-0"

		HARUTUNIAN ENGINEERING INCORPORATED ENGINEERING AND ENVIRONMENTAL CONSULTANTS 505 EAST HAWTHORNE DRIVE SUITE 100 DALLAS, TEXAS 75209 Tel: 214-760-0000 Fax: 214-760-0001 E-mail: info@harutunian.com Web: www.harutunian.com	REUSE OF DOCUMENTS This document and the information it contains are the property of Harutunian Engineering Incorporated. It is to be used only for the project and purpose for which it was prepared. It is not to be reproduced, copied, or used for any other project without the express written consent of Harutunian Engineering Incorporated. For and on behalf of Harutunian Engineering Incorporated, the undersigned certifies that the information contained herein is true and correct to the best of his knowledge and belief. _____ Date: 1/27/03 Title: Principal Engineer	TRAVIS COUNTY WATER CONTROL & IMPROVEMENT DISTRICT NO. 10 PUMP STATION NO. 1 ENLARGED METER VAULT AREA SITE PLAN -- RENOVATION 2002-210 SHEET 39 E-SP-008
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KEY NOTES

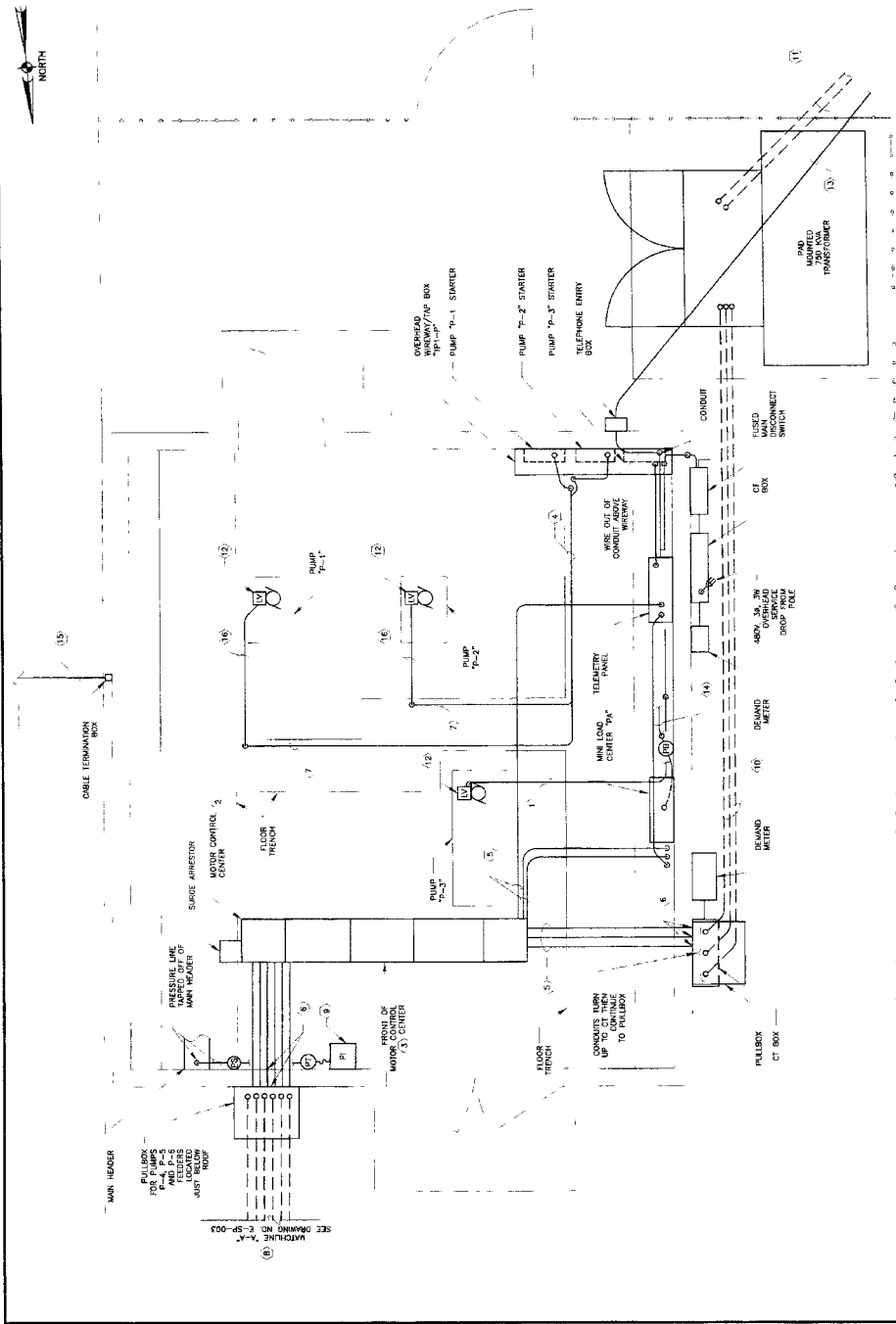
- CONDUIT/WIRE ROUTES OVERHEAD AND GROUPS DOWN TO PUMP 7-1-3 CONNECTION BOX
- WIREMAN/PULLBOX MOUNTED DIRECTLY ON TOP OF EXISTING MOTOR CONTROL CENTER TOP OF HIGHWAY IS AT CENTER
- EXISTING 12" DUCTILE IRON PIPE 10'-0" DIA FOR EXISTING MOTOR CONTROL CENTER ELEVATION
- CONDUIT/WIRE ROUTES STUCK IN TRENCH TO PUMP STARTERS AT SOUTH WALL
- CONDUIT/WIRE ROUTES OVERHEAD TO HIGHWAY ASIDE MOTOR CONTROL CENTER
- CONDUIT/WIRE ENDS BACK OF WIREMAN/PULLBOX FROM WIREMAN ASIDE MOTOR CONTROL CENTER
- CONDUIT/WIRE ROUTES IN PIPE TRENCH
- CONDUIT/WIRE ROUTES UNDERGROUND TO MAKE AREA FOR PUMP POWER & CONTROL
- BREXID BARRECK PRESSURE INDICATOR FOR SECTION PRESSURE OF MAIN HEADER
- WIREMAN/PULLBOX MOUNTED ON TOP OF EXISTING PUMP 7-1-3 CONNECTION BOX
- EXISTING ELEVATION/ROUTING IS UNKNOWN, VERIFY EXACT LOCATION IN FIELD
- WIREMAN/PULLBOX FOR PRIMARY SERVICE TO PUMP 7-1-3 STARTER
- PUMP MOTOR LOW VOLTAGE TERMINATION BOX
- OVERHEAD TELEPHONE CABLES TO REES POLE
- CONDUIT/WIRE FOR LIGHTING CIRCUIT
- CONDUIT/WIRE ROUTES OVERHEAD TO TOP OF METER VAULT WITH VENT CABLE IS BROKEN AT METER VAULT
- CONDUIT/WIRE ROUTES NEAR FLOOR TO MOTOR

GENERAL NOTES

- ALL ITEMS SHOWN ON THIS DRAWING ARE EXISTING BASED LINE WORK DENOTES APPROXIMATE LOCATION OF UNDERGROUND FEELERS
- CONDUIT/WIRE ROUTES SHOWN ARE FOR INFORMATION TO ELECTRICAL/STRUCTURAL/CIVIL/MECHANICAL ENGINEERS AND SHOWN ON THE DRAWING, REFER TO APPROPRIATE DISCIPLINE FOR DETAILED INFORMATION
- EXACT LOCATIONS OF MECHANICAL/STRUCTURAL/CIVIL/MECHANICAL ENGINEERS AND SHOWN ON THE DRAWING, REFER TO APPROPRIATE DISCIPLINE FOR DETAILED INFORMATION
- CONDUIT/WIRE ROUTES SHOWN ARE FOR INFORMATION TO ELECTRICAL/STRUCTURAL/CIVIL/MECHANICAL ENGINEERS AND SHOWN ON THE DRAWING, REFER TO APPROPRIATE DISCIPLINE FOR DETAILED INFORMATION

REFERENCE DRAWINGS

- E-SP-001 - CONSTRUCTION SEQUENCE
- E-SP-002 - OVERALL SITE PLAN
- E-OL-001 - E-OL-003 - ONE LINE DIAGRAMS



TRANS COUNTY WATER CONTROL & IMPROVEMENT DISTRICT NO. 10 PUMP STATION NO. 1		SHEET 41
ENLARGED PUMP STATION FLOOR PLAN - EXISTING		E-EP-001
DATE: FEBRUARY 2005 SCALE: 1/2" = 1'-0"		2002-210
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HARUTUNIAN ENGINEERING INCORPORATED CONSULTING AND ENGINEERING FIRM 305 EAST HIGHLAND DRIVE AUSTIN, TEXAS 78701		
DATE: 2/2/05		

