

GENERAL NOTES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS SHOWN ON PLANS. THE CONTRACTOR SHALL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS.
- EXISTING UTILITIES AND THEIR LOCATIONS AS SHOWN ON THE PLANS REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. LOCATION INFORMATION HAS BEEN OBTAINED FROM THE VARIOUS UTILITY COMPANIES AND IS EITHER FROM COMPANY RECORD DRAWINGS OR COMPANY PROVIDED FIELD LOCATIONS. THE PLAN LOCATIONS SHOWN ARE NOT GUARANTEED. ADDITIONAL EXISTING UTILITIES MAY BE ENCOUNTERED.
- CONTRACTOR SHALL PROVIDE A MINIMUM ADVANCE NOTICE OF FORTY-EIGHT (48) HOURS TO UTILITY COMPANIES PRIOR TO STARTING ANY EXCAVATION AS FOLLOWS:

KANSAS ONE-CALL 1-800-344-7233 OR 687-2470 (LOCAL WICHITA)

THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF AN EMERGENCY:

SOUTHWESTERN BELL TELEPHONE COMPANY 1-800-734-7590
COX CABLEVISION 1-316-262-0861
KQ&E (GAS & ELECTRIC) 1-316-383-8600
CITY OF WICHITA WATER & SEWER MAINTENANCE 1-316-262-6000
SEDGWICK COUNTY PUBLIC WORKS 1-316-383-7901
- UNDERGROUND UTILITY SERVICE LINES AND OVERHEAD UTILITY POLE LINES ARE TO BE ADJUSTED AS NECESSARY BY OTHERS PRIOR TO CONSTRUCTION UNLESS THE PLANS SPECIFICALLY CALL FOR THEIR ADJUSTMENT BY THE CONTRACTOR OR UNLESS THE PLANS SPECIFICALLY IDENTIFY A UTILITY TO BE ADJUSTED BY ITS OWNER DURING CONSTRUCTION. EXISTING UTILITIES AND THEIR LOCATIONS, AS SHOWN ON THE PLANS, REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. THE CONTRACTOR WILL BE REQUIRED TO WORK AROUND EXISTING UTILITIES WITHIN THE RIGHT-OF-WAY WHICH DO NOT CONFLICT WITH PROPOSED CONSTRUCTION.
- RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES AND EXCESS EXCAVATION WHICH IS TO BE WASTED SHALL BE DISPOSED OF ON SITES TO BE PROVIDED BY THE CONTRACTOR. THESE SITES SHALL BE APPROVED BY THE ENGINEER AS TO SUITABILITY, APPEARANCE AND SITE LOCATION. LOCATIONS THAT, IN THE OPINION OF THE ENGINEER, WILL LEAVE AN UNSIGHTLY APPEARANCE WILL NOT BE APPROVED. ALL DISPOSAL SITES MUST BE APPROVED BY THE KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT. MATERIAL EITHER STOCKPILED OR DISPOSED OF IN A FLOOD PLAIN WILL REQUIRE A KANSAS STATE BOARD OF AGRICULTURE PERMIT. ANY MATERIAL DUMPED IN WATERS OF THE UNITED STATES OR WETLANDS IS SUBJECT TO U. S. CORPS OF ENGINEERS PERMITTING REGULATIONS. ANY MATERIAL BURIED OR STOCKPILED BEYOND APPROVED CONSTRUCTION LIMITS WILL REQUIRE ADDITIONAL ARCHAEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED BORROW LOCATION. COST OF EXCAVATION HAULING, AND DUMPING OF EXCESS EXCAVATION SHALL BE SUBSIDIARY TO THE PROJECT.
- THE CONTRACTOR SHALL GIVE ALL PROPERTY OWNERS AND/OR TENANTS OF DEVELOPED PROPERTY ABUTTING THE CONSTRUCTION OF THIS PROJECT A MINIMUM OF (48) HOURS ADVANCE NOTICE PRIOR TO START OF CONSTRUCTION.
- ALL CONSTRUCTION AND MATERIALS SHALL COMPLY WITH CITY OF WICHITA STANDARD SPECIFICATIONS.
- INTER-URBAN TRAFFIC GENERATED OUTSIDE THE PROJECT AREA AND LOCAL TRAFFIC GENERATED WITHIN THE PROJECT AREA ARE TO BE CARRIED THROUGH CONSTRUCTION ON EXISTING ROADWAYS AT ALL TIMES. ACCESS TO ALL DWELLINGS IN THE PROJECT AREA SHALL BE PROVIDED AT ALL TIMES. THE CONTRACTOR SHALL ERECT WARNING SIGNS, FLASHING LIGHTS, AND BARRICADES IN COMPLIANCE WITH THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL LIMIT THE EXTENT OF TRENCH TO REMAIN OPEN OVERNIGHT AND WEEKENDS TO LESS THAN 50 FEET.
- THE CONTRACTOR SHALL RESTORE ALL DITCHES, CHANNELS, BANK STABILIZATION, SWALES, ROAD SHOULDERS, PAVEMENT ENTRANCES, AND BANKS TO THEIR ORIGINAL SLOPES AND GRADES. WHERE EXISTING ENTRANCE PIPE, DRAINAGE PIPE, SPRINKLER SYSTEMS, SIDEWALKS, DRIVES, SIGNS, FENCES, ETC., CONFLICT WITH THE PROPOSED WORK HEREIN THEY SHALL BE REMOVED AND REPLACED OR RESET IN LIKE KIND. ALL OF THE ABOVE INCLUDING TREES, SHRUBS, GRASS, SOIL AND OTHER LANDSCAPING, WHERE NOTED, SHALL BE SAVED AND PROTECTED FROM DAMAGE.
- TREES AND SHRUBS IN PUBLIC RIGHTS-OF-WAY WHICH ARE IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE REMOVED BY THE CONTRACTOR WITH THE ENGINEER'S APPROVAL. THE CONTRACTOR SHALL RESTORE AND REPLACE LANDSCAPE FEATURES AND PLANTINGS AS NOTED IN THE DRAWINGS OR AS DIRECTED BY THE ENGINEER. TREES AND SHRUBS WHICH ARE NOT IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE SAVED AND PROTECTED FROM DAMAGE.
- POSITIVE DRAINAGE SHALL BE PROVIDED FOR ALL AREAS ON OR NEAR SPOIL AREAS. NATURAL DRAINAGE WAYS SHALL BE MAINTAINED.
- WHERE REMOVAL OF EXISTING FENCES NEXT TO THE CONSTRUCTION IS DEEMED NECESSARY BY THE CONTRACTOR, THE CONTRACTOR SHALL COORDINATE REMOVAL WITH ADJACENT PROPERTY OWNERS. ALL REMOVAL AND RESETTING OF FENCES SHALL BE CONSIDERED SUBSIDIARY TO THE PRICE BID.
- ALL ELEVATIONS SHOWN ARE CITY OF WICHITA DATUM. CITY DATUM = NGVD - 1187.4.
- ALL EXISTING GRASSED AREAS WHICH ARE DISTURBED OR DAMAGED DURING CONSTRUCTION OPERATIONS SHALL BE RESTORED TO ORIGINAL CONDITIONS, AND RE-SEEDED OR RE-SOODED IN LIKE KIND, UNLESS OTHERWISE NOTED ON THE PLANS. COSTS SHALL BE CONSIDERED SUBSIDIARY TO THE PRICE BID. APPLICATION RATE FOR THE VARIOUS SEED MIXTURES SHALL BE AS APPROVED BY THE ENGINEER. SEEDING SHALL CONFORM TO APPLICABLE REQUIREMENTS OF STANDARD SPECIFICATIONS.
- SLOPES STEEPER THAN 10 TO 1 SHALL BE MULCHED AS REQUIRED BY STANDARD SPECIFICATIONS. COST OF MULCHING SHALL BE INCLUDED IN PRICE BID.
- EROSION CONTROL AREA DISTURBED BY CONSTRUCTION SHALL BE COVERED WITH AN EROSION CONTROL MAT/BLANKET WITHIN TWENTY (24) HOURS OF BACKFILLING, LEVELING AND TEMPORARY SEEDING. PLACEMENT OF EROSION CONTROL MATS/BLANKETS (ECM'S) SHALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS REGARDING OVERLAPS, EDGE TRENCHING AND STAPLING OR THE CITY OF WICHITA'S STANDARD DETAIL DRAWINGS WHICHEVER IS MORE RESTRICTIVE. (ECM'S) MAY BE AMERICAN EXCELSIOR CURLEX I, NORTH AMERICAN GREEN S75, SYNTHETIC INDUSTRIES LANDLOK BON TERRA S1 OR AN APPROVED EQUAL.
- MANHOLES WITH A DEPTH OF 20 FEET OR MORE SHALL BE A MINIMUM OF 5 FEET IN DIAMETER REGARDLESS OF PIPE SIZE.
- MANHOLES SHALL BE LINED WITH T-LOCK LINER, OR APPROVED EQUAL.

PLANS FOR

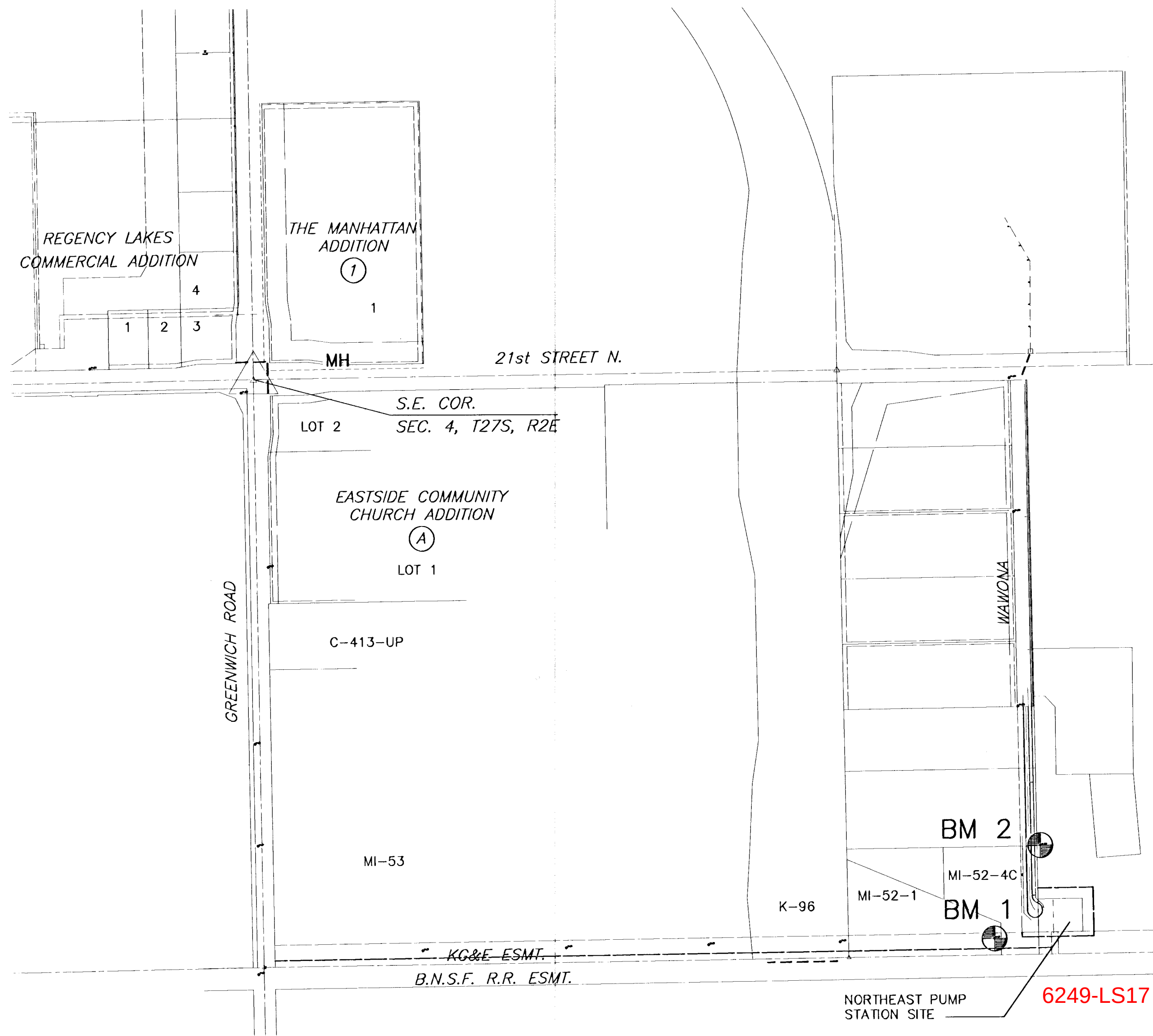
NORTHEAST PUMP STATION
PROJECT NO. 468-83069

CITY OF WICHITA, KANSAS

MICHAEL E. LINDEBAK, CITY ENGINEER

INDEX CODE 624503

NOT AN AS-BUILT / Best info available - LML 1-4-11



BENCHMARKS

- BM #1 RR SPIKE IN N. LEG OF 2ND "H" POLE STRUCTURE E. K-96, 1ST "H" POLE W. OF WAWONA, 660' E. AND 75' N. OF CENTER COR. OF SEC. 10-T27S-R2E ELEV=167.22
- BM #2 RR SPIKE IN E. SIDE 18" ELM TREE 2163' S. OF N. LINE NE 1/4 SEC. 10-T27S-R2E (21ST ST. N.) & 62' E. OF THE W. LINE OF WAWONA EXTENDED SOUTH. ELEV=176.30

INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	MANHOLE DETAILS
3	MISCELLANEOUS DETAILS
4	SITE PLAN
5	PUMP STATION PLAN, ELEVATION, AND DETAILS
6	PUMP STATION ELECTRICAL PLAN AND DETAILS

LEGEND

3IN - TREE AND DIAMETER	SSMH - SANITARY SEWER MANHOLE
SN, SN - SIGN AND POSTS	RETAINING WALL
IP-1/2" MID-KANSAS BAR - IRON PIPE AND DESCRIPTION	LP - LIGHT POLE
214 x 49 - SPOT ELEVATION AND LOCATION	FH - FIRE HYDRANT
PD - POWER POLE AND DEADMAN	WV - WATER VALVE
MB - ELECTRIC BOX	WM - WATER METER
ICV - IRRIGATION CONTROL VALVE	GRATE INLET
EDGE OF TREES	TR - TELEPHONE RISER
E - UNDERGROUND ELECTRIC LINE	SS - STORM SEWER PIPE
OHE - OVERHEAD ELECTRIC LINE	W - WATER LINE
FENCE	SS - SANITARY SEWER LINE
BM - BENCHMARK	G - GAS LINE
SSMH - STORM WATER MANHOLE	T - TELEPHONE LINE

SCALE: 1" = 400'



CITY OF WICHITA
NORTHEAST PUMP STATION
PROJECT NAME

TITLE SHEET
SHEET TITLE

D. CANTRELL
DESIGN BY:

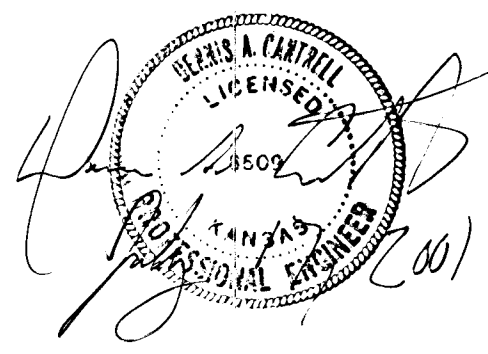
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DRAWN BY:

D. CANTRELL
CHECKED BY:

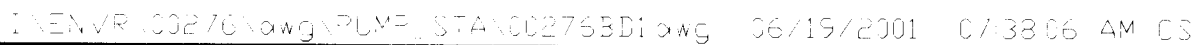
JUNE, 2001
DATE

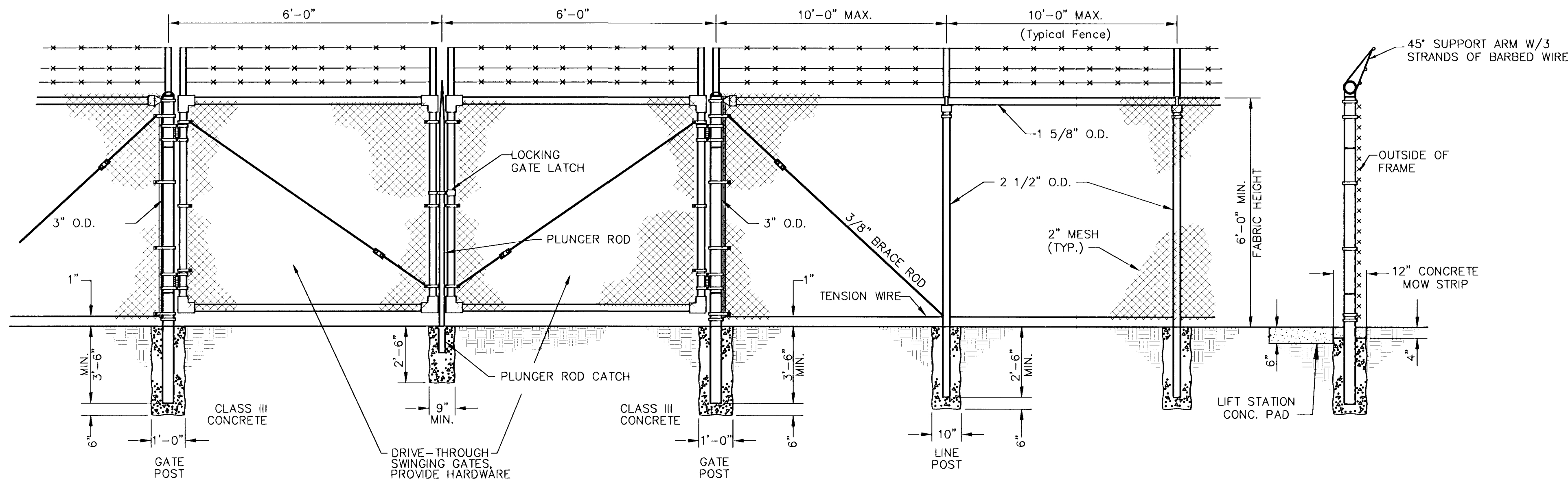
00276_BT
DRAWING NAME

1 / 6
SHEET / OF



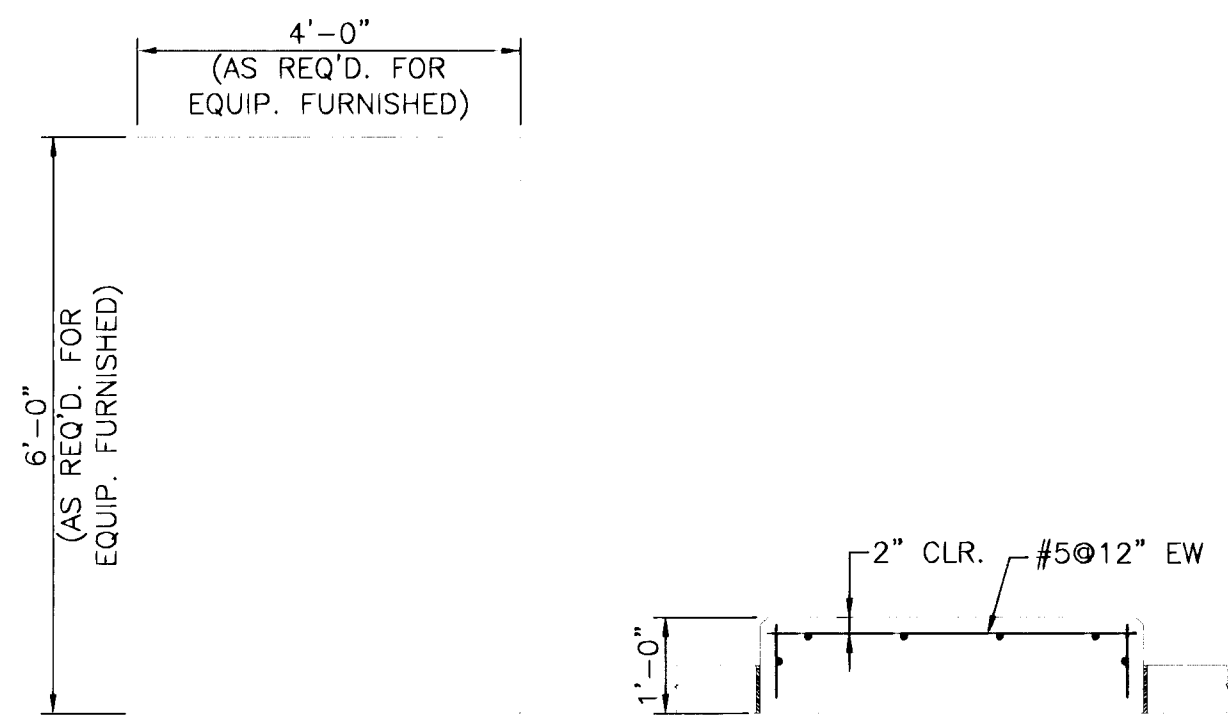
ADOPTED AS STANDARD DESIGN BY CITY OF WICHITA





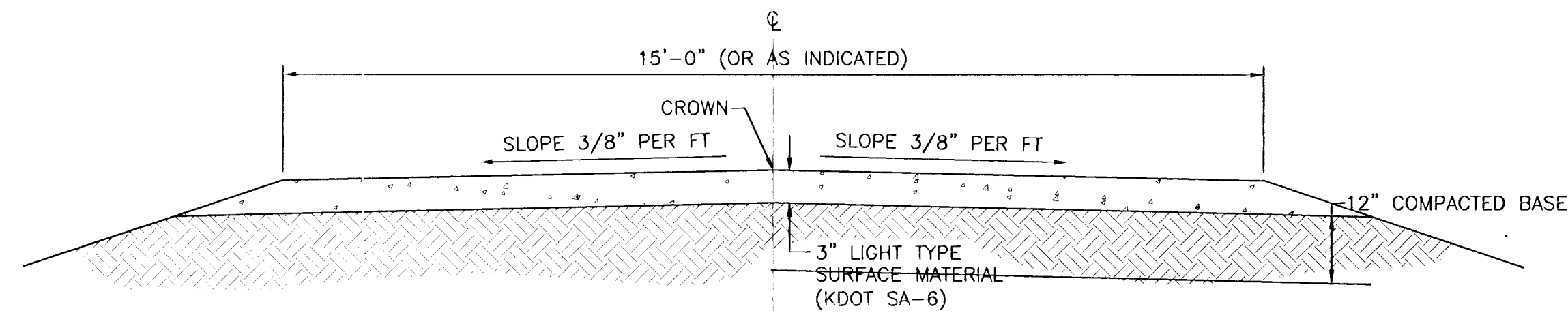
MANUAL SERVICE GATE AND FENCE DETAIL

SCALE: NONE



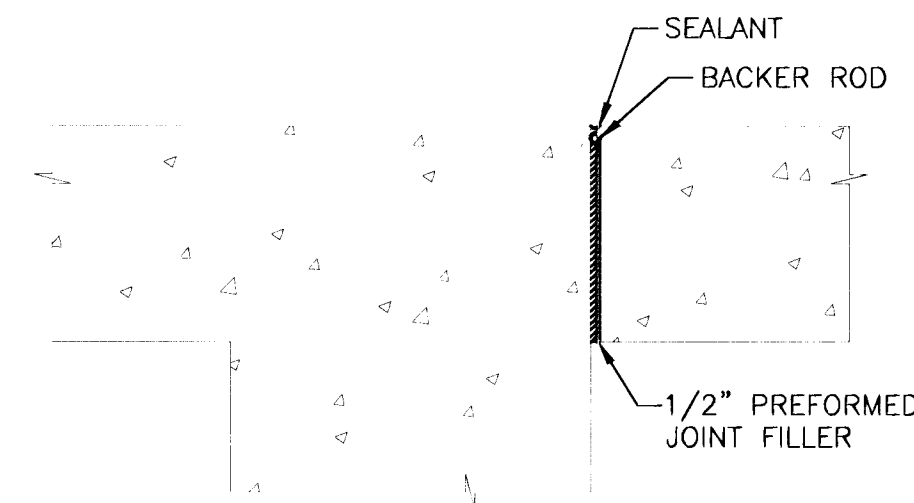
EMER. GEN. SUPPORT PAD

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



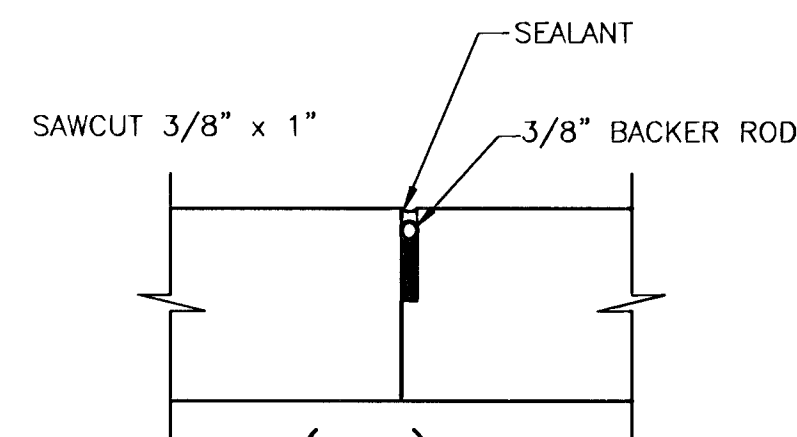
ACCESS ROAD DETAIL

SCALE: NONE



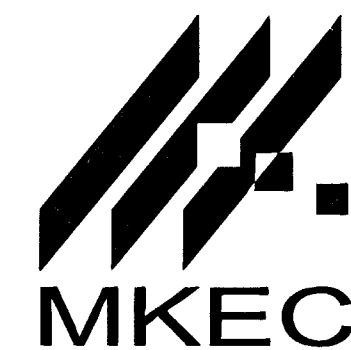
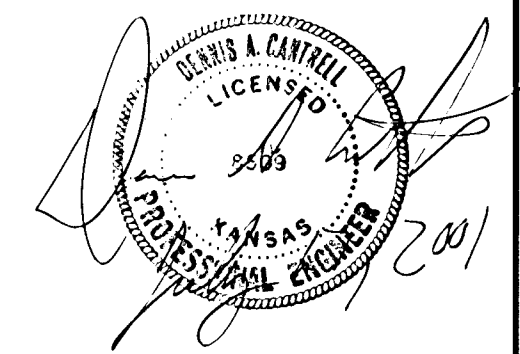
(IJ)
ISOLATION JOINT DETAIL

SCALE: NONE



(CJ)
CONTROL JOINT DETAIL

SCALE: NONE



411 N. WEBB ROAD
WICHITA, KS. 67206
316-684-9600

CITY OF WICHITA
NORTHEAST PUMP STATION
PROJECT NAME
MISCELLANEOUS DETAILS
ELEVATIONS, AND DETAILS
SHEET TITLE

D. CANTRELL
DESIGN BY:

RRT
DRAWN BY:

D. CANTRELL
CHECKED BY:

JULY, 2001
DATE

00276
DRAWING NAME

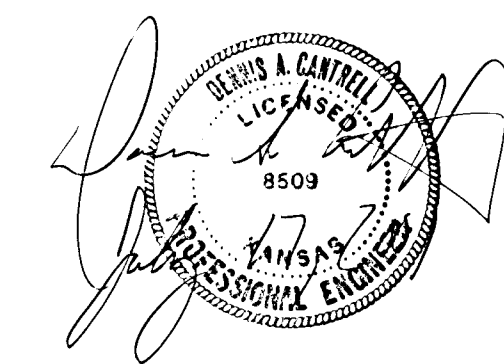
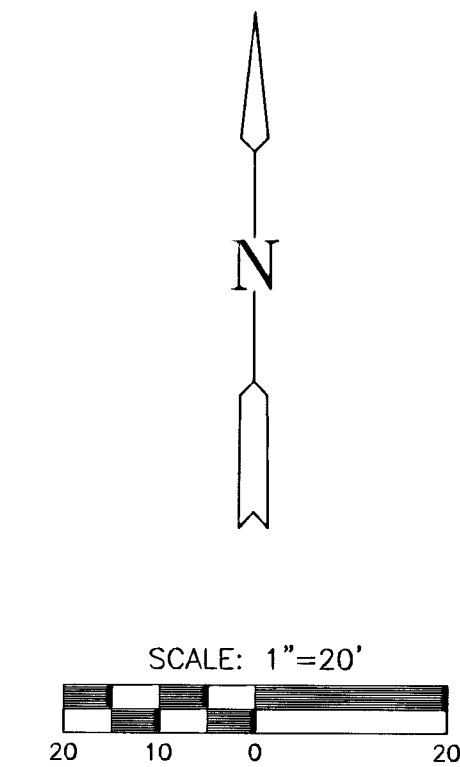
3 / 6
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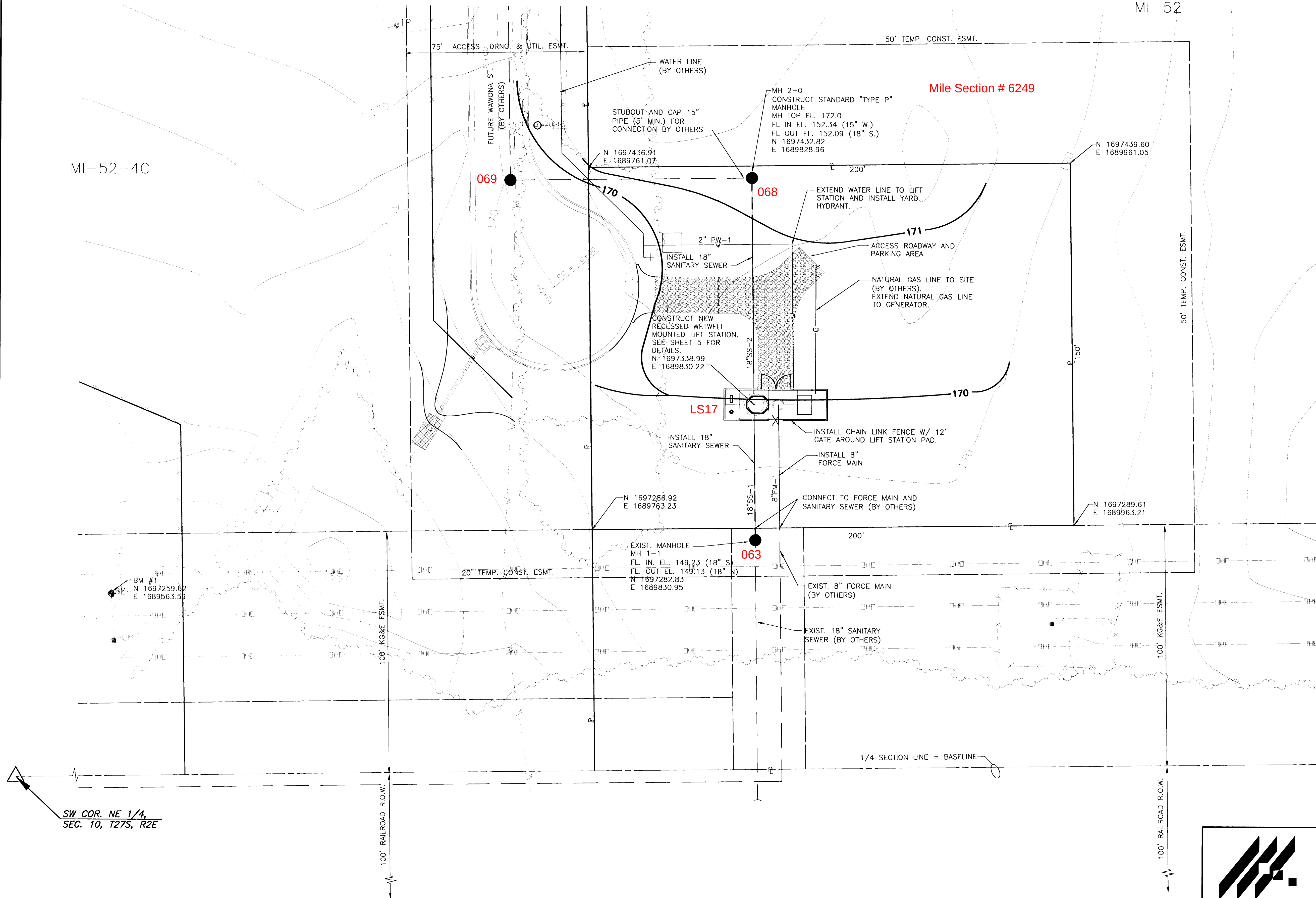
- NOTES:
1. COST OF ALL SITE CLEAN UP IS SUBSIDIARY TO PROJECT.
 2. CONTRACTOR SHALL CONNECT TO EXISTING UTILITIES AND EXTEND TO LIFT STATION AS INDICATED. IF UTILITIES ARE NOT IN PLACE AT COMPLETION OF CONSTRUCTION, CONTRACTOR SHALL CAP UTILITY AT PROPERTY LINE FOR CONNECTION BY OTHERS.
 3. CONTRACTOR SHALL COORDINATE EXTENSION OF ELECTRIC POWER, INCLUDING ALL NECESSARY APPURTENANCES, TO SITE WITH KGE AND CONNECT LIFT STATION TO PROVIDE A COMPLETE FACILITY IN OPERATION.
 4. CONTRACTOR TO PROVIDE EROSION CONTROL IN ACCORDANCE WITH CITY, STATE, AND FEDERAL GUIDELINES.
 5. CONTRACTOR TO PROVIDE POSITIVE DRAINAGE FOR SITE.
 6. CONTRACTOR SHALL SEED ENTIRE SITE WITH BUFFALO GRASS. (MIN. 2# PER 1000 SQ. FT.) FERTILIZE AS PER SUPPLIER'S INSTRUCTION.



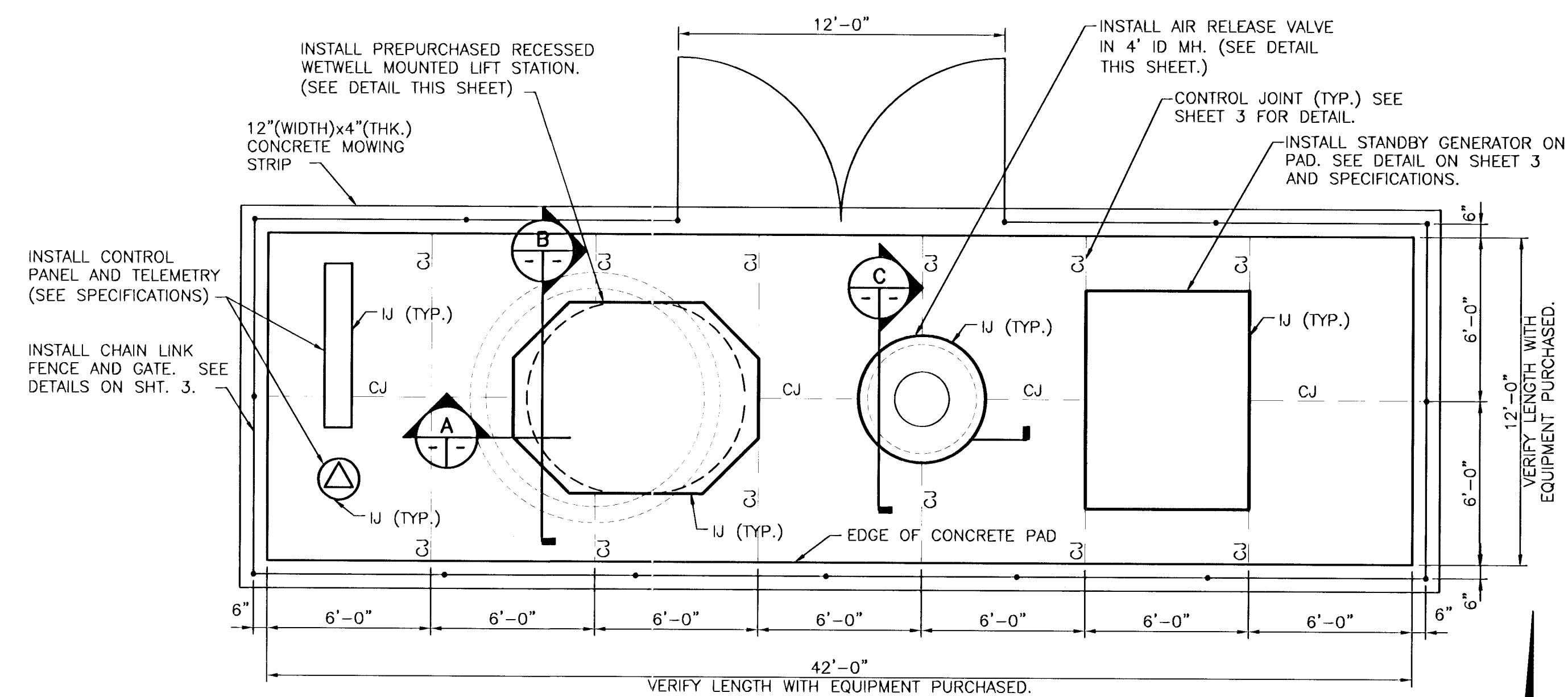
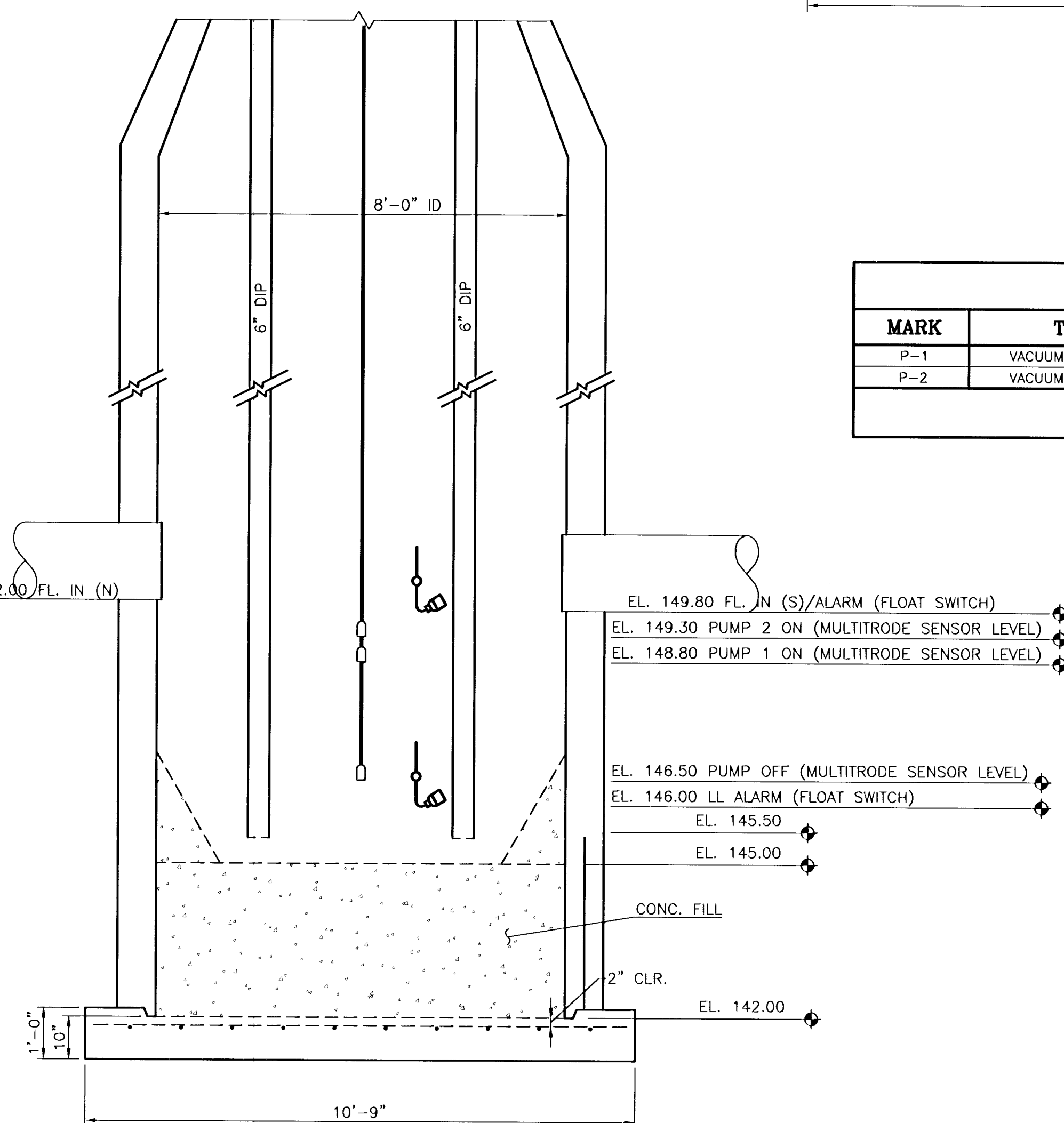
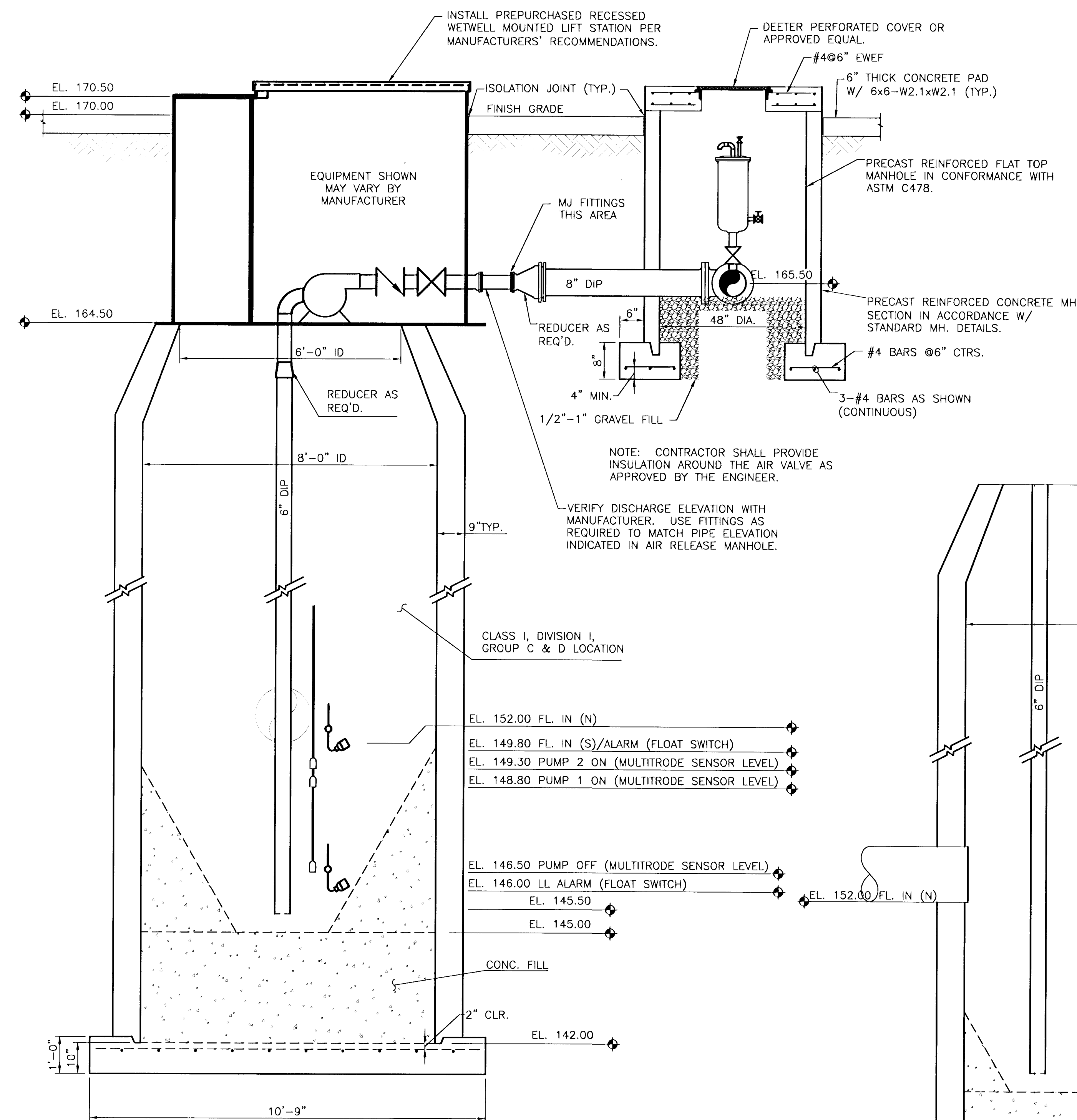
CITY OF WICHITA
NORTHEAST PUMP STATION
PROJECT NAME

SITE PLAN
SHEET TITLE

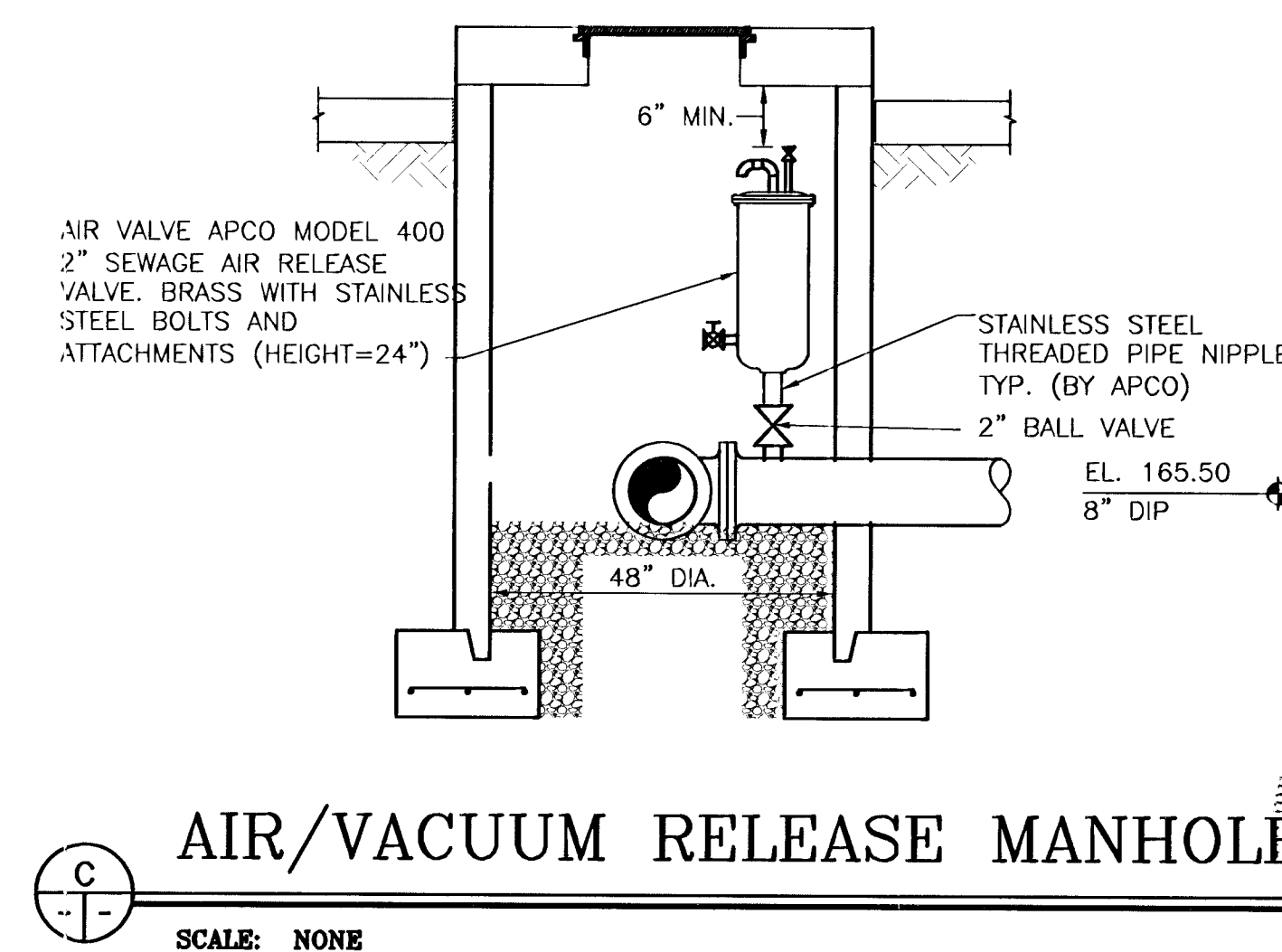
DESIGN BY:	DRAWN BY:	CHECKED BY:
RRT	RRT	D. CANTRELL
JULY, 2001	00276	4 / 6
DATE	DRAWING NAME	SHEET / OF



SW COR. NE 1/4,
SEC. 10, T27S, R2E

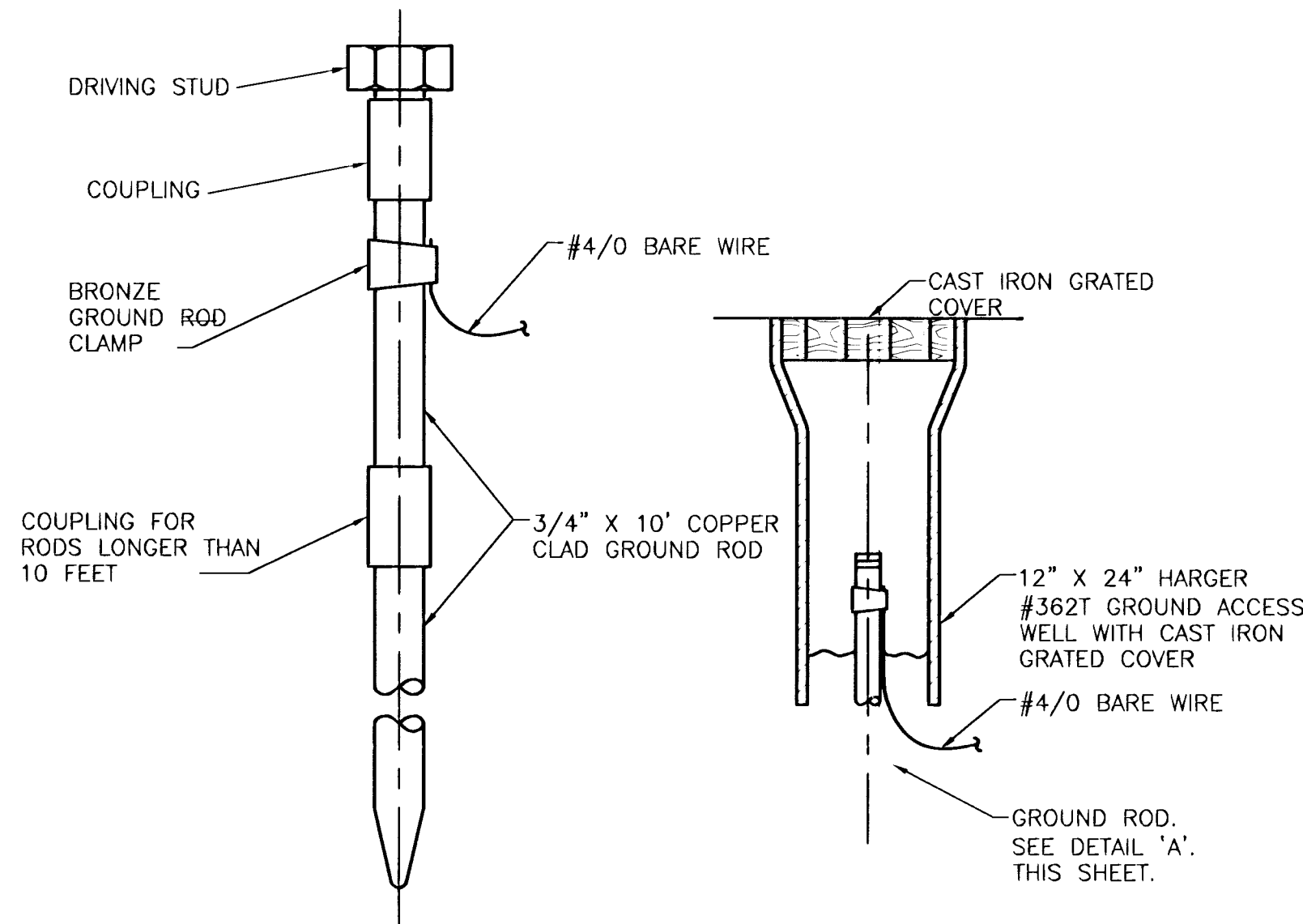


PACKAGED LIFT PUMP STATION							
MARK	TYPE	HP	FLOW	THD	RPM	ELECTRICAL	NOTES
P-1	VACUUM PRIMED	25	570 GPM	89'	1750	480/3/60	—
P-2	VACUUM PRIMED	25	570 GPM	89'	1750	480/3/60	—



GENERAL NOTES

1. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL INSTALLATION WITH UTILITY COMPANY.
2. ELECTRICAL CONTRACTOR SHALL CONTACT AND HAVE UTILITY COMPANY PROVIDE A 3Ø, 480V, GROUNDING WYE SERVICE TO PUMP STATION.
3. ALL CONDUITS SHALL BE GALVANIZED RIGID CONDUITS.
4. SEAL ALL CONDUITS LEAVING CLASSIFIED LOCATIONS PER N.E.C.
5. CONTRACTOR IS TO PROVIDE A FULLY FUNCTIONING VENDER SUPPLIED SYSTEM. CONTRACTOR SHALL SUPPLY ALL CONDUITS, WIRES, AND OTHER MISC. COMPONENTS TO COMPLETE THE VENDER SUPPLIED EQUIPMENT.
6. THE CONTRACTOR MUST VISIT THE SITE TO FAMILIARIZE HIMSELF WITH THE EXISTING SITE CONDITIONS WHICH WILL BE AFFECTED DURING CONSTRUCTION PRIOR TO SUBMITTING HIS BID PROPOSAL.
7. NOT ALL CONDUITS ARE SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR ALL CONDUIT AND WIRING NECESSARY FOR A COMPLETE INSTALLED SYSTEM. COORDINATE WIRING REQUIREMENTS FOR VENDOR SUPPLIED EQUIPMENT WITH VENDOR.
8. CONTRACTOR SHALL REVIEW PLANS, P&ID'S, SCHEMATICS, AND PROCESS VENDER DRAWINGS TO FULLY IDENTIFY ALL REQUIRED CONDUIT AND WIRE REQUIREMENTS.
9. ALL WIRING OF ALL SYSTEMS SHALL BE COPPER IN RGS RIGID STEEL CONDUIT & MALLEABLE IRON BOXES, UNLESS SPECIFICALLY NOTED OTHERWISE. ALL EXPOSED CONDUITS SHALL BE INSTALLED PARALLEL AND PERPENDICULAR TO STRUCTURE.
10. ALL PANELS SHALL BE PANELBOARD CONSTRUCTION WITH BOLT-ON CIRCUIT BREAKERS, COPPER BUS AND COPPER ISOLATED GROUND BUS (IF IGB IS INCLUDED) TANDEM STYLE BREAKERS ARE NOT ALLOWED. IF ADDITIONAL POLE SPACE IS REQUIRED, INFORM THE ENGINEER OF CONDITIONS PRIOR TO INSTALLATION.
11. VENDOR SUPPLIED EQUIPMENT: CONTRACTOR TO INSTALL AND CONNECT ALL VENDOR SUPPLIED EQUIPMENT INCLUDING ALL COMPONENTS AND INTERCONNECTION OF COMPONENTS AND ALL SUPPORTS REQUIRED.
12. CONDUITS SHOWN ON PLANS ARE DIAGRAMETRIC – FIELD TO ROUTE.
13. ALL ENTRIES TO BOXES SHALL USE AN INSULATED BUSHING-METERS HUB
14. ALL MOUNTING HARDWARE FOR BOXES, ENCLOSURES, UNISTRUT AND OTHER STRUCTURAL SUPPORT SHALL USE STAINLESS BOLTS, NUTS AND WASHERS.
15. ELECTRICAL CONTRACTOR SHALL CONFIRM SIZE OF CONDUITS WITH VENDOR SUPPLIED EQUIPMENT REQUIREMENTS.
16. CONDUIT AND CABLE SEALS MUST BE PROVIDED TO SEAL BOTH RACEWAY AND INTERNAL CONDUCTORS AND CABLE JACKET.



DETAIL 'A' DETAIL 'B'

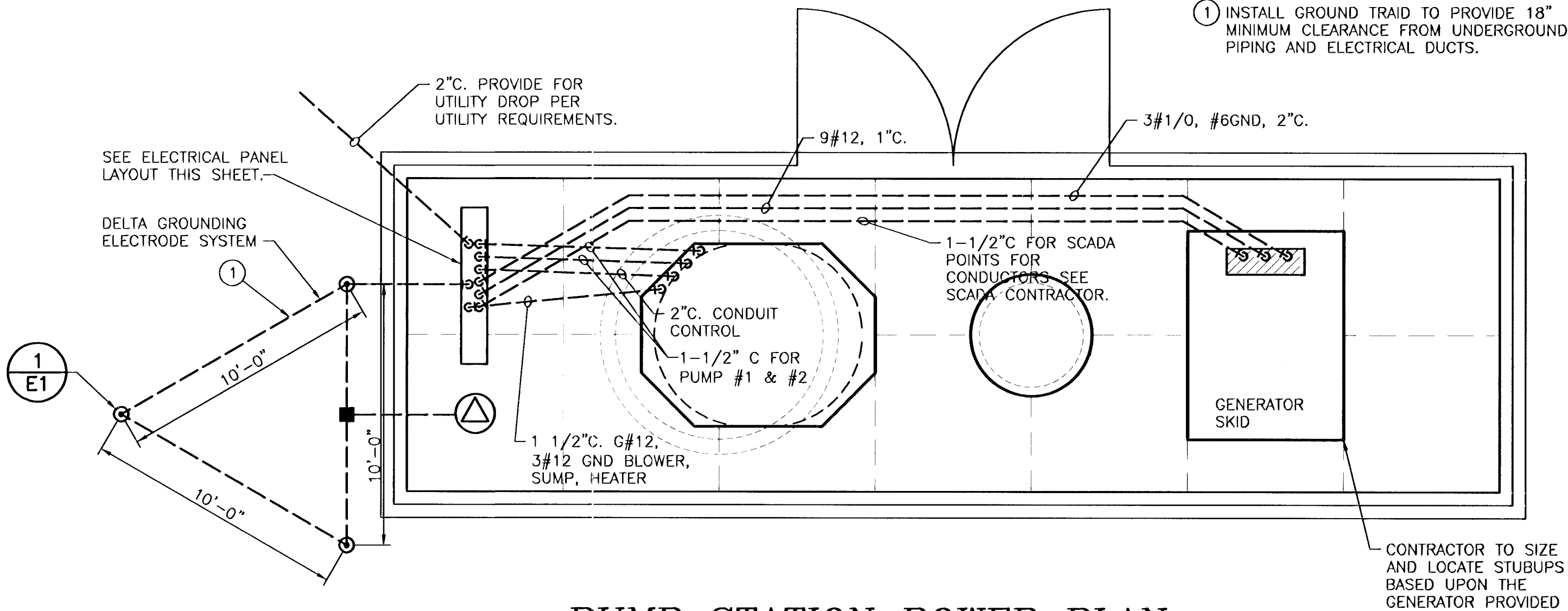
ALL PRODUCTS BY HARGER OR
ENGINEER APPROVED EQUAL.

GROUND ROD DETAIL

SCALE: NONE

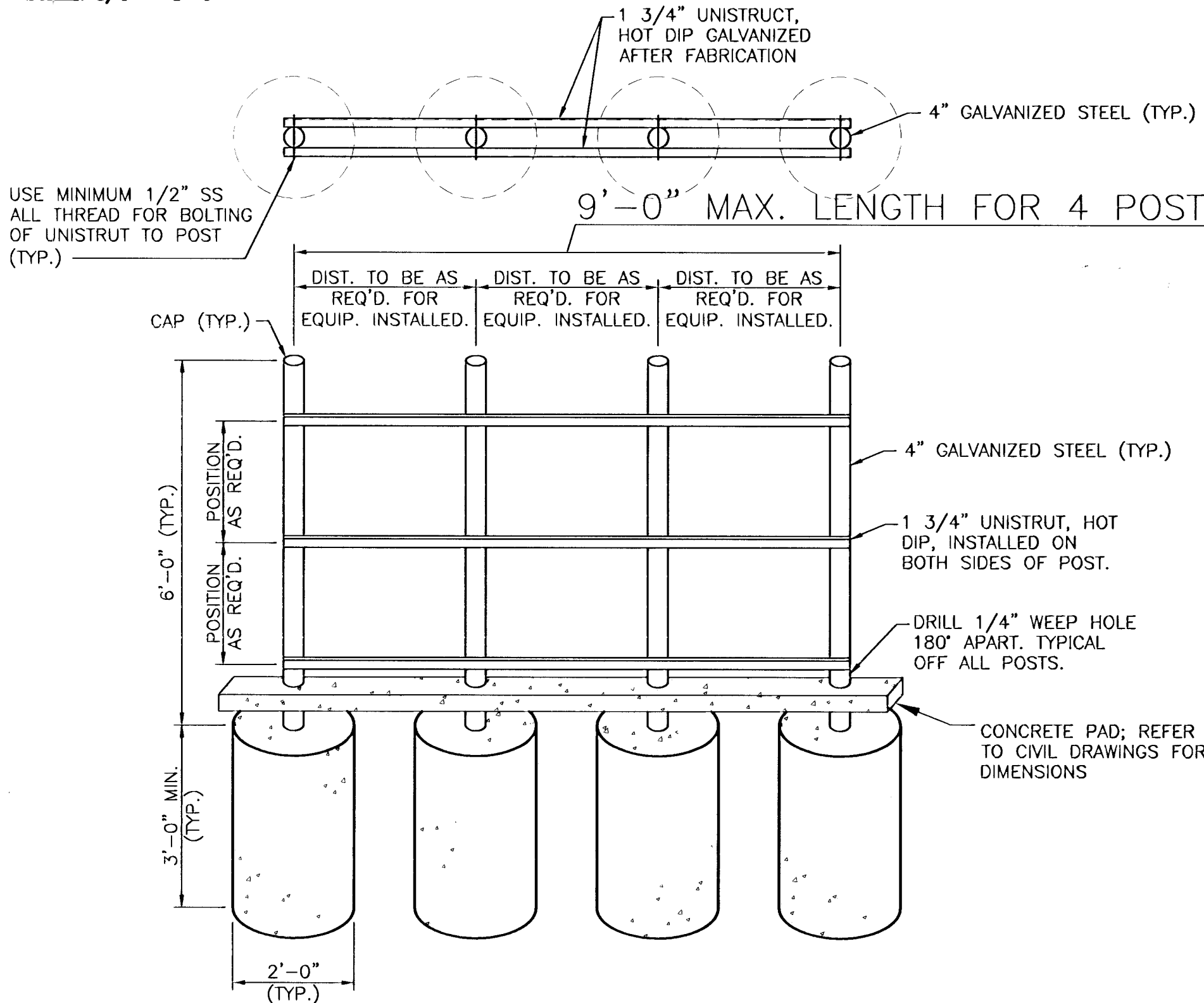
KEYED NOTES:

1. INSTALL GROUND TRID TO PROVIDE 18" MINIMUM CLEARANCE FROM UNDERGROUND PIPING AND ELECTRICAL DUCTS.



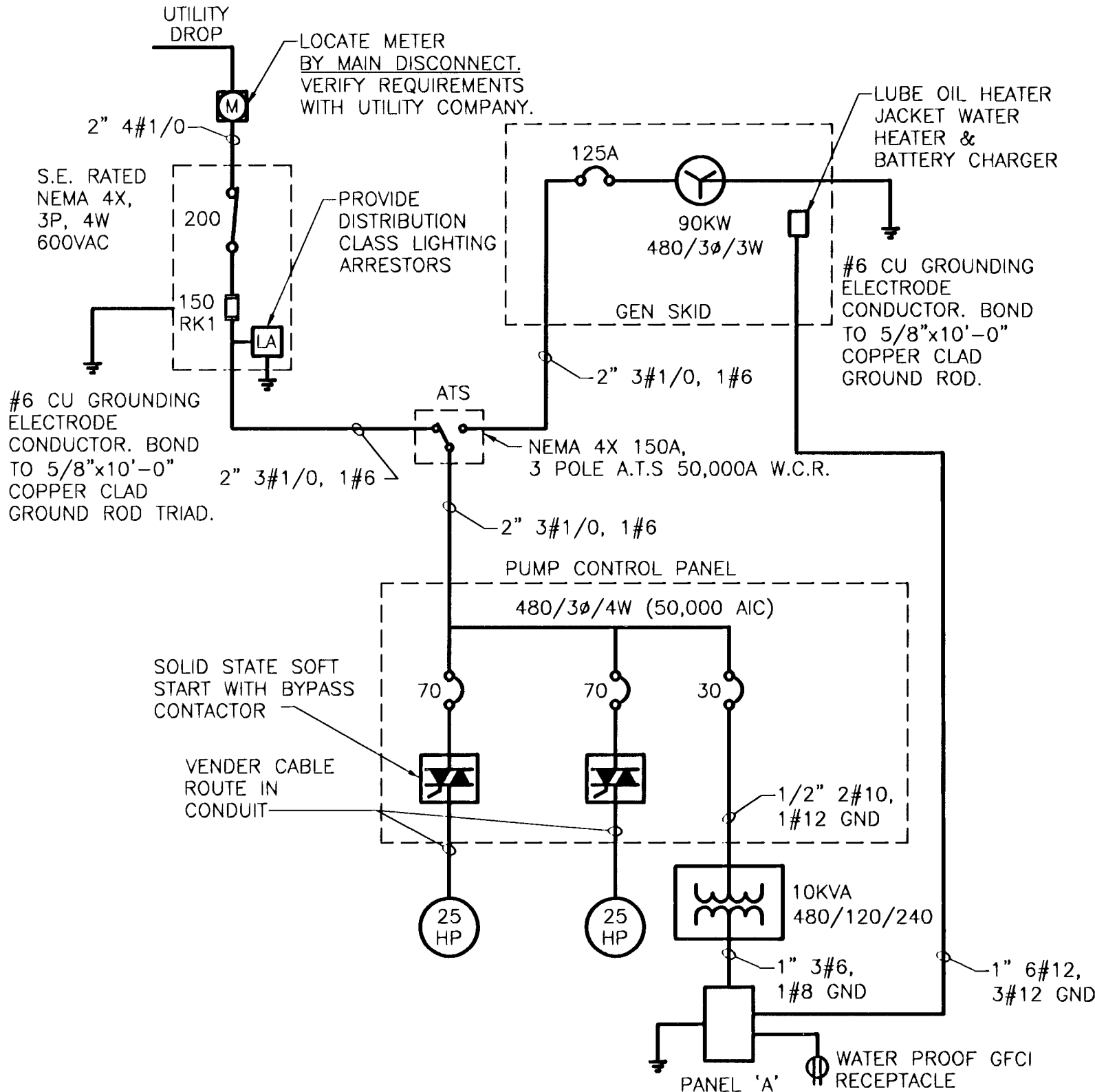
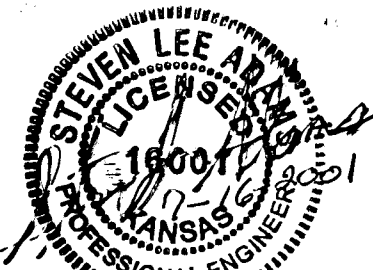
PUMP STATION POWER PLAN

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



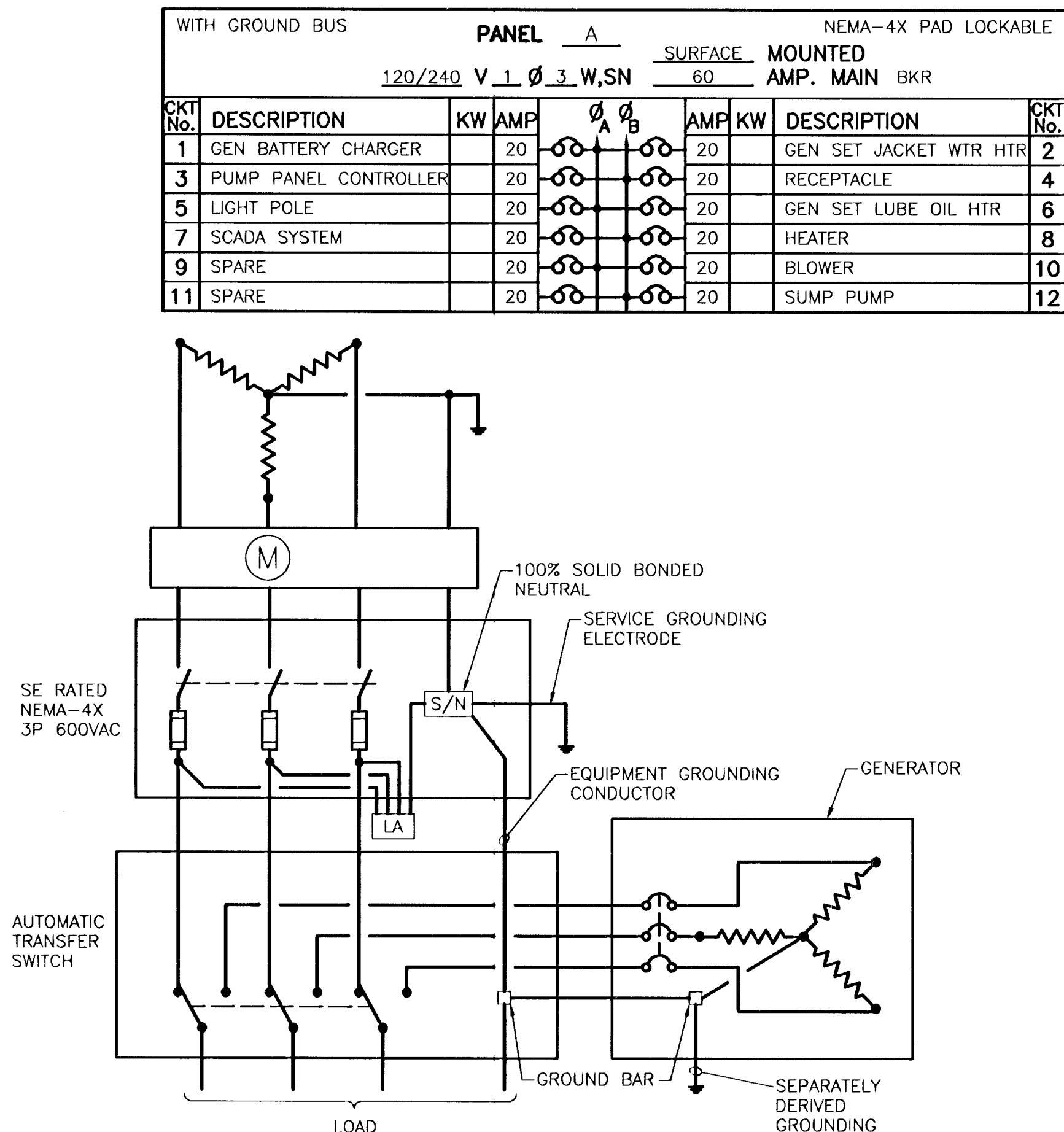
ELECTRICAL PANEL SUPPORT

SCALE: NONE



ONE-LINE DIAGRAM

SCALE: NONE



SERVICE WIRING DIAGRAM

SCALE: NONE

ELECTRICAL PANEL LAYOUT

SCALE: NONE



CITY OF WICHITA
NORTHEAST PUMP STATION

PUMP STATION ELECTRICAL PLAN,
ELEVATIONS, AND DETAILS

SHEET TITLE

SLA

DESIGN BY:

JULY, 2001

DATE

JAF

DRAWN BY:

00276

DRAWING NAME

SLA

CHECKED BY:

6 / 6

SHEET / OF