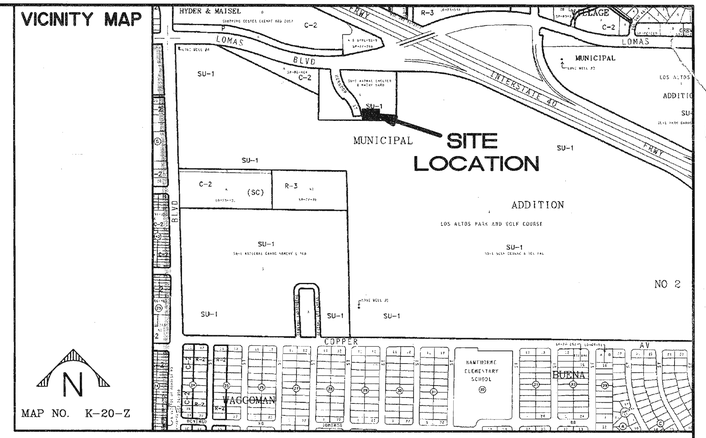
CITY OF ALBUQUERQUE
ENVIROMENTAL HEALTH DEPARTMENT
PLANS FOR CONSTRUCTION

EASTSIDE
FUELING STATION

RECORD DRAWINGS

VICINITY MAP



MAP NO. K-20-Z

INDEX TO DRAWINGS

SHEET NO.	TITLE	SHEET NO.	TITLE
1	TITLE SHEET & VICINITY MAP	S2.0	CANOPY FOUNDATION & FRAMING PLANS
2	GENERAL NOTES, LEGEND & SURVEY CONTROL	M1.01	MECHANICAL SITE PLAN
C1.0	PROPOSED REFUELING STATION	M1.02	MECHANICAL DETAILS
C2.0	MISC. SECTION AND DETAILS	E1.01	ELECTRICAL SITE PLAN
A1.0	CANOPY FLOOR AND ROOF PLANS	E2.01	ELECTRICAL DETAILS
S1.0	STRUCTURAL NOTES AND ABBREVATIONS	E3.01	SYMBOL LEGEND, SCHEDULE AND PANEL

APPROVAL OF RECORD DRAWINGS
CHIEF CONSTRUCTION ENGINEER
Peter Chang
DATE 11-14-01

RECORD DRAWINGS

I CERTIFY THAT THE INFORMATION CONTAINED ON THIS DRAWING HAS BEEN REVISED TO REFLECT THE AS-BUILT INFORMATION PROVIDED TO SEC BY THE CONTRACTOR, TLC.

10/24/01
PATRICK J. CONLEY, PE

NM PE 10141

PATRICK J. CONLEY NEW MEXICO 10141 REGISTERED PROFESSIONAL ENGINEER

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SEC JOB # 199533
Smith Engineering Company
A Full Service Engineering Company
8500 Upham, Boulevard, N.E. Suite 8000 Albuquerque, New Mexico 87110

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE

ENGINEERS STAMP & SIGNATURE

PATRICK J. CONLEY NEW MEXICO 10141 REGISTERED PROFESSIONAL ENGINEER
2/3/00

APPROVED	ENGINEER	DATE
DRC Chairman		2-17-00
Transportation		2-15-00
Water/Wastewater	N/A	2-15-00
Hydrology	Bradley D. Bingham	2-15-00
C I P		
Constr. Mngmt.		
Const Cont		2-15-00

APPROVED FOR CONSTRUCTION

2-17-00
CITY ENGINEER DATE

PROJECT NUMBER **6241.91**

SHEET 1 OF 12

GENERAL NOTES:

1 FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR WILL SUBMIT A DETAILED CONSTRUCTION SCHEDULE TO THE CITY CONSTRUCTION COORDINATION DIVISION. TWO (2) DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR WILL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION.

2 THE CONTRACTOR WILL NOTIFY THE CITY OF ALBUQUERQUE CONSTRUCTION MANAGER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK, IN ORDER THAT THE CITY OF ALBUQUERQUE CONSTRUCTION MANAGER MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. THE CONTRACTOR WILL NOTIFY THE CITY OF ALBUQUERQUE CONSTRUCTION MANAGER IF A MONUMENT IS DISTURBED. REPLACEMENT WILL BE DONE ONLY BY THE CITY OF ALBUQUERQUE SURVEY SECTION. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATION OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR WILL, AT HIS OWN EXPENSE, HAVE THE CITY SURVEY SECTION ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4 OF SPECIFICATIONS.

3 THE SPECIFICATIONS USED FOR THIS PROJECT ARE THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION INCLUDING ALL UPDATES THROUGH UPDATE NO. 6.

4 ALL NEW MANHOLES SHALL BE TYPE "E" (COA DWG. 2102) UNLESS OTHERWISE NOTED ON THE PLANS.

5 THE CONTRACTOR WILL BE RESPONSIBLE FOR DISPOSING OF ALL DEBRIS, INCLUDING, BUT NOT LIMITED TO HAZARDOUS WASTE AT DISPOSAL SITES APPROVED BY GOVERNMENTAL AGENCIES REGULATING THE DISPOSAL OF SUCH MATERIALS.

6 ALL EXISTING WATER VALVE BOXES AND MANHOLES IN THE CONSTRUCTION LIMITS ARE TO BE ADJUSTED TO FINISH GRADE AND WILL BE MEASURED AND PAID PER EACH.

7 SUBGRADE PREPARATION UNDER SIDEWALKS AND DRIVE PADS, AND SUBGRADE AND SUBBASE PREPARATION UNDER CURB AND GUTTER IS CONSIDERED INCIDENTAL TO THE CONSTRUCTION OF SUCH, AND NO DIRECT PAYMENT SHALL BE MADE FOR THOSE ITEMS OF WORK.

8 ALL EXCAVATION WILL BE GOVERNED BY FEDERAL, STATE AND LOCAL LAWS, RULES, AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.

9 ALL SIGNS AND CODING WILL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" CURRENT EDITION PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION.

10 THE CONTRACTOR IS TO EXERCISE CARE TO AVOID DISTURBING ANY EXISTING UNDERGROUND UTILITIES. IT WILL BE HIS RESPONSIBILITY TO COORDINATE WITH THE UTILITY COMPANIES IN ORDER TO PREVENT ANY SERVICE DISRUPTION. SEE SECTION 18 "UTILITIES", CITY OF ALBUQUERQUE, STANDARD SPECIFICATIONS FOR CONTRACTOR REQUIREMENTS.

11 WHEN ABUTTING NEW PAVEMENT TO EXISTING PAVEMENT, SAW CUT EXISTING PAVEMENT TO A STRAIGHT LINE AND AT RIGHT ANGLES AND REMOVE ANY BROKEN OR CRACKED PAVEMENT. NO DIRECT PAYMENT WILL BE MADE FOR SAW CUTTING.

12 ALL GAS VALVES, GAS MANHOLES, ELECTRICAL MANHOLES, TELEPHONE MANHOLES, AND UTILITY POLES WILL BE ADJUSTED TO GRADE BY EACH UTILITY COMPANY. CONTRACTOR WILL COORDINATE THROUGH KEVIN BRODERICK, THE CITY OF ALBUQUERQUE UTILITY COORDINATOR.

13 WHEN REMOVAL OF EXISTING CURB AND GUTTER OR SIDEWALK IS REQUIRED, REMOVE BACK TO NEAREST SUITABLE JOINT UNLESS OTHERWISE DIRECTED BY THE CITY OF ALBUQUERQUE CONSTRUCTION OBSERVER OR CONSTRUCTION MANAGER.

14 THE CONTRACTOR WILL NOTIFY THE UTILITY COMPANIES BY CALLING NEW MEXICO ONE CALL SYSTEM 260-1990 TWO (2) WORKING DAYS PRIOR TO COMMENCING WORK IN NEW AREAS.

15 CONTRACTOR WILL PLACE BITUMINOUS MATERIAL WITH THE USE OF A LAYDOWN MACHINE WHERE PAVEMENT IS 7 FEET IN WIDTH OR WIDER.

16 CONTRACTOR WILL NOT PAVE OVER ANY SURFACE FEATURE, I.E., GAS VALVE, MANHOLE COVER, ETC. WITHOUT PRIOR APPROVAL FROM THE CITY OF ALBUQUERQUE CONSTRUCTION OBSERVER OR CONSTRUCTION MANAGER.

17 CONTRACTOR WILL CONFINE HIS WORK WITHIN THE CONSTRUCTION EASEMENT LIMITS AND/OR RIGHT-OF-WAY, OR PROVIDE COPIES OF AGREEMENTS WITH ADJACENT LANDOWNERS TO THE CITY OF ALBUQUERQUE.

18 THE CONTRACTOR AGREES TO TAKE NECESSARY SAFETY PRECAUTIONS AS REQUIRED BY FEDERAL, STATE AND LOCAL AUTHORITIES TO PROTECT PEDESTRIAN AND VEHICULAR TRAFFIC IN THE CONSTRUCTION AREA, WHICH INCLUDE BUT ARE NOT LIMITED TO: MAINTAINING ADEQUATE WARNING SIGNS, BARRICADES, LIGHTS, GUARD FENCES, WALKS AND BRIDGES.

19 THE CONTRACTOR SHALL CONSTRUCT CITY OF ALBUQUERQUE STANDARD WHEELCHAIR RAMPS THAT CONFORM TO CURRENT ADA REQUIREMENTS.

20 PRIOR TO CONSTRUCTION, THE CONTRACTOR WILL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL CONFLICTING UTILITIES. SHOULD A CONFLICT EXIST BETWEEN THE FIELD INFORMATION AND THE PLANS, THE CONTRACTOR WILL NOTIFY THE CITY OF ALBUQUERQUE CONSTRUCTION OBSERVER OR CONSTRUCTION MANAGER SO THE CONFLICT CAN BE RESOLVED WITH MINIMUM AMOUNT OF DELAY.

21 THE REPLACEMENT OF THE EXISTING UTILITIES AND THE INSTALLATION OF NEW UTILITY LINES WILL BE COMPLETED IN ADVANCE OF STARTING THE PAVEMENT WORK. TEMPORARY PAVEMENT WILL BE PLACED IN ALL TRENCHES REQUIRED FOR THE UTILITY REPLACEMENTS IN THOSE AREAS THAT MUST MAINTAIN TRAFFIC UNTIL THE FINAL PAVEMENT WORK STARTS IN EACH AREA. TEMPORARY STRIPING SHALL BE THE CONTRACTOR'S RESPONSIBILITY. MAINTENANCE OF THE TEMPORARY PAVING AND STRIPING WILL BE AT THE CONTRACTOR'S EXPENSE.

22 TACK COAT FOR SURFACE COURSE REQUIREMENTS WILL BE DETERMINED BY THE CITY OF ALBUQUERQUE CONSTRUCTION OBSERVER OR CONSTRUCTION MANAGER.

23 BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.

24 ALL NEW STREET PAVING, DRIVEWAYS, SIDEWALKS, AND CURB AND GUTTERS, ABUTTING EXISTING AREAS SHALL MATCH THE ELEVATION OF THOSE AREAS.

25 PERMANENT PAVEMENT STRIPING AND MARKINGS WILL BE PLACED BY THE CONTRACTOR. ROAD SHALL NOT BE OPENED TO TRAFFIC UNTIL IT IS STRIPED ACCORDING TO THE PLAN DRAWINGS. ALL STRIPING, PAVEMENT MARKINGS INCLUDING CROSSWALKS, ARROWS AND LINE MARKINGS ARE TO BE CONSTRUCTED OF HOT PLASTIC OR COLD PLASTIC IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

26 ALL EXCAVATED MATERIAL THAT IS NOT REQUIRED TO BE REUSED MUST BE REMOVED FROM THE PROJECT AREA WITHIN FOUR DAYS OF EXCAVATION. SPOIL PILES WILL BE ALLOWED ONLY AS DIRECTED BY THE CITY FIELD ENGINEER.

27 THE CONTRACTOR WILL COORDINATE THE CONSTRUCTION ACTIVITIES WITH ALL OTHER CONTRACTORS AND UTILITY COMPANIES WORKING IN THE SAME AREA. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE THEIR ACTIVITIES TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED WORK. NO ADDITIONAL COMPENSATION AND WILL BE ALLOWED FOR DELAYS OR INCONVENIENCE CAUSED BY UTILITY COMPANY WORK CREWS. A CONTRACT EXTENSION MAY BE ALLOWED AS DELINEATED IN CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS.

28 EXISTING MEDIAN CURB AND GUTTER AND STANDARD CURB AND GUTTER, NOT DISTURBED BY CONTRACTOR, BUT OUT OF ALIGNMENT, DISPLACED VERTICALLY, BADLY BROKEN AND/OR DETERIORATED, WILL BE REPLACED AS DIRECTED BY THE CITY FIELD ENGINEER AND PAID FOR AT CONTRACT UNIT PRICES.

29 ALL TRAFFIC CONTROL DEVICES REQUIRED FOR DRIVEWAY CLOSURES, UTILITY CONSTRUCTION OR FOR OTHER REASONS AND NOT SHOWN ON THE SIGNING PLANS WILL BE FURNISHED BY THE CONTRACTOR. PRIOR TO PLACING THE TRAFFIC CONTROL DEVICES, THE CONTRACTOR WILL NOTIFY THE AFFECTED OWNERS. CONTRACTOR MUST MAKE PROVISIONS TO PROVIDE ACCESS TO PROPERTIES.

30 ALL UTILITY LINES WHICH ARE NOT SPECIFICALLY DESIGNATED TO BE REMOVED AND REPLACED ON THE PLANS, WILL BE MAINTAINED IN SERVICE. SHORING, SHEETING AND OTHER MEANS OF SUPPORT SHALL BE EMPLOYED BY THE CONTRACTOR TO PREVENT DAMAGE OR LOSS OF THESE EXISTING UTILITIES. BEAM AND CABLE OR OTHER ADEQUATE SUPPORTS WILL BE USED FOR TEMPORARY SUPPORT OF ALL UTILITY LINES WHICH CROSS THE TRENCH. ANY DAMAGE TO EXISTING UTILITIES WILL PROMPTLY BE REPAIRED AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR WILL NOTIFY THE CITY OF ALBUQUERQUE CONSTRUCTION OBSERVER OR CONSTRUCTION MANAGER IMMEDIATELY OF ANY SIGNIFICANT DEVIATION OF EXPOSED UTILITIES FROM THE LOCATIONS SHOWN ON THE PLANS SO THAT CONFLICTS CAN BE RESOLVED IN A TIMELY MANNER.

31 THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO EXISTING COA, INFRASTRUCTURE (C & G, PAVING, ETC.) DURING CONSTRUCTION, APART FROM THOSE SECTIONS INDICATED FOR REMOVAL ON THE PLANS, AND WILL REPAIR OR REPLACE SAME AT HIS OWN EXPENSE. HE WILL SUITABLY PROTECT THE CURB AND GUTTER FROM INCIDENTAL SPLASHING DURING THE TACK COAT APPLICATION AND WILL BE RESPONSIBLE FOR CLEANING SAME AT HIS OWN COST SHOULD SPLASHING OCCUR.

32 ALL INTERFERING PORTIONS OF ABANDONED UTILITY LINES WHICH ARE EXPOSED AS A RESULT OF CONSTRUCTION WILL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.

33 SHORING COSTS WILL BE CONSIDERED INCIDENTAL TO THE TRENCH AND BACKFILL COSTS.

34 THE CONTRACTOR WILL BE RESPONSIBLE FOR SECURING NPDES PERMITS REQUIRED BY APPLICABLE CITY, STATE, AND FEDERAL REGULATIONS.

35 THE TERM REMOVE USED IN THIS PLAN SET INCLUDES THE DISPOSAL OF SAID MATERIAL IN ACCORDANCE WITH CITY OF ALBUQUERQUE SPECIFICATIONS, LATEST EDITION.

36 ALL ASPHALTIC CONCRETE SHALL BE MINIMUM 1800 LB. STABILITY AND COMPACTED TO 95% MODIFIED MARSHALL DENSITY UNLESS OTHERWISE NOTED ON THE PLANS.

37 ALL STRUCTURAL CONCRETE TO BE 4000 PSI UNLESS OTHERWISE NOTED ON PLANS.

38 ALL REINFORCING STEEL TO BE GRADE 60 UNLESS OTHERWISE NOTED ON PLANS.

39 ALL STORM DRAIN AND CONNECTOR PIPE WILL BE CLASS IV REINFORCED CONCRETE PIPE UNLESS OTHERWISE NOTED ON THE PLANS.

40 EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650.

41 CONTRACTOR IS ADVISED TO VISIT THE PROJECT SITE PRIOR TO BIDDING AND FAMILIARIZE THEMSELVES WITH FIELD CONDITIONS INCLUDING THE LOCATION OF UTILITIES SHOWN ON THE PLANS AND OHER UTILITIES/ OBSTACLES CLEARLY VISIBLE IN THE FIELD. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PLAN THEIR CONSTRUCTION METHODS TO ADEQUATELY SUPPORT AND/OR AVOID ALL UTILITIES SHOWN ON THE PLANS AND ALL UTILITIES/OBSTRUCTIONS CLEARLY VISIBLE IN THE FIELD. ANY RELOCATION OF UTILITIES OBSTACLES SHOWN ON THE PLANS OR VISIBLE IN THE FIELD IN ORDER TO COMPLETE THE REQUIRED WORK WILL BE CONSIDERED TO BE CONTRACTOR CONVENIENCE AND BE THE RESPONSIBILITY OF THE CONTRACTOR, UNLESS THE UTILITY/OBSTRUCTION IS IDENTIFIED ON THE PLANS AS BEING RELOCATABLE AS PART OF THE PROJECT. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL REQUIRED RELOCATIONS WITH APPROPRIATE UTILITIES/INDIVIDUALS.

42 ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECTORIZED PAVEMENT MARKINGS BY THE CONTRACTOR TO LOCATION AS EXISTING OR AS INDICATED BY THIS PLAN SET.

LEGEND:

- —X—X— EXISTING CHAIN LINK FENCE
- —OHE— EXISTING OVERHEAD ELECTRIC
- —EX 2" HP GAS— EXISTING 2" HP GAS
- EX 48" SAS EXISTING 48" SAS
- —EX 10" SAS— EXISTING SAS
- —EX 10" W— EXISTING WATER
- —EX 18" SD— EXISTING STORMDRAIN
- EXISTING BLOCK WALL
- EXISTING WATER VALVE
- EXISTING CATCH BASIN
- W.M. EXISTING WATER METER
- EXISTING MANHOLE
- NEW MANHOLE
- NEW JUNCTION BOX
- EXISTING FIRE HYDRANT
- EXISTING LIGHT POLE
- NEW ASPHALT PAVEMENT
- EXISTING TRAFFIC LIGHT
- EXISTING ASPHALT PAVEMENT
- C.O.A. CITY OF ALBUQUERQUE
- x 06.8 EXISTING SPOT ELEVATION
- 5100 EXISTING CONTOUR LINE
- EXISTING TREE
- NEW STORM DRAIN
- CENTERLINE
- 85.03 TA TOP OF ASPHALT ELEVATION
- EXISTING BUILDING
- EXISTING CURB AND GUTTER
- SURVEY CONTROL POINT
- EXISTING SIGN
- ROW
- —ESMNT— EXISTING EASEMENT LINE
- PROPOSED EASEMENT LINE
- PROPOSED CONTOURS
- PROPOSED WATERLINE
- PROPOSED WATERLINE VALVE
- PROPOSED WATERLINE BEND
- PROPOSED FIRE HYDRANT

AS BUILT INFORMATION
CONTRACTOR ESA CONSTRUCTION INC DATE 2JAN001
STAKED BY ESA CONS. INC. DATE 2JAN001
INSPECTED BY CLIFF DATE 2JAN001
ACCEPTANCE BY FIORENCHELLI C.O.A. DATE 2JAN001
FIELD VERIFICATION BY CLIFF DATE 2JAN001
DRAWINGS CORRECTED BY J. ALLEN BRUNGER DATE 2DEC99
SUBMITTED BY SMITH ENG. DATE 2DEC99
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
CITY OF ALBUQUERQUE ALUMINUM DISC 15-K20, LOCATED AT THE INTERSECTION OF LOMAS AND HENDRON ON CURB RETURN AT SW QUADRANT OF INTERSECTION.
ELEVATION 5379.64

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
1	RONALD A. FORSTBAUER SURVEYING COMPANY	11/96

ENGINEERS SEAL
LEASON M. CONLEY NEW MEXICO 10141 REGISTERED PROFESSIONAL ENGINEER
12/6/99

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY SEC	DATE 08/99
		DRAWN BY SEC	DATE 08/99
		CHECKED BY PJC/JPG	DATE 08/99

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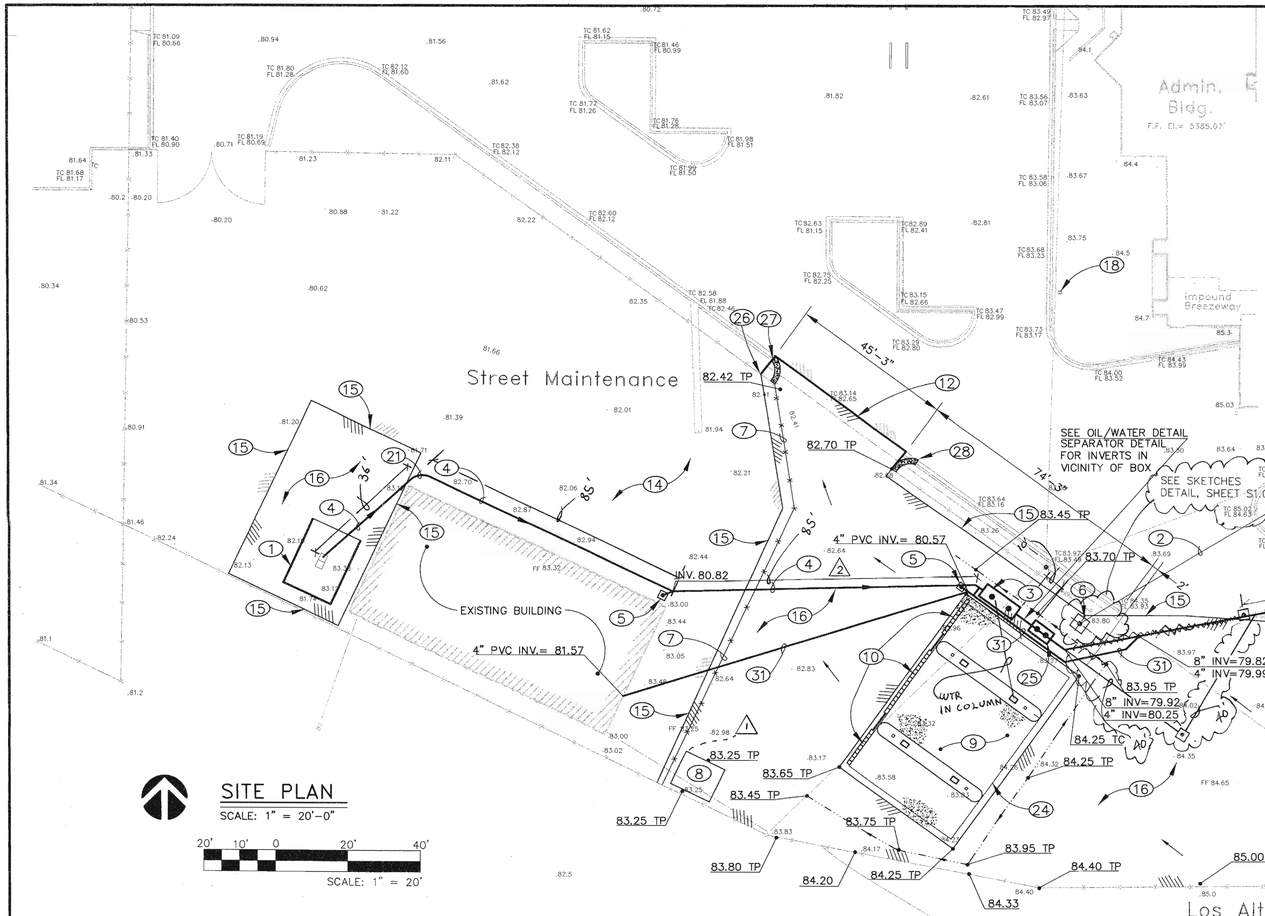
CITY OF ALBUQUERQUE
ENVIRONMENTAL HEALTH DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: EASTSIDE FUELING STATION

GENERAL NOTES, LEGEND & SURVEY CONTROL

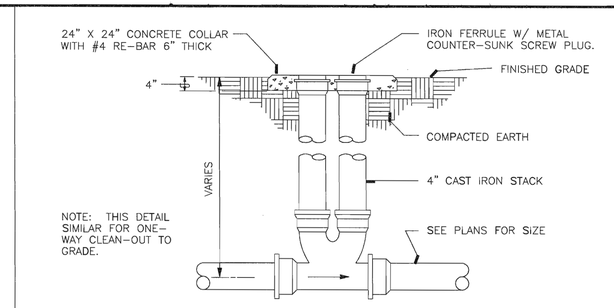
Design Review Committee: APPROVED FEB 17 2000 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED FEB 17 2000 CITY ENGINEER
Last Design Update: No. / Day / Yr.

City Project No.	Zone Map No.	Sheet	Of
6241.91	K-20-Z	2	12



SITE PLAN

SCALE: 1" = 20'-0"



CLEAN OUT DETAIL

SCALE: NONE

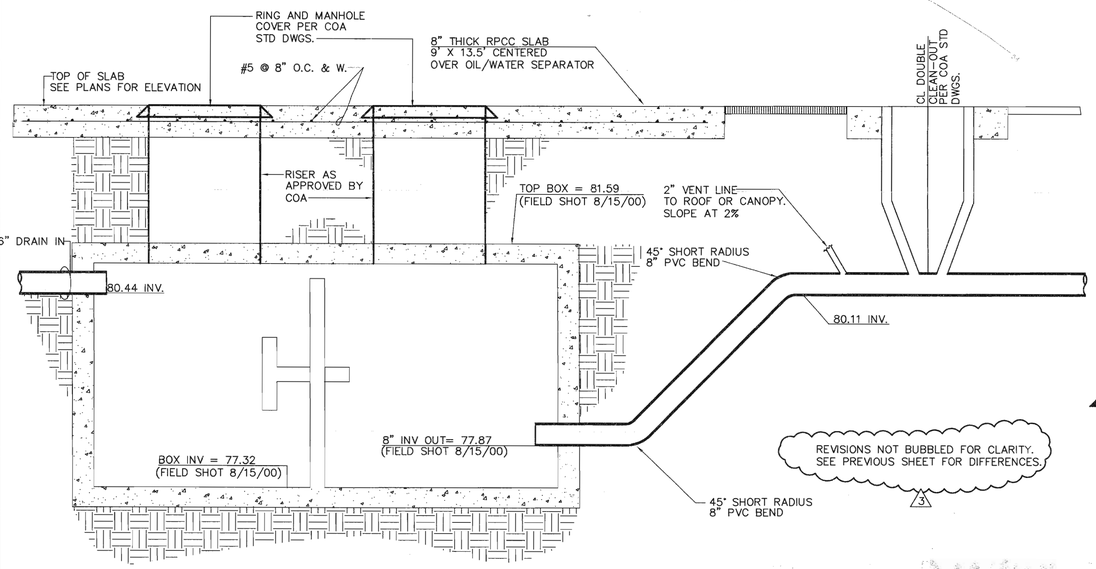
KEYED NOTES

1. NEW TRUCK WASHDOWN PAD. SEE SHEET C2.0 FOR DETAILS.
2. EXISTING COMPRESSED NATURAL GAS LINE.
3. OIL/WATER SEPARATOR. SEE DETAIL THIS SHEET.
4. 6" CL52 DUCTILE IRON DRAIN LINE AT SLOPE = 0.004 FT/FT. SEE PLAN FOR INVERTS
5. SINGLE CLEANOUT PER DETAIL D/C2.0.
6. COMPRESSED NATURAL GAS DISPENSER
7. 8' HIGH, CHAINLINK FENCE PER COA STD DWG 2252.
8. STORAGE AND LEAK MONITORING BUILDING. SEE SHEET S1.0 FOR NOTES AND SHEET S2.0 FOR FOUNDATION DETAIL.
9. FUELING AREA.
10. TRENCH DRAINS, SEE LAYOUT & DETAILS THIS SHEET AND C2.0.
11. NOT USED
12. REMOVE EXISTING PCC CURB-AND-GUTTER TO LIMITS SHOWN. CONSTRUCT NEW ASPHALT BETWEEN EXISTING PAVING IN AREA SHOWN. SEE PAVING PATCH DETAIL B/C2.0. MATCH EXISTING ASPHALT GRADES AT CUT EDGES.
13. NEW FUEL STORAGE TANKS. SEE MECHANICAL SHEETS FOR INSTALLATION DETAILS.
14. EXISTING PAVEMENT TO REMAIN.
15. SAWCUT EXISTING PAVEMENT. TACK EDGES BEFORE PLACING NEW ASPHALT. MATCH EXISTING GRADES.
16. NEW ASPHALT PAVING. SEE DETAIL B/C2.0.
17. CONNECT NEW 8" PVC DRAIN TO EXISTING MANHOLE. NEW 8" CONNECTION INVERT = 78.79 . (FIELD SHOT 8/15/00).
18. EXISTING FIRE HYDRANT
19. 8" PVC DRAIN LINE AT SLOPE 0.005 FT/FT, SEE PLAN FOR INVERTS.
20. EXPANSION JOINT IN RPCC PAVING PER C.O.A. STD. DWG,
21. INSTALL LONG SWEEP THROUGH THIS BEND.
22. EXPANSION JOINTS, SEE PCC PAD DETAIL SHEET C2.0.
23. SEE SHEET S2.0 FOR DETAILS ON RAISED ISLAND.
24. CANOPY ROOF OUTLINE. SEE SHEET A1.0. ROOF CANOPY TO BE ADDITIVE ALTERNATE.
25. DOUBLE CLEAN-OUT PER DETAIL SHEET C 1.0.
26. CONNECT NEW FENCE TO EXISTING. USE NEW END POSTS AS REQUIRED.
27. CONSTRUCT 6' RADIUS RETURN. STOP AT NEW FENCE LINE. MATCH EXISTING C & G.
28. CONSTRUCT 6' RADIUS RETURN. STOP AT NEW FENCE LINE. MATCH EXISTING C & G.
29. PIPE VENT TO ATMOSPHERE. SEE DETAIL SHEET M1.02.
30. 2" PVC VENT LINE.
31. 4" SCH 40 PVC SAS @ SLOPE = 0.01 FT/FT.
32. CONNECT NEW 4" SAS TO NEW 8" SAS.

NOTE:
CONTRACTOR SHALL FIELD VERIFY THE EXISTING SAS MANHOLE INVERT (KEYED NOTE 17). IF THE EXISTING INVERT IS ABOVE THE PROPOSED CONNECTION ELEVATION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SUCH THAT SLOPES OF DRAINS MAY BE MODIFIED.

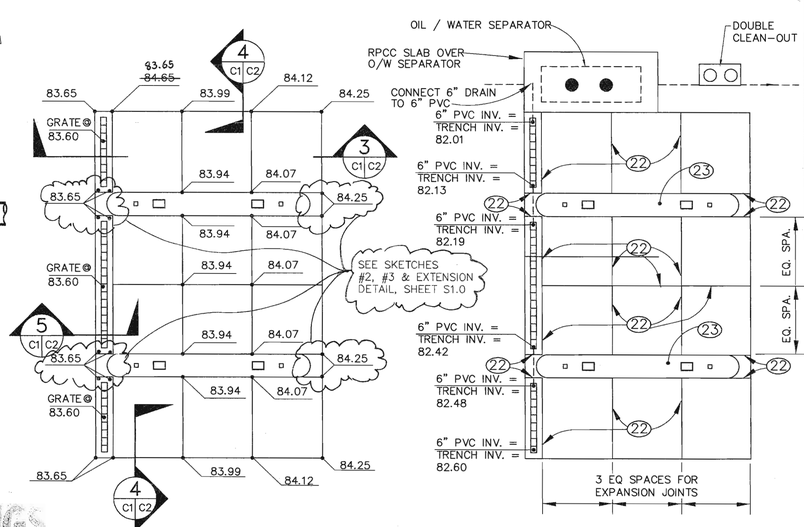
LEGEND

- NEW ASPHALT
- EXISTING ASPHALT
- 84.30 EXISTING SPOT ELEVATION
- 84.30 PROPOSED SPOT ELEVATION
- EXISTING FENCE
- PROPOSED FENCE



OIL / WATER SEPARATOR DETAIL

SCALE: NONE



PPC PAD PLAN VIEW

NOT TO SCALE

PIPE INVERTS @ TRENCH DRAIN

NOT TO SCALE

RECORD DRAWINGS

AS BUILT INFORMATION	
CONTRACTOR ESA CONSTRUCTION INC.	DATE 2MAY01
WORK STAKED BY ESA CONS. INC.	DATE 2MAY01
ACCEPTANCE BY PEDRONCELLI C.O.A.	DATE 2MAY01
FIELD LOCATION BY PEDRONCELLI C.O.A.	DATE 2MAY01
DRAWINGS CORRECTED BY J. ALLEN BOLINGER	DATE 26SEP01
MICRO-FILM INFORMATION	DATE
RECORDED BY	
NO.	

BENCH MARKS
CITY OF ALBUQUERQUE ALUMINUM DISC 15-K20, LOCATED AT THE INTERSECTION OF LOMAS AND HENDRON ON CURB RETURN AT SW QUADRANT OF INTERSECTION. ELEVATION 5379.64

SURVEY INFORMATION FIELD NOTES		
NO.	BY	DATE
1	RONALD A. FORSTBAUER SURVEYING COMPANY	11/96

ENGINEERS SEAL

PATRICK J. CONLEY NEW MEXICO 14009 REGISTERED PROFESSIONAL ENGINEER 8/18/00

NO.	DATE	REMARKS	BY
4	9/06/00	MODIFY WASHPAD GRADES	PJC
3	8/16/00	MODIFY SAS LAYOUT AND GRADES AND OIL/WATER SEPARATOR	PJC
2	8/08/00	ADDITIONAL SANITARY SEWER LINE	PJC
1	7/20/00	MODIFICATION OF OIL/WATER SEPARATOR	PJC

REVISIONS

DESIGN		
DESIGNED BY	SEC	DATE 08/99
DRAWN BY	SEC	DATE 08/99
CHECKED BY	PJC/JPG	DATE 08/99

199533
Smith Engineering Company
A Full Service Engineering Company
6400 Uptown Boulevard, N.E. Suite 600E Albuquerque, New Mexico 87110

CITY OF ALBUQUERQUE
ENVIRONMENTAL HEALTH DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

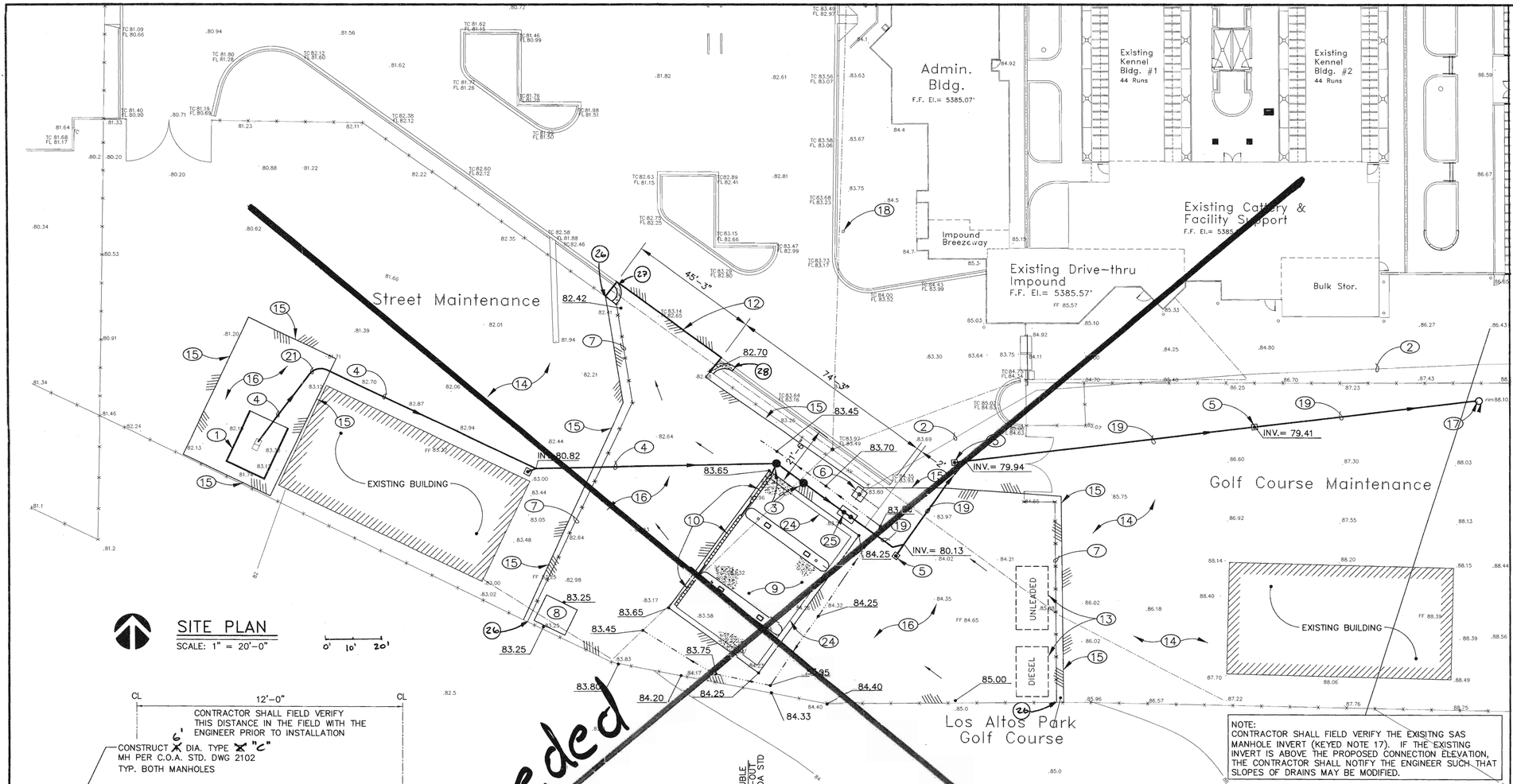
TITLE: EASTSIDE FUELING STATION

PROPOSED REFUELING STATION

Design Review Committee	City Engineer Approval	Last Design Update	No. / Day / Yr.	No. / Day / Yr.

City Project No. 6241.91 | Zone Map No. K-20-Z | Sheet C1.0 Of 12

Z:\Eac_Cadd\500\199533\TEMPC03.dwg Tue Sep 04 10:38:07 2001 J. ALLEN BOLINGER



SITE PLAN

SCALE: 1" = 20'-0"

0' 10' 20'

KEYED NOTES

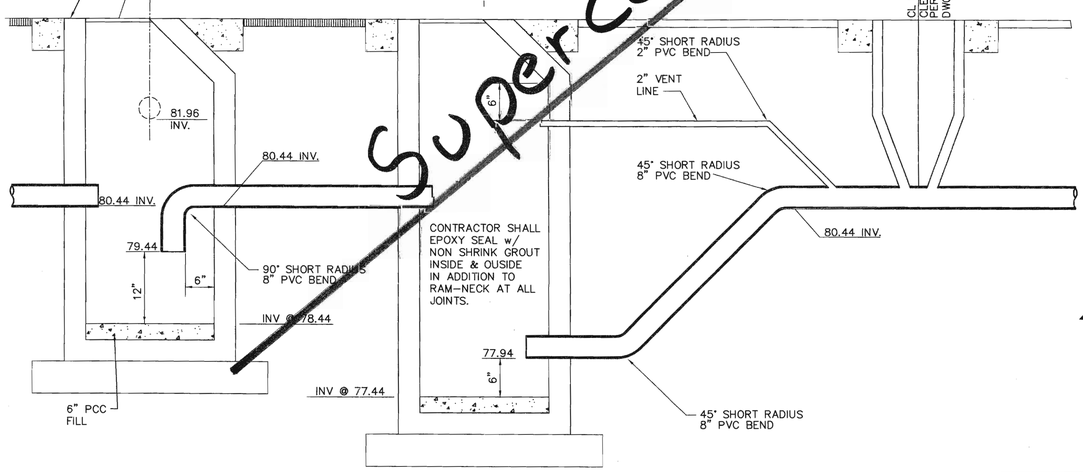
1. NEW TRUCK WASHDOWN PAD. SEE SHEET C2.0 FOR DETAILS.
2. EXISTING COMPRESSED NATURAL GAS LINE.
3. OIL/WATER SEPARATOR. SEE DETAIL THIS SHEET.
4. 6" CL52 DUCTILE IRON DRAIN LINE. SEE PLAN FOR INVERTS
5. SINGLE CLEANOUT PER DETAIL D/C2.0.
6. COMPRESSED NATURAL GAS DISPENSER
7. 8' HIGH, CHAINLINK FENCE PER COA STD DWG 2252.
8. STORAGE AND LEAK MONITORING BUILDING. SEE SHEET S1.0 FOR NOTES AND SHEET S2.0 FOR FOUNDATION DETAIL.
9. FUELING AREA.
10. TRENCH DRAINS, SEE LAYOUT & DETAILS THIS SHEET AND C2.0.
11. NOT USED
12. REMOVE EXISTING PCC CURB-AND-GUTTER TO LIMITS SHOWN. CONSTRUCT NEW ASPHALT BETWEEN EXISTING PAVING IN AREA SHOWN. SEE PAVING PATCH DETAIL B/C2.0. MATCH EXISTING ASPHALT GRADES AT CUT EDGES.
13. NEW FUEL STORAGE TANKS. SEE MECHANICAL SHEETS FOR INSTALLATION DETAILS.
14. EXISTING PAVEMENT TO REMAIN.
15. SAWCUT EXISTING PAVEMENT. TACK EDGES BEFORE PLACING NEW ASPHALT. MATCH EXISTING GRADES.
16. NEW ASPHALT PAVING. SEE DETAIL B/C2.0.
17. CONNECT NEW 8" PVC DRAIN TO EXISTING MANHOLE. NEW 8" CONNECTION INVERT = 79.00 .
18. EXISTING FIRE HYDRANT
19. 8" PVC DRAIN LINE, SEE PLAN FOR INVERTS.
20. EXPANSION JOINT IN RPCC PAVING PER C.O.A. STD. DWG,
21. INSTALL LONG SWEEP THROUGH THIS BEND.
22. EXPANSION JOINTS, SEE PCC PAD DETAIL SHEET C2.0.
23. SEE SHEET S2.0 FOR DETAILS ON RAISED ISLAND.
24. CANOPY ROOF OUTLINE. SEE SHEET A1.0. ROOF CANOPY TO BE ADDITIVE ALTERNATE.
25. DOUBLE CLEAN-OUT PER COA STD. DRAWINGS.
26. CONNECT NEW FENCE TO EXISTING. USE NEW END POSTS AS REQ'D.
27. CONSTRUCT 6' RADIUS RETWLN. ~~(SHOT STANDARD SIZE)~~. STOP AT NEW FENCE LINE. MATCH EXIST. C.L.G.
28. CONSTRUCT 7' RADIUS RETURN. ~~(USING STD. SIZE)~~. STOP AT NEW FENCE LINE. MATCH EXIST. C.L.G.

LEGEND

- NEW ASPHALT
- EXISTING ASPHALT
- 84.30 EXISTING SPOT ELEVATION
- 84.30 PROPOSED SPOT ELEVATION
- EXISTING FENCE
- PROPOSED FENCE

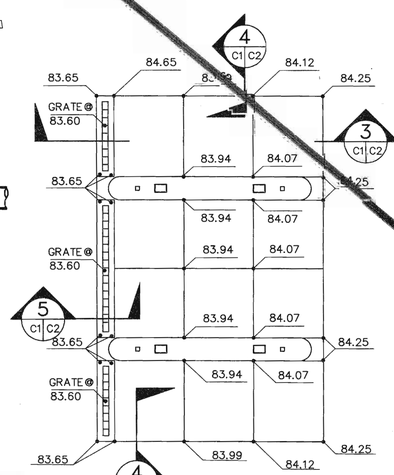
OIL / WATER SEPARATOR DETAIL

SCALE: NONE



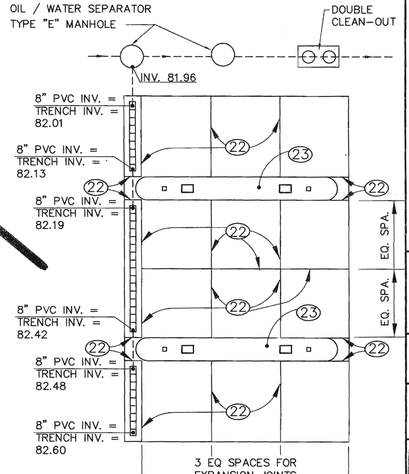
PPC PAD PLAN VIEW

NOT TO SCALE



PIPE INVERTS @ TRENCH DRAIN

NOT TO SCALE



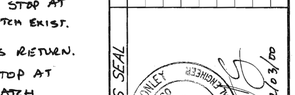
AS BUILT INFORMATION
CONTRACTOR ESA CONSTRUCTION INC. DATE 23AUG01
SURVEYED BY ESA CONS. INC. DATE 23AUG01
INSPECTOR'S ACCEPTANCE BY CLIFF FIELDSMITH P.E. DATE 23AUG01
FIELD VERIFICATION BY PEDRONCELLI C.O.A. DATE 23AUG01
AS-BUILTED BY ANN SLONAKER DATE 25SEP01
CORRECTED BY SMILEY E.R. DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
CITY OF ALBUQUERQUE ALUMINUM DISC 15-K20, LOCATED AT THE INTERSECTION OF LOMAS AND HENDRON ON CURB
RETURN AT SW QUADRANT OF INTERSECTION.
ELEVATION 5379.64

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
1	RONALD A. FORSTBAUER SURVEYING COMPANY	11/96

ENGINEERS SEAL



06/30/00

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY SEC	DATE 08/99
		DRAWN BY SEC	DATE 08/99
		CHECKED BY PJC/JPG	DATE 08/99

199533
Smith Engineering Company
A Full Service Engineering Company
6400 Uptown Boulevard, N.E. Suite 500E Albuquerque, New Mexico 87110

CITY OF ALBUQUERQUE
ENVIRONMENTAL HEALTH DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

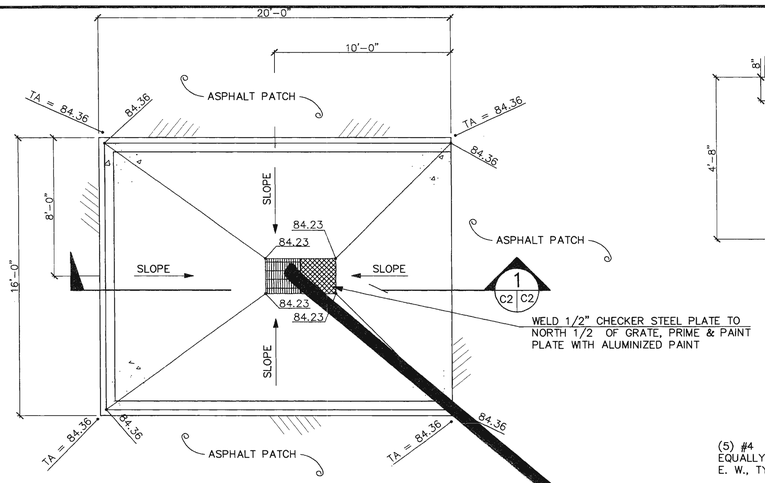
TITLE: EASTSIDE FUELING STATION

PROPOSED REFUELING STATION

Design Review Committee: APPROVED FEB 17 2000 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED FEB 17 2000 CITY ENGINEER
Last Design Update

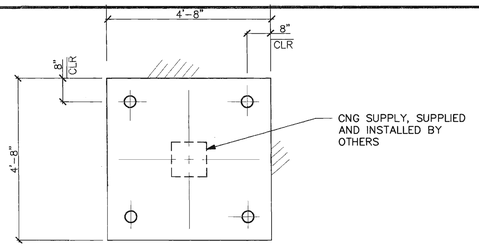
No. / Day / Yr.	No. / Day / Yr.

City Project No. 624191 | Zone Map No. K-20-Z | Sheet C1.0 Of 12

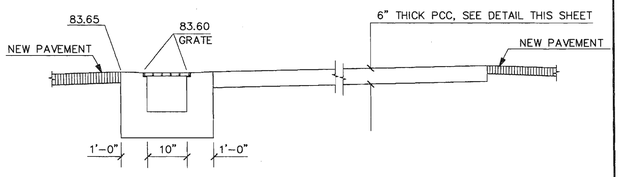


WASH-PAD LAYOUT

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



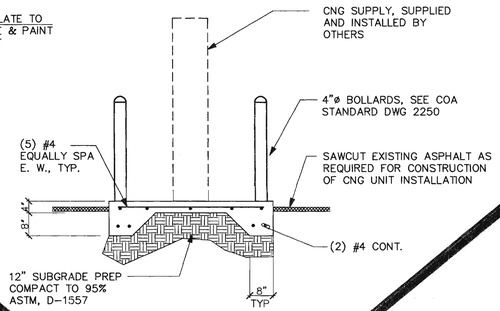
PLAN VIEW



3 SECTION: PCC PAD TYPICAL EACH BAY

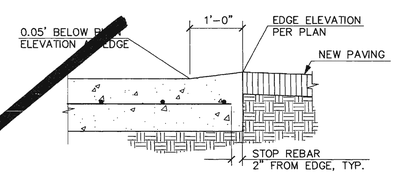
C1 C2

SCALE: NONE



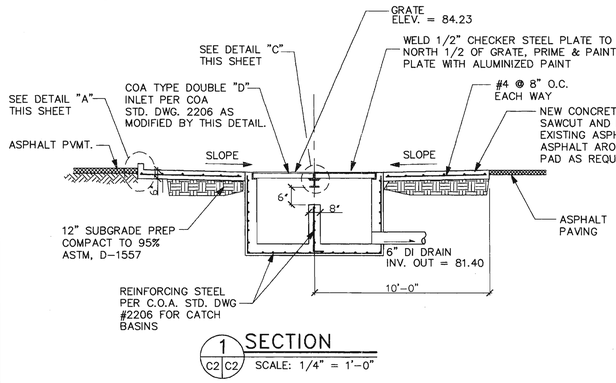
2 SECTION

C2 C2 SCALE: 1/2" = 1'-0"



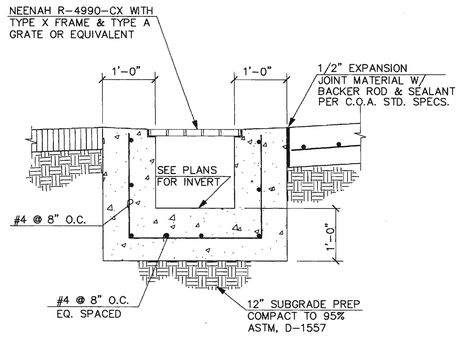
4 SECTION: EDGE OF FUELING STATION PAD

C1 C2 SCALE: NONE



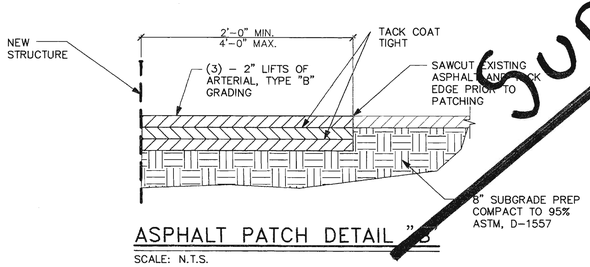
1 SECTION

C2 C2 SCALE: 1/4" = 1'-0"



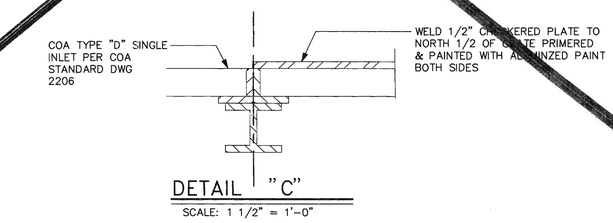
5 SECTION: TRENCH DRAIN

C1 C2 SCALE: NONE



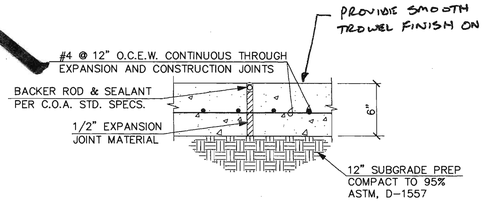
ASPHALT PATCH DETAIL "B"

SCALE: N.T.S.



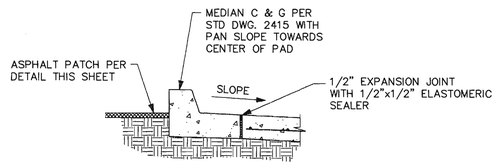
DETAIL "C"

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



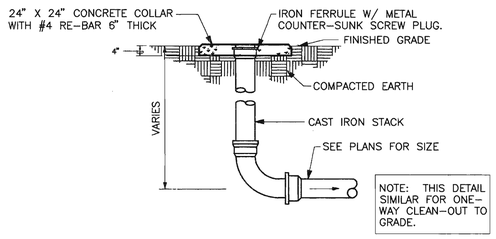
PCC PAD DETAIL: FOR WASH PAD AND FUELING STATION

SCALE: NONE



DETAIL "A"

SCALE: N.T.S.



SINGLE CLEAN OUT DETAIL "D"

SCALE: NONE

Superseded

RECORD DRAWINGS

AS BUILT INFORMATION
CONTRACTOR ESA CONSTRUCTION INC
STAKED BY ESA CONS. INC. DATE 23AUG01
INSPECTOR'S ACCEPTANCE BY CLIFF MCELL C.O.A. DATE 23AUG01
FIELD VERIFICATION BY CLIFF DATE 23AUG01
FINAL INSPECTION BY CLIFF DATE 25SEP01
CORRECTED BY SMITH ENGR
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
CITY OF ALBUQUERQUE ALUMINUM DISC 15-K20, LOCATED AT THE INTERSECTION OF LOMAS AND HENDRON ON CURB RETURN AT SW QUADRANT OF INTERSECTION.
ELEVATION 5379.64

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
1	RONALD A. FORSTBAUER SURVEYING COMPANY	11/96

ENGINEERS SEAL
PATRICK J. CONLEY NEW MEXICO 9641 REGISTERED PROFESSIONAL ENGINEER
12/03/00

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY	SEC
	08/99	DATE	
		DRAWN BY	SEC
	08/99	DATE	
		CHECKED BY	PJC/JPG
	08/99	DATE	

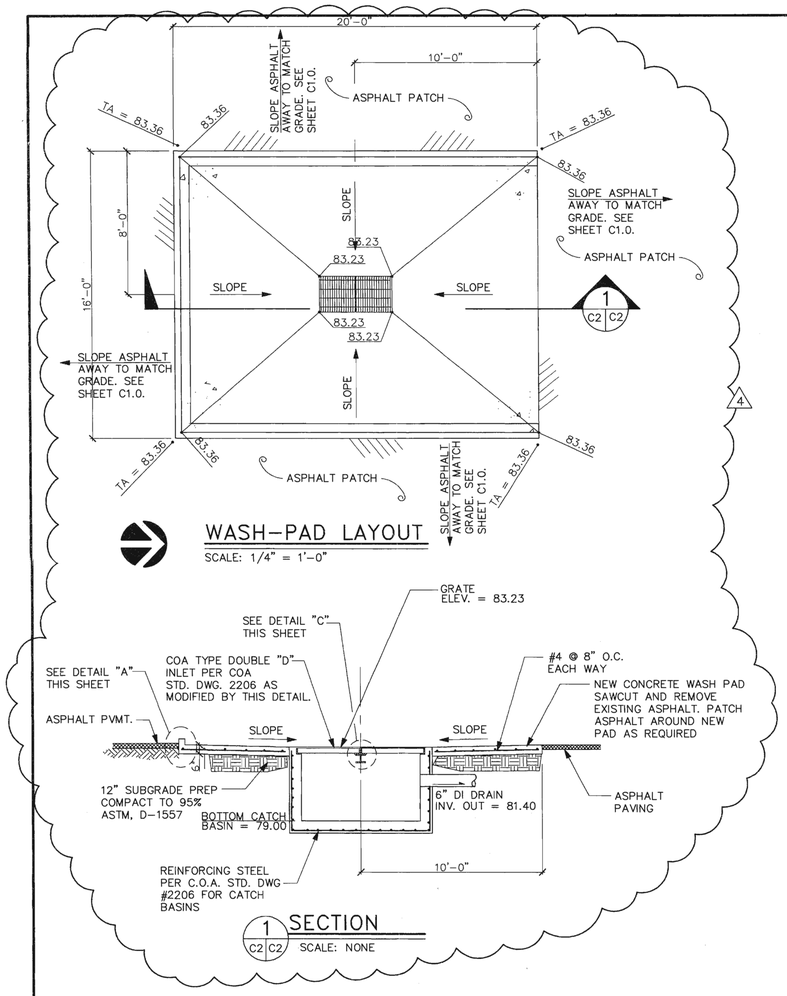
199533
Smith Engineering Company
A Full Service Engineering Company
6400 Uptown Boulevard, N.E. Suite 500W Albuquerque, New Mexico 87110

CITY OF ALBUQUERQUE
ENVIRONMENTAL HEALTH DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: EASTSIDE FUELING STATION
MISC SECTION AND DETAILS

Design Review Committee: APPROVED FEB 17 2000 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED FEB 17 2000 CITY ENGINEER
Last Design Update: No. / Day / Yr.

City Project No. 624191 | Zone Map No. K-20-Z | Sheet C2.0 Of 12

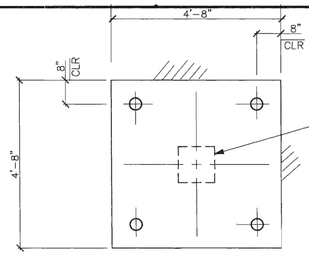


WASH-PAD LAYOUT

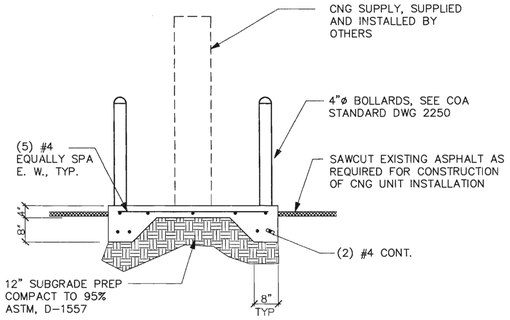
SCALE: 1/4" = 1'-0"

1 SECTION

C2 C2 SCALE: NONE

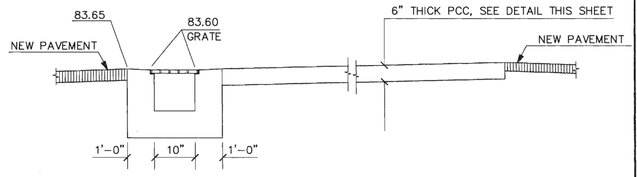


PLAN VIEW



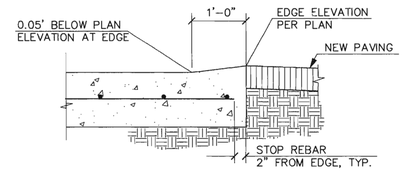
2 SECTION

C2 C2 SCALE: 1/2" = 1'-0"



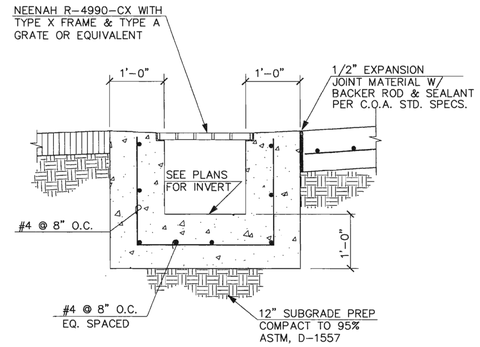
3 SECTION: PCC PAD TYPICAL EACH BAY

C1 C2 SCALE: NONE



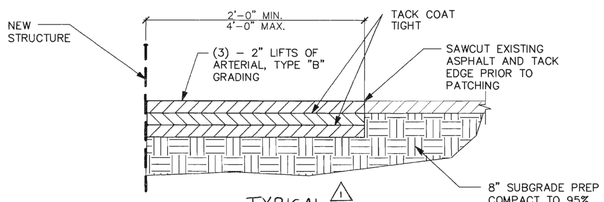
4 SECTION: EDGE OF FUELING STATION PAD

C1 C2 SCALE: NONE



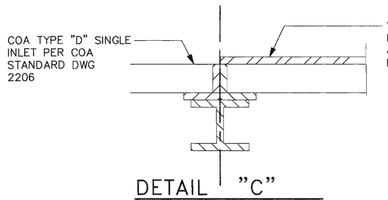
5 SECTION: TRENCH DRAIN

C1 C2 SCALE: NONE



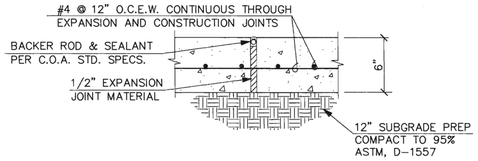
TYPICAL ASPHALT ~~PATCH~~ DETAIL "B"

SCALE: N.T.S.



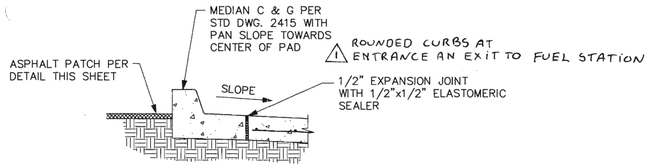
DETAIL "C"

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



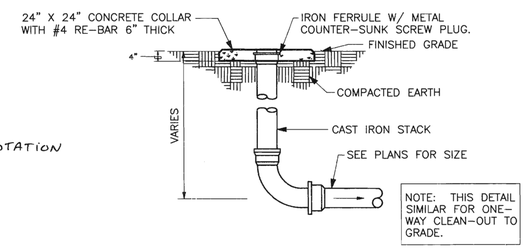
PCC PAD DETAIL: FOR WASH PAD AND FUELING STATION

SCALE: NONE



DETAIL "A"

SCALE: N.T.S.



SINGLE CLEAN OUT DETAIL "D"

SCALE: NONE

RECORD DRAWINGS

AS BUILT INFORMATION
CONTRACTOR ESA CONSTRUCTION INC
WORK STARTED BY ESA CONS. INC. DATE 23AUG01
INSPECTIONS BY CLIFF
ACCEPTANCE BY PERFECTO CONLEY, C.O.A. DATE 23AUG01
FIELD VERIFICATION BY CLIFF DATE 23AUG01
FINAL DRAWINGS BY PERFECTO CONLEY, C.O.A.
CORRECTED BY SMITH ENGR DATE 25SEP01
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
CITY OF ALBUQUERQUE ALUMINUM DISC 15-K20, LOCATED AT THE INTERSECTION OF LOMAS AND HENDRON ON CURB
RETURN AT SW QUADRANT OF INTERSECTION.
ELEVATION 5379.64

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
1	RONALD A. FORSTBAUER SURVEYING COMPANY	11/96

ENGINEERS SEAL
PATRICK J. CONLEY NEW MEXICO 14010 REGISTERED PROFESSIONAL ENGINEER
4/6/00

NO.	DATE	REMARKS
1	7/20/00	MODIFY WASHPAD GRADES
2	8/08/00	MODIFICATION OF OIL/WATER SEPARATOR
3	8/18/00	ADDITIONAL SANITARY SEWER LINE
4	9/06/00	MODIFY SAS LAYOUT AND GRADES AND OIL/WATER SEPARATOR

REVISIONS

	BY	DATE
DESIGNED BY	PJC	08/99
DRAWN BY	PJC	08/99
CHECKED BY	PJC	08/99
DESIGN	SEC	SEC
	PJC/JPG	

199533
Smith Engineering Company
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6400 Uptown Boulevard, N.E. Suite 500E Albuquerque, New Mexico 87110

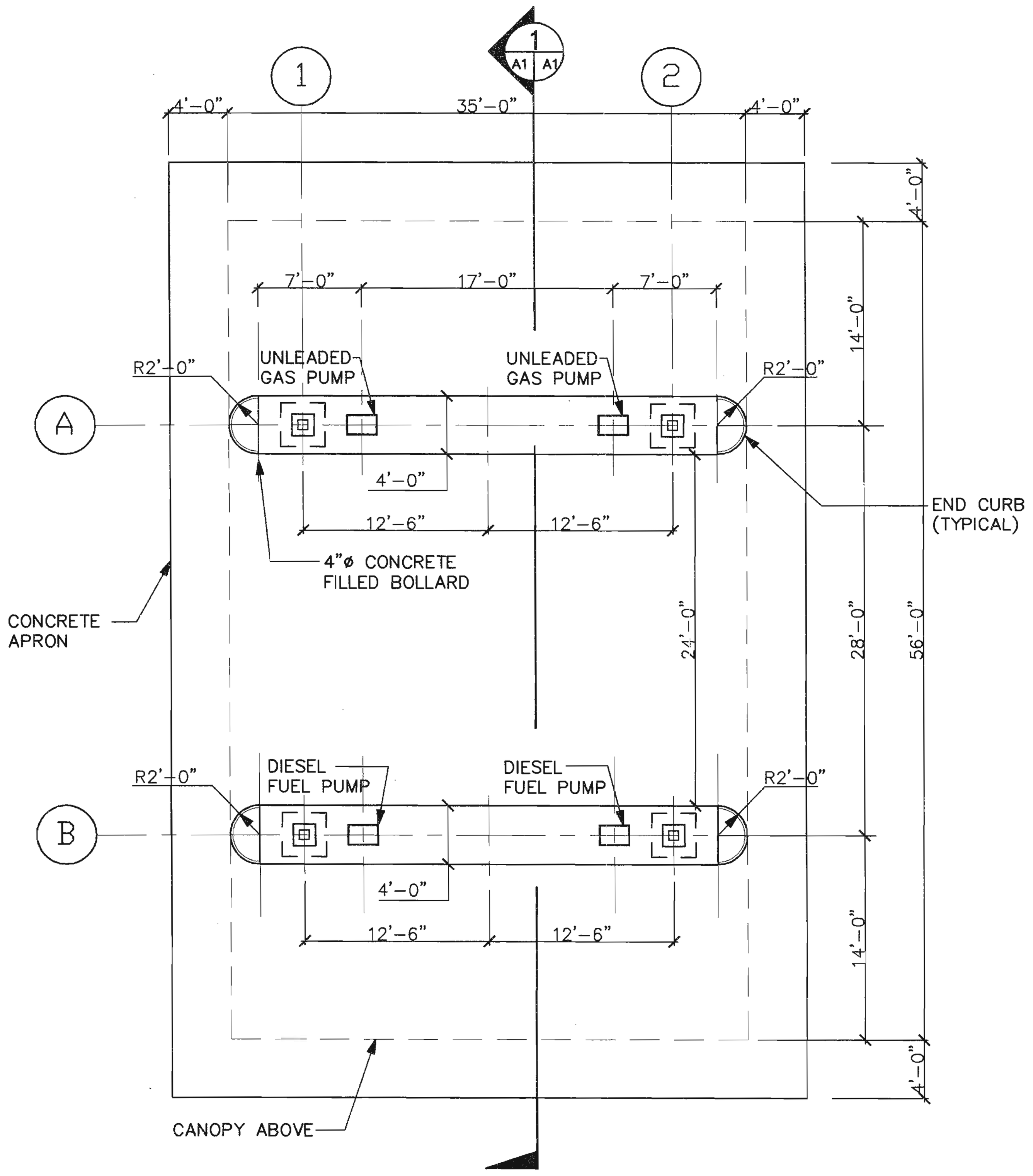
CITY OF ALBUQUERQUE
ENVIRONMENTAL HEALTH DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: EASTSIDE FUELING STATION
MISC SECTION AND DETAILS

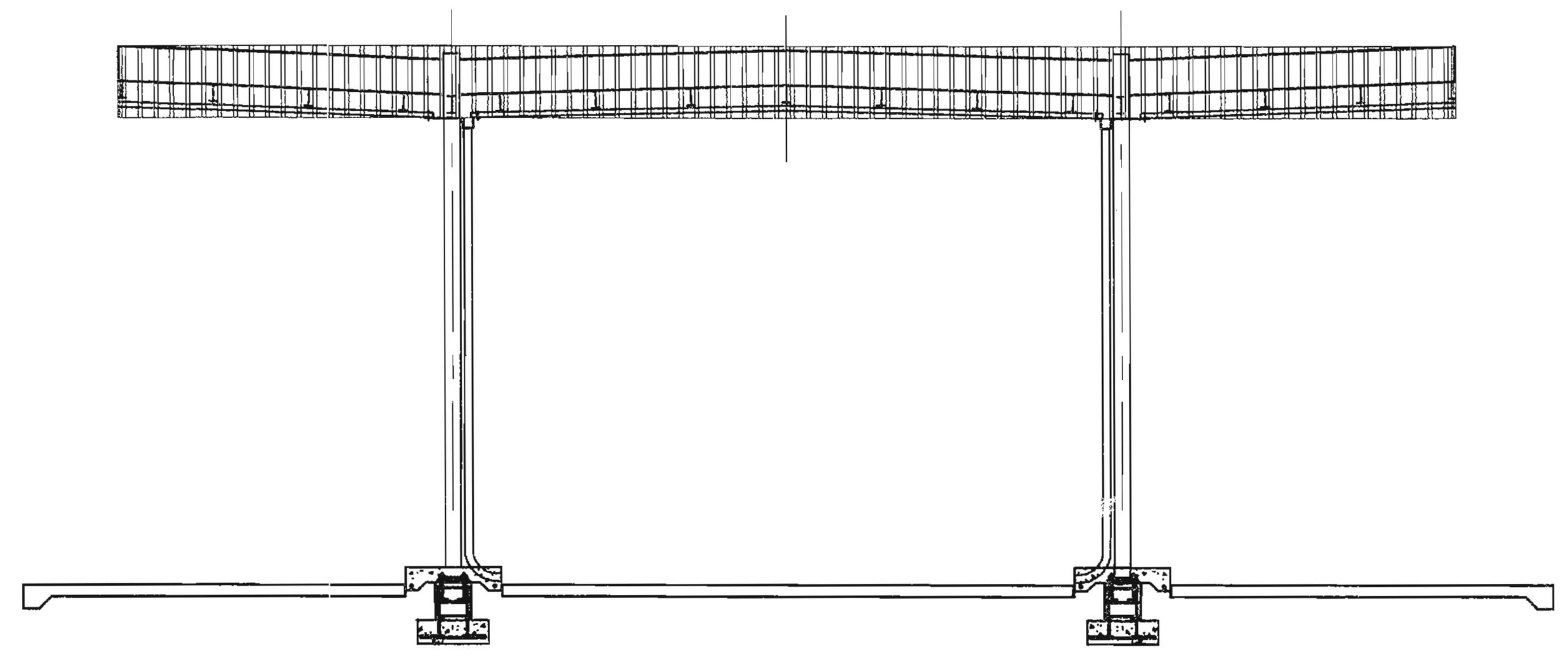
Design Review Committee	City Engineer Approval	Last Design Update	No. / Day / Yr.	No. / Day / Yr.

City Project No. 624191 | Zone Map No. K-20-Z | Sheet C2.0 Of 12

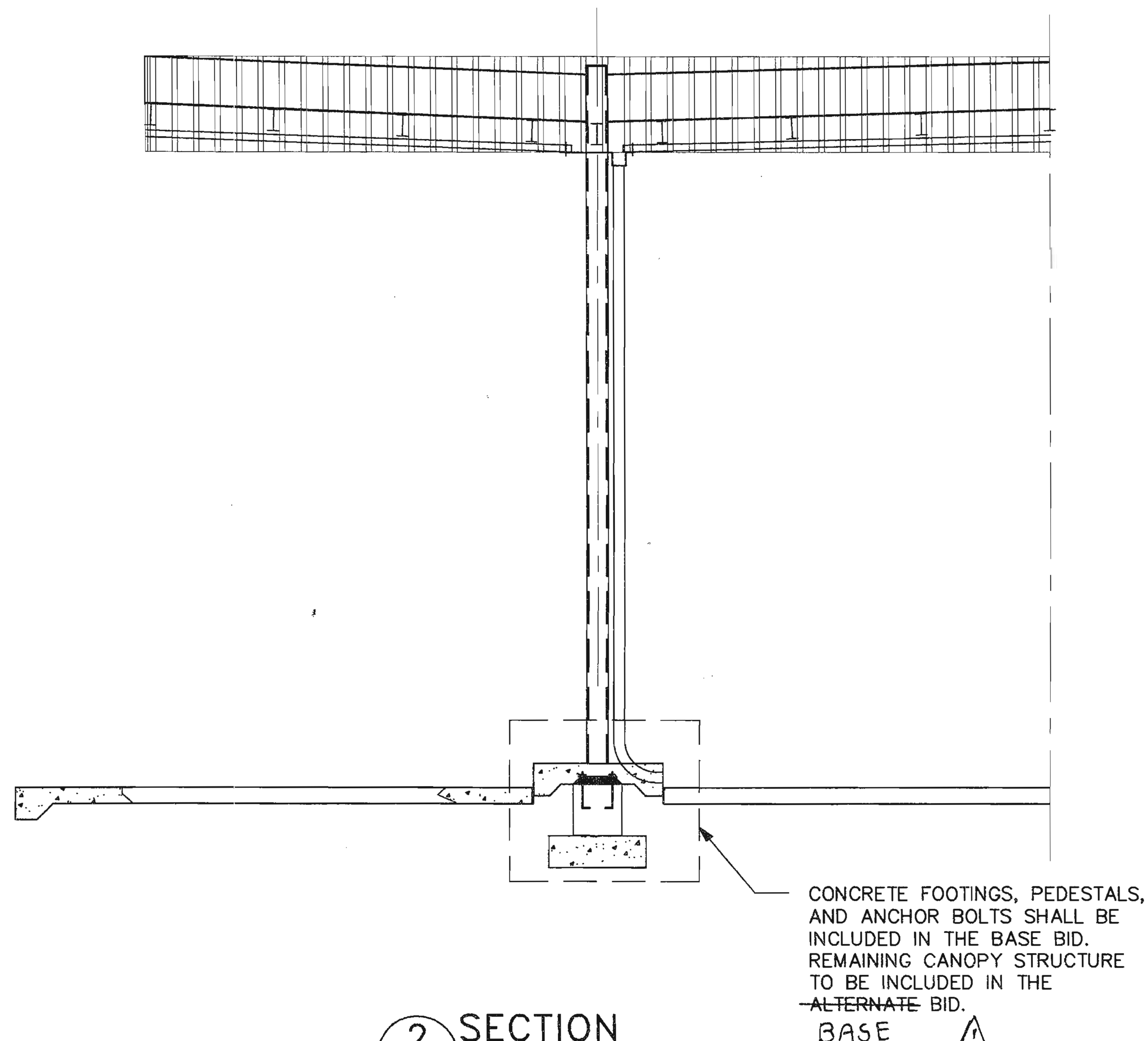
Z:\Esc_Cad\1500\199533\199533C2.dwg Tue Sep 04 10:54:51 2001 J. ALLEN BOLINGER



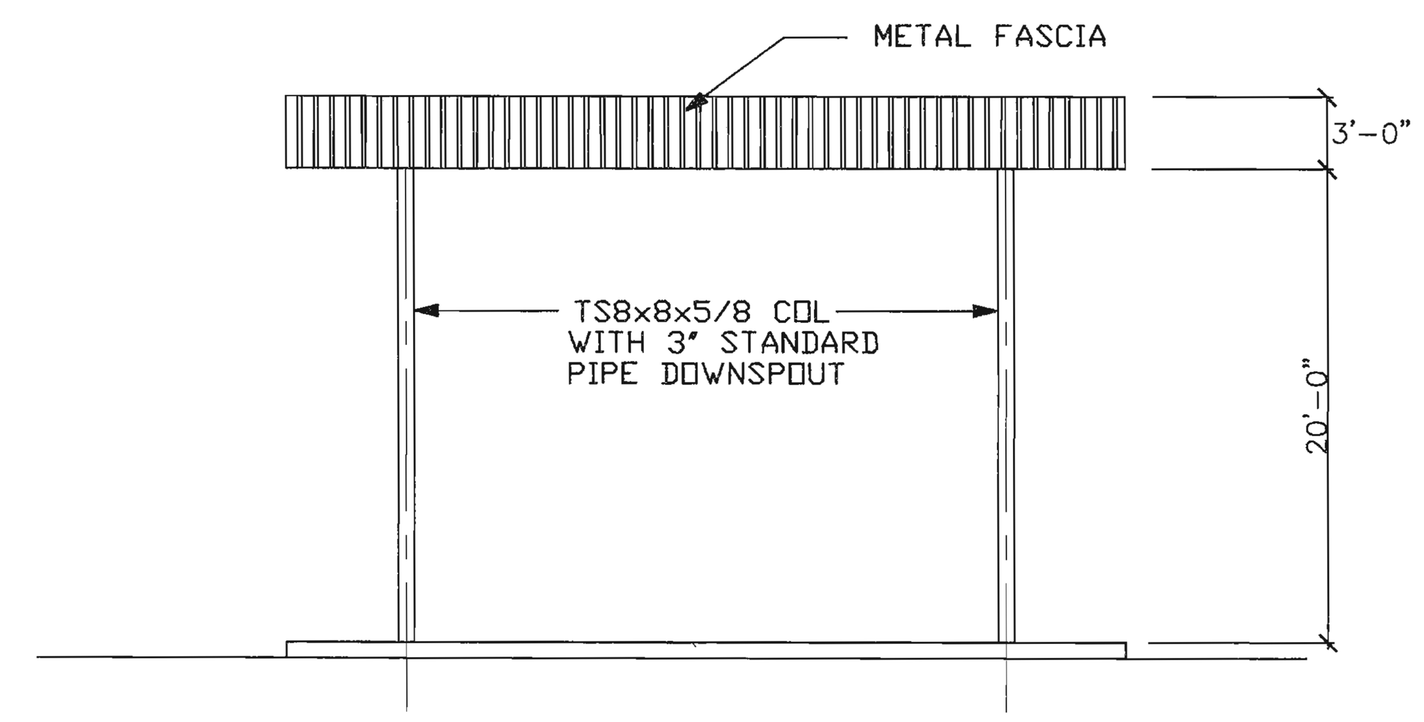
FUELING STATION PLAN
SCALE: 1/8" = 1'-0"



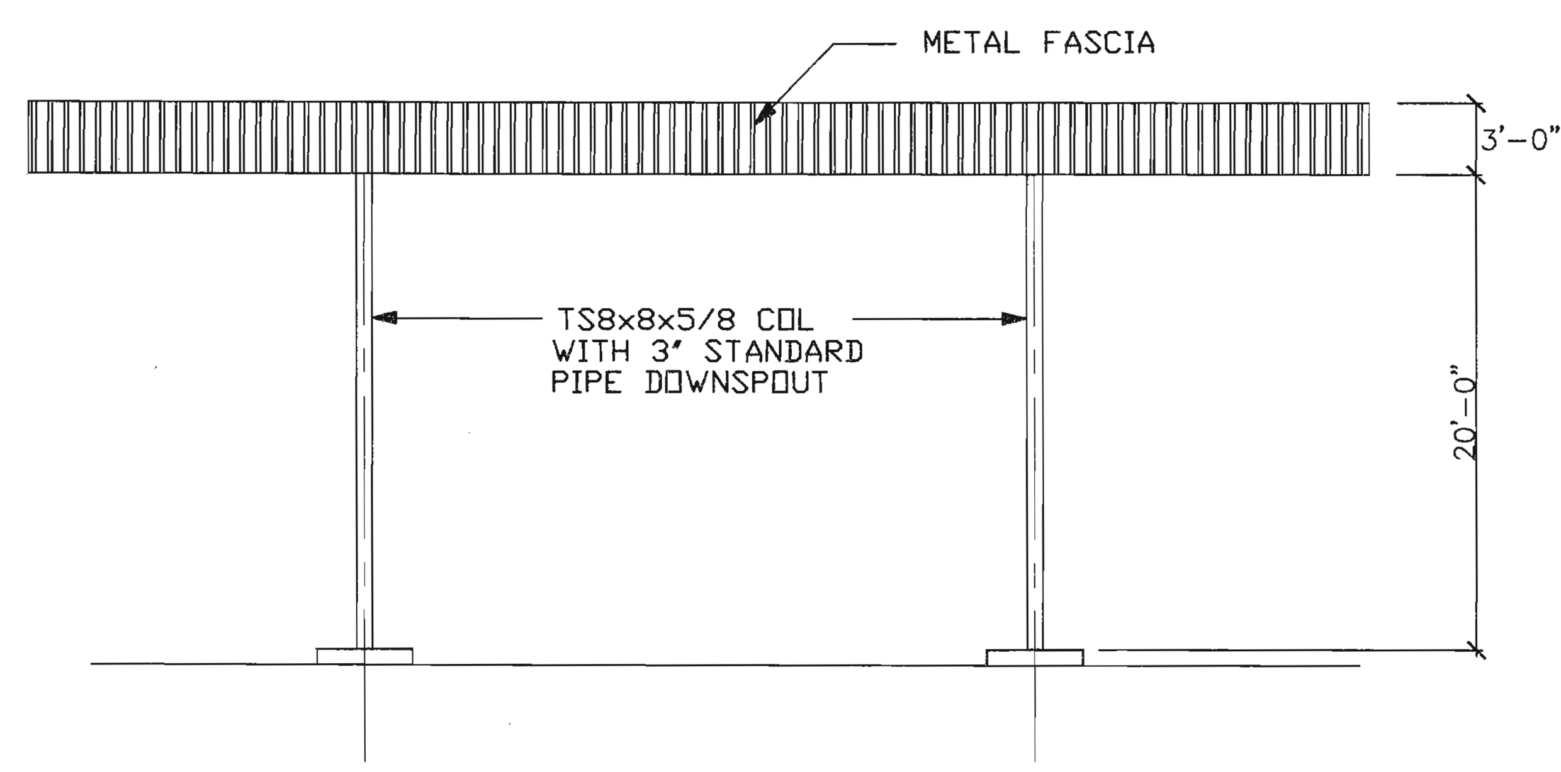
1 CANOPY CROSS SECTION
A1 A1 SCALE: 1/8" = 1'-0"



2 SECTION
A1 A1 SCALE: 1/4" = 1'-0"



NORTH ELEVATION
SCALE: 1/8" = 1'-0"

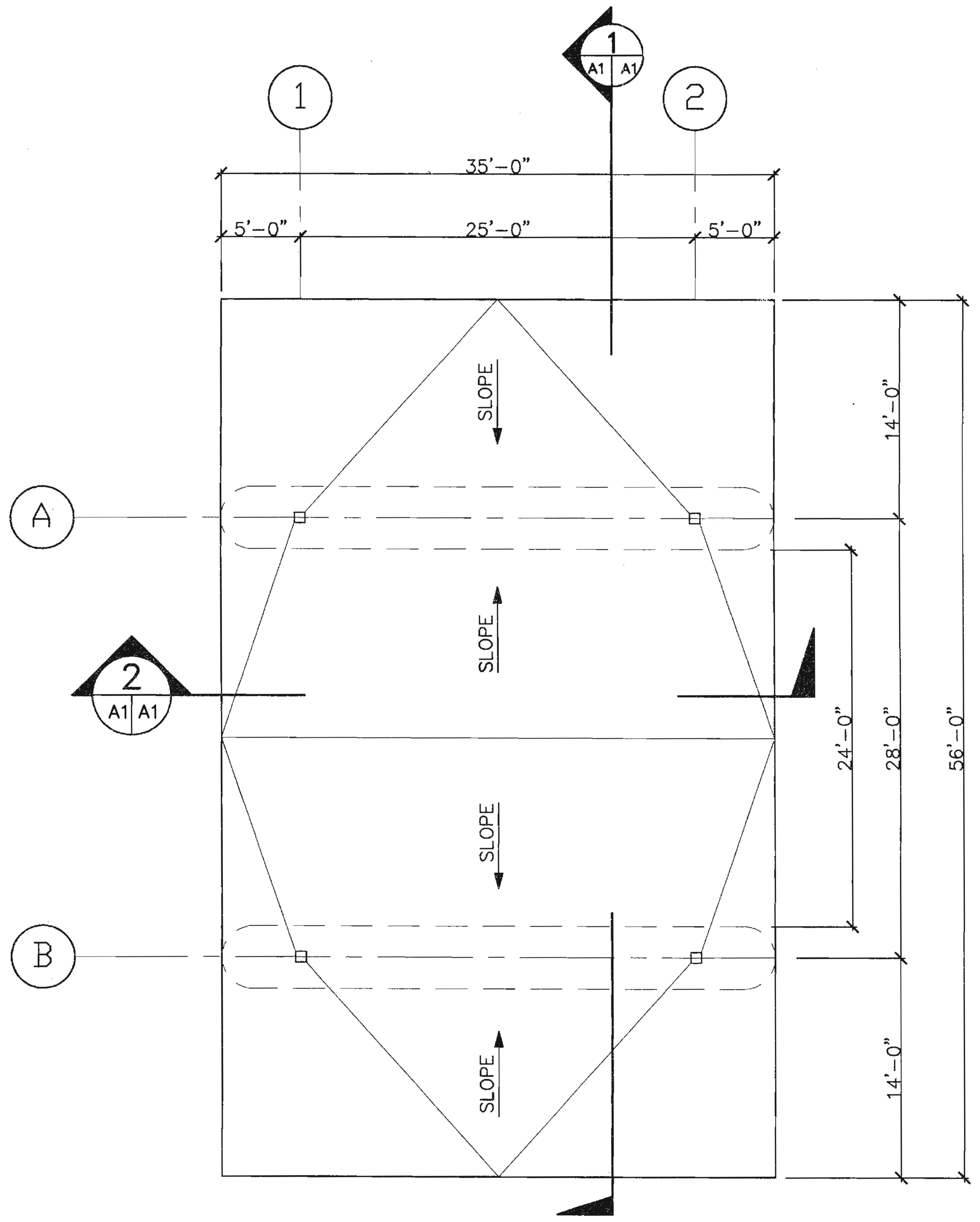


WEST ELEVATION
SCALE: 1/8" = 1'-0"

NOTE:

1 EXTERIOR FINISH TO BE PRECOATED FACTORY ENAMEL WALL AND ZINC-ALUMINUM ALLOY COATED STEEL ROOF AND FASCIA AS SELECTED BY THE CITY FROM MANUFACTURER'S STANDARD COLORS.

2 ~~CANOPY AND COLUMNS ARE ADDITIVE ALTERNATE TO PROJECT.~~
CANOPY IS PART OF BASE BID PER ADDENDUM #1



CANOPY STATION ROOF PLAN
SCALE: 1/8" = 1'-0"

RECORD DRAWINGS

AS BUILT INFORMATION
CONTRACTOR ESA CONSTRUCTION INC
WORK STAKED BY ESA CONS. INC. DATE 23AUG01
INSPECTOR'S ACCEPTANCE BY CLIFF DATE 23AUG01
FIELD VERIFICATION BY CLIFF DATE 23AUG01
DRAWINGS CORRECTED BY SMITH ENGR. DATE 25SEP01

MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
CITY OF ALBUQUERQUE ALUMINUM DISC 15-K20, LOCATED AT THE INTERSECTION OF LOMAS AND HENDRON ON CURB RETURN AT SW QUADRANT OF INTERSECTION.
ELEVATION 5379.64

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
1	RONALD A. FORSTBAUER SURVEYING COMPANY	11/96

ENGINEERS SEAL

REVISIONS

NO.	DATE	REMARKS	BY

DESIGN
DESIGNED BY SEC DATE 08/99
DRAWN BY SEC DATE 08/99
CHECKED BY PJC/JPG DATE 08/99

199533
Smith Engineering Company
A Full Service Engineering Company

CITY OF ALBUQUERQUE
ENVIRONMENTAL HEALTH DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: EASTSIDE FUELING STATION
CANOPY FLOOR AND ROOF PLANS

Design Review Committee: APPROVED FEB 17 2000 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED FEB 17 2000 CITY ENGINEER

JOHN P. GIERSCH NEW MEXICO 14063 REGISTERED PROFESSIONAL ENGINEER 2/2/00

Last Design Update

City Project No. 6241.91
Zone Map No. K-20-Z
Sheet A1.0 Of 12

STRUCTURAL NOTES

GENERAL:

1 DESIGN DATA:
ROOF DEAD LOAD = 10 PSF.
ROOF LIVE LOAD = 20 PSF.
DESIGN WIND SPEED = 80 MPH, EXPOSURE B.

2 SHOP DRAWINGS SHALL BE FURNISHED FOR APPROVAL BEFORE ANY FABRICATION AND ERECTION IS STARTED. GENERAL CONTRACTOR SHALL PRECHECK ALL SHOP DRAWINGS BEFORE SUBMISSION TO THE ENGINEER FOR REVIEW. STRUCTURAL PLANS AND DETAILS SHALL NOT BE REPRODUCED FOR USE AS PART OF THE SHOP DRAWINGS.

3 THE SAFE AND ADEQUATE SHORING OF ALL PARTS OF THE STRUCTURE DURING CONSTRUCTION IS THE CONTRACTOR'S RESPONSIBILITY.

SITE:

1 CANOPY FOOTINGS SHALL REST ON 3'-0" OF STRUCTURAL FILL EXTENDING 3'-0" BEYOND THE EDGES OF THE FOOTINGS. TREE STUMPS AND MATTED ROOTS LARGER THAN 2 INCHES IN DIAMETER SHALL BE REMOVED FROM WITHIN 6 INCHES OF THE SURFACE OF AREAS TO RECEIVE FILL OR WITHIN 18 INCHES OF SUBGRADE IN ROADWAYS OR PARKING AREAS.

2 ALL STRUCTURAL FILL SHALL BE SPREAD IN LAYERS NOT EXCEEDING 8 INCHES, WATERED AS NECESSARY AND COMPACTED. THE MOISTURE CONTENT AT THE TIME OF COMPACTION SHALL BE AT OPTIMUM MOISTURE CONTENT TO 2 PERCENT ABOVE FOR THE NATIVE SOILS AND WITHIN 2 PERCENT OF OPTIMUM FOR THE STRUCTURAL FILL MATERIAL. A DENSITY OF NOT LESS THAN 95 PERCENT OF MAXIMUM DRY DENSITY WITHIN THE CANOPY FOOTINGS SHALL BE OBTAINED FOR THE NATIVE SOILS AND STRUCTURAL FILL. STRUCTURAL FILL, AS WELL AS THE NATIVE SOILS, OUTSIDE THE CANOPY FOOTINGS AND PAVED AREAS, SHALL BE COMPACTED TO 90 PERCENT OF MAXIMUM DRY DENSITY.

3 THE OPTIMUM MOISTURE CONTENT AND MAXIMUM DENSITY OF THE NATIVE SOILS SHALL BE DETERMINED IN ACCORDANCE WITH "ASTM D698" WHILE THE OPTIMUM MOISTURE CONTENT AND MAXIMUM DRY DENSITY OF THE STRUCTURAL FILL, FOR EACH SOIL TYPE USED, SHALL BE DETERMINED IN ACCORDANCE WITH "ASTM D1557".

6 THE STRUCTURAL FILL MATERIAL SHALL CONSIST OF SOILS THAT MEET THE FOLLOWING GRADATION REQUIREMENTS:

SIEVE SIZE (SQUARE OPENINGS)	PERCENT PASSING BY WEIGHT
3 INCH	100
NO. 4	50–100
NO. 200	10–60

THE PLASTICITY INDEX OF THE STRUCTURAL FILL SHALL NOT EXCEED 12. THE RESULTS OF THE INVESTIGATION INDICATE THAT THE NATIVE SOILS SHOULD MEET THE ABOVE REQUIREMENTS, HOWEVER SOME BLENDING MAY BE REQUIRED.

METAL DECK:

1 ROOF DECK: 3", 22 GAUGE, MOMENT OF INERTIA, I = 0.772 IN. 4/FT., WEIGHT = 2.16 LB./FT., Fy = 33.0 KSI, PAINTED, 36" DECK WIDTH WITH NESTABLE SIDE LAPS.

2 FASTENING: #12 TEK SCREWS FASTEN ROOF DECK UNITS TO STEEL SUPPORTING MEMBERS. SCREW DECK WITH FIVE SCREWS PER SUPPORT PER 36" DECK WIDTH. WHEN THE DIRECTION OF THE METAL DECK IS PERPENDICULAR TO A SUPPORTING LEDGER ANGLE, SCREW THE DECK TO THE ANGLES IN THE SAME PATTERN AS SPECIFIED PREVIOUSLY. WHEN THE DIRECTION OF THE DECK IS PARALLEL TO THE SUPPORTING LEDGER ANGLE, PROVIDE SCREWS AT 12" ON CENTER.

3 SIDE LAP CONNECTION: FASTEN DECK SIDE LAPS WITH #12 TEK SELF TAPPING SCREWS AT 24" ON CENTER AT ROOF DECK.

4 ROOF DECK UNITS SHALL HAVE A MINIMUM OF A TWO SPAN CONDITION.

5 ALL JOINTS SHALL BE WATERTIGHT.

6 THE COLOR OF THE ROOF DECK PANELS SHALL BE AS PER THE C.O.A. REQUIREMENTS.

CONCRETE:

1 ALL CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS AS LISTED BELOW:
F'c = 4000 PSI – ALL CAST–IN–PLACE CONCRETE FOR FOOTINGS
F'c = 4000 PSI – BUILDING SLABS–ON–GRADE
F'c = 4000 PSI – EXTERIOR SLABS–ON–GRADE

2 ALL REINFORCING STEEL SHALL BE ASTM A615, GRADE 60, MINIMUM YIELD STRENGTH OF 60 KSI FOR PRIMARY REINFORCING AND ASTM A615, GRADE 40, MINIMUM YIELD STRENGTH OF 40 KSI FOR TIES.

3 ALL HORIZONTAL REINFORCING STEEL IN FOOTINGS OR GRADE BEAMS SHALL BE CONTINUOUS AROUND CORNERS OR HAVE CORNER BARS THE SAME SIZE AND SPACING AS THE HORIZONTAL BARS AND LAP 30 BAR DIAMETERS OR 24" MINIMUM.

4 ALL LAPPED SPLICES IN REINFORCING STEEL SHALL LAP A MINIMUM OF 30 BAR DIAMETERS OR 24" MINIMUM.

5 MINIMUM REINFORCING STEEL COVERAGE SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE:

CONCRETE PLACED AGAINST EARTH	3 IN
CONCRETE EXPOSED TO EARTH OR WEATHER:	
#5 BARS AND SMALLER	1 1/2 IN
TOP COVER IN 4" SLAB	1 1/2 IN

6 PROVIDE STEEL BAR SUPPORTS AND BAR SPACERS IN ACCORDANCE WITH ACI 315. PROVIDE STEEL CHAIRS WITH 22 GAUGE SAND PLATES FOR SUPPORT OF ALL REINFORCING STEEL ABOVE GRADE. NO PLASTIC, WOOD, OR BRICK SUPPORTS WILL BE PERMITTED.

7 ALL REINFORCING STEEL SHALL BE FABRICATED AND PLACED IN ACCORDANCE WITH THE "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" ACI 301, THE ACI STANDARD DETAILING MANUAL, ACI 315 AND THE "MANUAL OF STANDARD PRACTICE" BY CRSI.

8 THE GENERAL CONTRACTOR IS RESPONSIBLE TO SEE THAT ALL REINFORCING STEEL IS PROPERLY ALIGNED AND TIED IN PLACE, AND ALL MECHANICAL AND ELECTRICAL UTILITIES ARE INSTALLED PRIOR TO PLACING CONCRETE. ALL VERTICAL REINFORCING STEEL AND ANCHOR BOLTS SHALL BE ACCURATELY LOCATED AND SECURED IN PLACE SO IT REMAINS IN POSITION DURING THE PLACEMENT OPERATION. THE STICKING OF DOWELS, ANCHOR BOLTS, ETC. INTO WET CONCRETE WILL NOT BE PERMITTED.

9 CONCRETE USED FOR ALL EXTERIOR SIDEWALKS, STAIRS, SLABS, PADS, CURBS, AND GUTTERS SHALL BE AIR–ENTRAINED.

STRUCTURAL STEEL

1 ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NINTH EDITION OF THE AISC "MANUAL OF STEEL CONSTRUCTION–ALLOWABLE STRESS DESIGN".

2 STRUCTURAL AND MISCELLANEOUS STEEL MEMBERS, SHAPES AND CONNECTIONS SHALL BE ASTM A36 PROVIDING A MINIMUM YIELD STRENGTH OF 36 KSI, UNLESS OTHERWISE NOTED.

3 ALL STRUCTURAL STEEL TUBE SHAPES SHALL BE ASTM A500, GRADE B PROVIDING A MINIMUM YIELD STRENGTH OF 46 KSI, UNLESS OTHERWISE NOTED.

4 ALL CONNECTION BOLTS SHALL BE ASTM A325, UNLESS OTHERWISE NOTED. TIGHTEN BY THE "SNUG TIGHT" METHOD.

5 ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS AND SHALL BE IN ACCORDANCE WITH THE LATEST SPECIFICATIONS OF THE AWS AND AISC. ALL WELDS SHALL HAVE A MINIMUM TENSILE STRENGTH OF 70 KSI AND A SHEAR STRENGTH OF 21 KSI.

6 ALL ANCHOR BOLTS SHALL BE ASTM A307, UNLESS NOTED OTHERWISE. PROVIDE NUTS AND WASHERS WITH EACH ANCHOR BOLT.

7 FIELD CONNECTIONS NOT OTHERWISE DETAILED WILL BE MADE WITH 5/8" DIAMETER ASTM A325–N HIGH STRENGTH BEARING TYPE BOLTS AND NUTS.

8 WELD ALL BASE PLATES TO COLUMNS WITH MINIMUM 1/4" CONTINUOUS FILLET WELDS.

PRE–FABRICATED METAL BUILDING:

1 DESIGN DATA:
ROOF LIVE LOAD = 20 PSF.
DESIGN WIND SPEED = 80 MPH, EXPOSURE B.

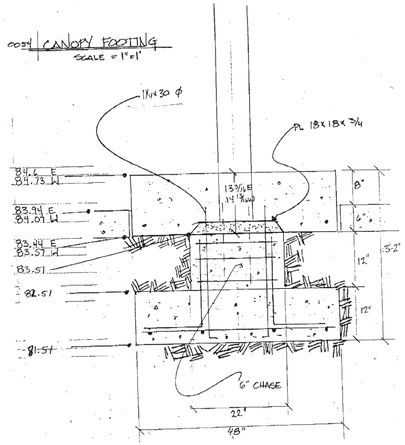
2 SHOP DRAWINGS SHALL BE FURNISHED FOR APPROVAL BEFORE ANY FABRICATION AND ERECTION IS STARTED. GENERAL CONTRACTOR SHALL PRECHECK ALL SHOP DRAWINGS BEFORE SUBMISSION TO THE ENGINEER FOR REVIEW. STRUCTURAL PLANS AND DETAILS SHALL NOT BE REPRODUCED FOR USE AS PART OF THE SHOP DRAWINGS.

3 DESCRIPTION: 10'–0" x 10'–0" EXTERIOR DIMENSIONS, GABLE END ROOF WITH 7'–6" MINIMUM EAVE HEIGHT AND 10'–0" MAXIMUM RIDGE HEIGHT.

4 ROOF AND WALL SHEATHING SHALL BE 24 GAGE MINIMUM THICKNESS WITH A PAINTED FINISH.

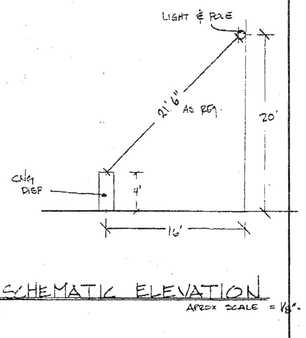
5 ~~EXTERIOR FINISH TO BE PRECOATED FACTORY ENAMEL WALL AND ZINC–ALUMINUM ALLOY COATED STEEL ROOF AS SELECTED BY THE CITY FROM MANUFACTURER'S STANDARD COLORS.~~

ELIMINATE NOTE 5 FOR PRE–FABRICATION METAL BUILDING AND REPLACE WITH THE FOLLOWING: METAL DECK UNITS SHALL BE SHOP PAINTED WITH MANUFACTURER'S STANDARD PAINT, BAKED–ON AND CONFORMING TO ASTM–A–611, GRADE C. PRIOR TO PAINTING, DECK UNITS SHALL BE CHEMICALLY CLEANED AND PHOSPHATE COATED. THE COLOR OF THE DECK UNITS SHALL BE AS PER THE CITY OF ALBUQUERQUE'S REQUIREMENTS. BID ADDENDUM #1



FOOTING FOR
EASTSIDE FUELING
STATION (COA)

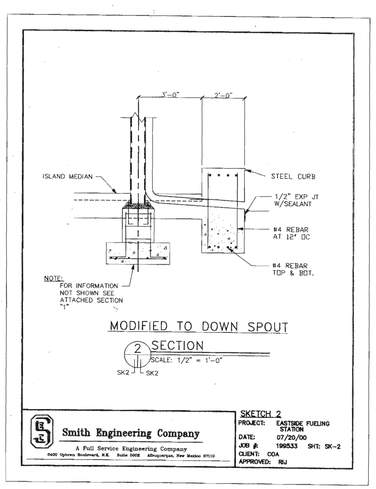
SMITH ENGR.
TONY PINO
884-2576



SCHEMATIC ELEVATION
APPROX SCALE = 1/8"=1'

ABBREVIATION LEGEND

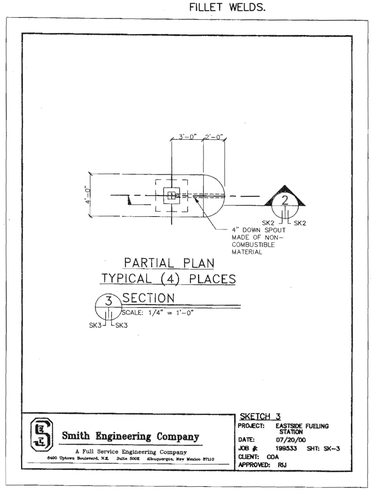
A.B.	ANCHOR BOLT
ALT.	ALTERNATE
ARCH.	ARCHITECTURAL
BOF.	BOTTOM OF FOOTING
BM.	BEAM
B.O.S.	BOTTOM OF STRUCTURAL STEEL
BRDG.	BRIDGING
C/C	CENTER TO CENTER
C.J.	CONSTRUCTION JOINT
CL	CENTER LINE
CLR.	CLEAR
CMU	CONCRETE MASONRY UNIT
COL.	COLUMN
CONC.	CONCRETE
CONT.	CONTINUOUS
DBL.	DOUBLE
DIA.	DIAMETER
DIR.	DIRECTION
DWLS.	DOWELS
E.E.	EACH END
E.F.	EACH FACE
E.J.	EXPANSION JOINT
E.S.	EACH SIDE
E.W.	EACH WAY
EA.	EACH
EL.	ELEVATION
ELEV.	ELEVATION
EXP. A.B.	EXPANSION ANCHOR BOLT
F.D.	FLOOR DRAIN
F.S.	FAR SIDE
FIN. FLR.	FINISH FLOOR
FND.	FOUNDATION
FTG.	FOOTING
GA.	GAUGE
G.B.	GRADE BEAM
G.L.B.	GLU–LAM BEAM
GALV.	GALVANIZED
GR	GRADE
H.A.S.	HEADED ANCHOR STUDS
H.C.M.	HOLLOW CORE MASONRY
H.P.	HIGH POINT
HK.	HOOK
HORZ.	HORIZONTAL
H.S.B.	HIGH STRENGTH BOLTS
I.F.	INSIDE FACE
JST.BRG.	JOIST BEARING
JST.	JOIST
JNT.	JOINT
K.O.B.B.	KNOCK OUT BOND BEAM
L.L.H.	LONG LEG HORIZONTAL
L.L.O.	LONG LEG OUT
L.L.V.	LONG LEG VERTICAL
L.P.	LOW POINT
M.C.J.	MASONRY CONTROL JOINT
M.D.	METAL DECK
MAX.	MAXIMUM
MECH.	MECHANICAL
MIN.	MINIMUM
MISC.	MISCELLANEOUS
N.S.	NEAR SIDE
NTS	NOT TO SCALE
O.C.	ON CENTERS
O.F.	OUTSIDE FACE
OPNG.	OPENING
P/P	PANEL POINT TO PANEL POINT
P/T	POST TENSION
P.C.	PRECAST CONCRETE
PL.	PLATE
REINF.	REINFORCING
S/F	STEP FOOTING ELEVATIONS
S.J.	STEEL JOIST
S.L.O.	SHORT LEG OUT
S.L.V.	SHORT LEG VERTICAL
SCH.	SCHEDULE
T.B.	TIE BEAM
T.C.	TOP OF COLUMN
T.C.C.	TOP OF CONCRETE COLUMN
TDE	TURN DOWN EDGE
T.O.F.	TOP OF FOOTING
T.O.C.B.	TOP OF CONCRETE BEAM
T.O.J.	TOP OF JOIST
T.O.P.	TOP OF PARAPET
T.O.S.	TOP OF STRUCTURAL STEEL
T.O.B.	TOP OF BEAM
T.O.P.	TOP OF PILE
T.O.W.	TOP OF WALL
T.P.C.	TOP OF PILE CAP
T&B	TOP AND BOTTOM
TS	TUBE STEEL
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VERT.	VERTICAL
W/	WITH
W/O	WITHOUT
W.P.	WORKING POINT
WT.	WEIGHT
WWF	WELDED WIRE FABRIC



MODIFIED TO DOWN SPOUT
2 SECTION
SCALE: 1/2" = 1'-0"
SK2 SK2

Smith Engineering Company
A Full Service Engineering Company
8400 Uptown Boulevard, N.E. Suite 500B Albuquerque, New Mexico 87110

SKETCH 2
PROJECT: EASTSIDE FUELING STATION
DATE: 07/20/00
JOB #: 199533 SHT: SK-2
CLIENT: COA
APPROVED: RSJ



PARTIAL PLAN
TYPICAL (4) PLACES
3 SECTION
SCALE: 1/4" = 1'-0"
SK3 SK3

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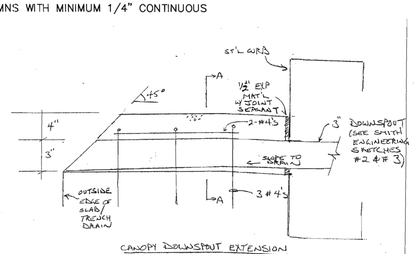
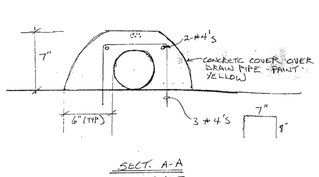
8400 Uptown Boulevard, N.E. Suite 500B Albuquerque, New Mexico 87110

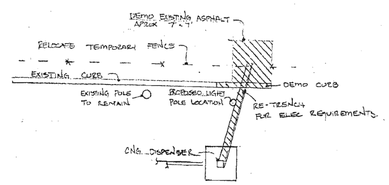
SKETCH 3
PROJECT: EASTSIDE FUELING STATION
DATE: 07/20/00
JOB #: 199533 SHT: SK-3
CLIENT: COA
APPROVED: RSJ



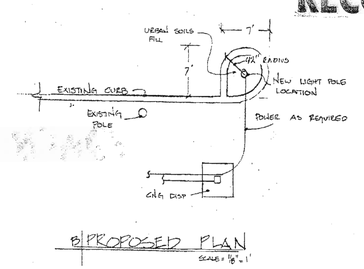
CANOPY DOWNSPOUT EXTENSION
NOT TO SCALE



SECT. A-A
NOT TO SCALE



A DEMO PLAN
SCALE = 1/8"=1'



B PROPOSED PLAN
SCALE = 1/8"=1'

RECORD DRAWINGS

JOHN P. GIERSCH
NEW MEXICO
14063
REGISTERED PROFESSIONAL ENGINEER

AS BUILT INFORMATION
CONTRACTOR ESA CONSTRUCTION INC. DATE 23AUG01
WORK STAKED BY ESA CONS. INC. DATE 23AUG01
ACCEPTANCE BY CLIENT DATE 23AUG01
VERIFICATION BY BERNCHELL C.O.A. DATE 23AUG01
DRAWINGS REVIEWED BY J. ALLEN BOLINGER DATE 29SEP01
DRAWINGS CORRECTED BY ESA CONS. INC.
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
CITY OF ALBUQUERQUE ALUMINUM DISC 15–K20, LOCATED AT THE INTERSECTION OF LOMAS AND HENDRON ON CURB RETURN AT SW QUADRANT OF INTERSECTION.
ELEVATION 5379.64

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
1	RONALD A. FORSTBAUER SURVEYING COMPANY	11/96

ENGINEERS SEAL

NO.	DATE	REMARKS / REVISIONS	BY
		DESIGN	
		DESIGNED BY SEC DATE 08/99	
		DRAWN BY SEC DATE 08/99	
		CHECKED BY PJC/JPG DATE 08/99	

199533
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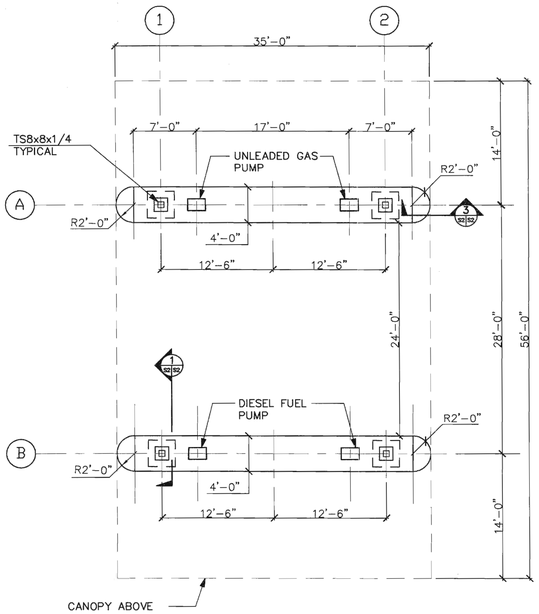
A Full Service Engineering Company
8400 Uptown Boulevard, N.E. Suite 500B Albuquerque, New Mexico 87110

CITY OF ALBUQUERQUE
ENVIRONMENTAL HEALTH DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE:
EASTSIDE FUELING STATION
STRUCTURAL NOTES AND ABBREVATIONS

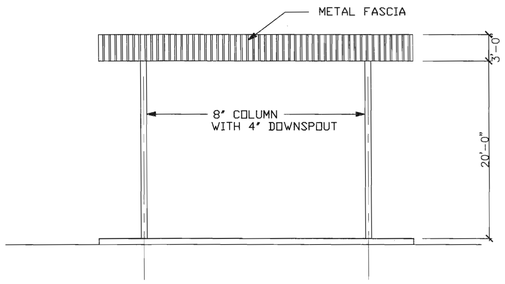
Design Review Committee: APPROVED FEB 17 2000 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED FEB 17 2000 CITY ENGINEER
Last Design Update: No. / Day / Yr. | No. / Day / Yr.

City Project No. 624191 | Zone Map No. K-20-Z | Sheet S1.0 Of 12



CANOPY FOUNDATION PLAN

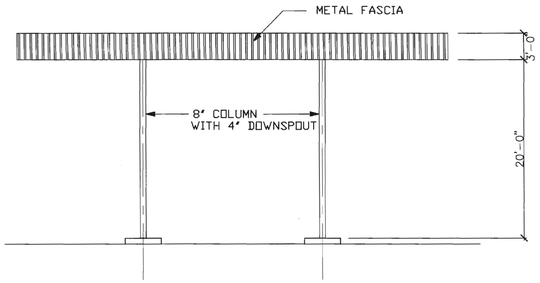
SCALE: 1/8" = 1'-0"



NORTH ELEVATION

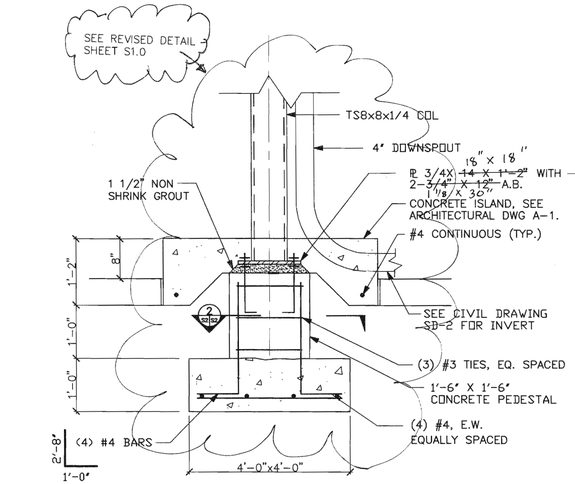
SCALE: 1/8" = 1'-0"

NOTE: SOUTH ELEV IDENTICAL - OPPOSITE HAND



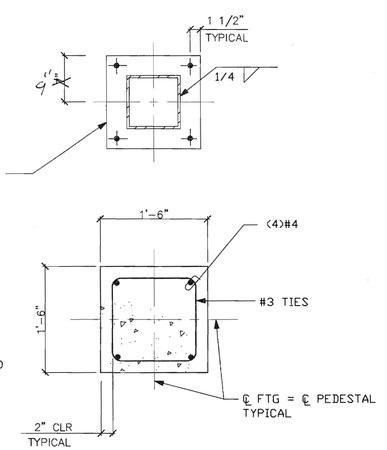
WEST ELEVATION

SCALE: 1/8" = 1'-0"



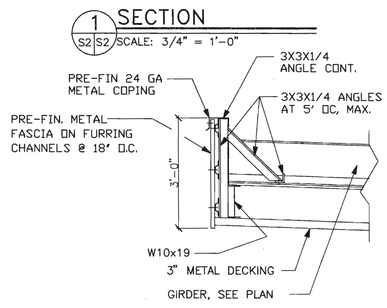
NOTE:

CANOPY FTGS SHALL BE BUILT FOR BOTH ALTERNATIVES SO THAT CANOPY CAN BE BUILT IN THE FUTURE WITHOUT DISTURBING THE CONCRETE ISLAND OR PAVEMENT, A.B. CAN BE IMBEDDED WITH EPOXY IN THE FUTURE



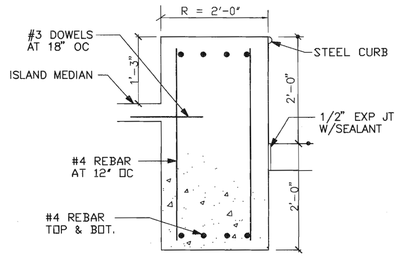
2 SECTION

S2 | S2 SCALE: 1" = 1'-0"



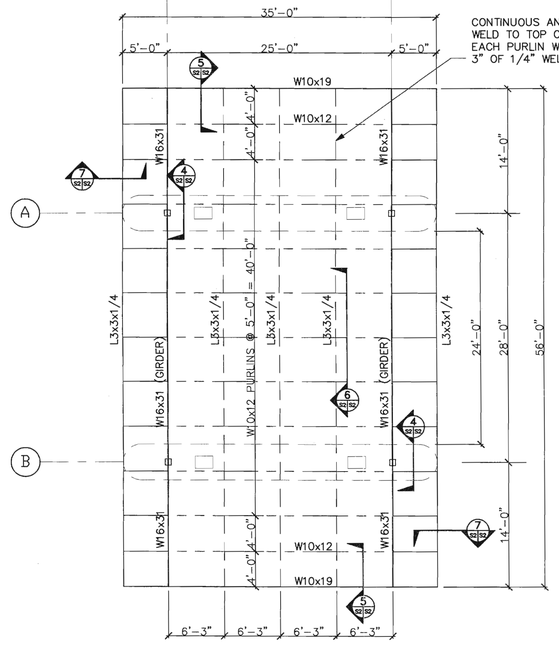
1 SECTION

S2 | S2 SCALE: 3/4" = 1'-0"



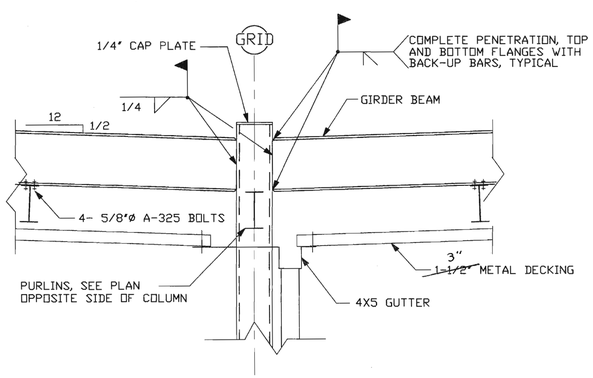
3 END CURB SECTION

S2 | S2 SCALE: 3/4" = 1'-0"



CANOPY FRAMING PLAN

SCALE: 1/8" = 1'-0"



4 SECTION

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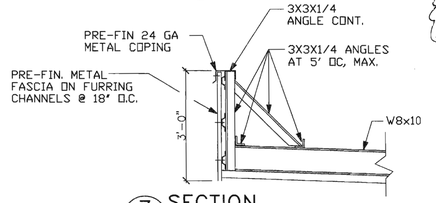
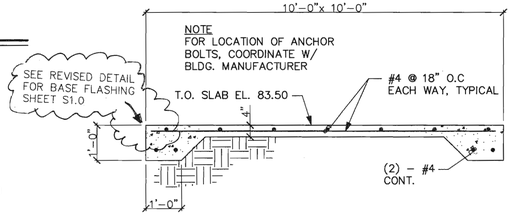


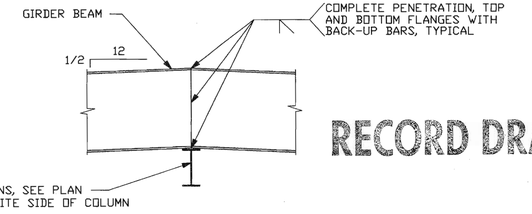
5 SECTION

S2 | S2 SCALE: 1/2" = 1'-0"



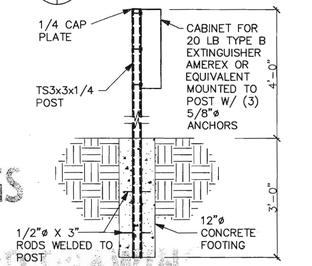
8 SLAB @ PRE-ENGINEERED BLDG.

S2 | S2 SCALE: 3/4" = 1'-0"



6 SECTION

S2 | S2 SCALE: 3/4" = 1'-0"



7 SECTION

S2 | S2 SCALE: 1/2" = 1'-0"

9 POST @ FIRE EXTINGUISHER

S2 | S2 SCALE: 1/2" = 1'-0"

RECORD DRAWINGS

JOHN P. GIERSCH NEW MEXICO 14063 REGISTERED PROFESSIONAL ENGINEER 2/7/00

AS BUILT INFORMATION
CONTRACTOR ESA CONSTRUCTION INC. DATE 2JAN001
STAKED BY ESA CONS. INC. DATE 2JAN001
INSPECTORS ACCEPTANCE BY PEP DATE 2JAN001
FIELD CLIFF MONCELLI C.O.A. DATE 2JAN001
VERIFICATION BY PEP/MONCELLI C.O.A. DATE 2JAN001
AS-BUILT REVIEWED BY SMITH ENGR DATE 2SEP01
CORRECTED BY SMITH ENGR DATE 2SEP01
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

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CITY OF ALBUQUERQUE ALUMINUM DISC 15-K20, LOCATED AT THE INTERSECTION OF LOMAS AND HENDRON ON CURB RETURN AT SW QUADRANT OF INTERSECTION.
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NO.	BY	DATE
1	RONALD A. FORSTBAUER, SURVEYING COMPANY	11/96

ENGINEERS SEAL

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
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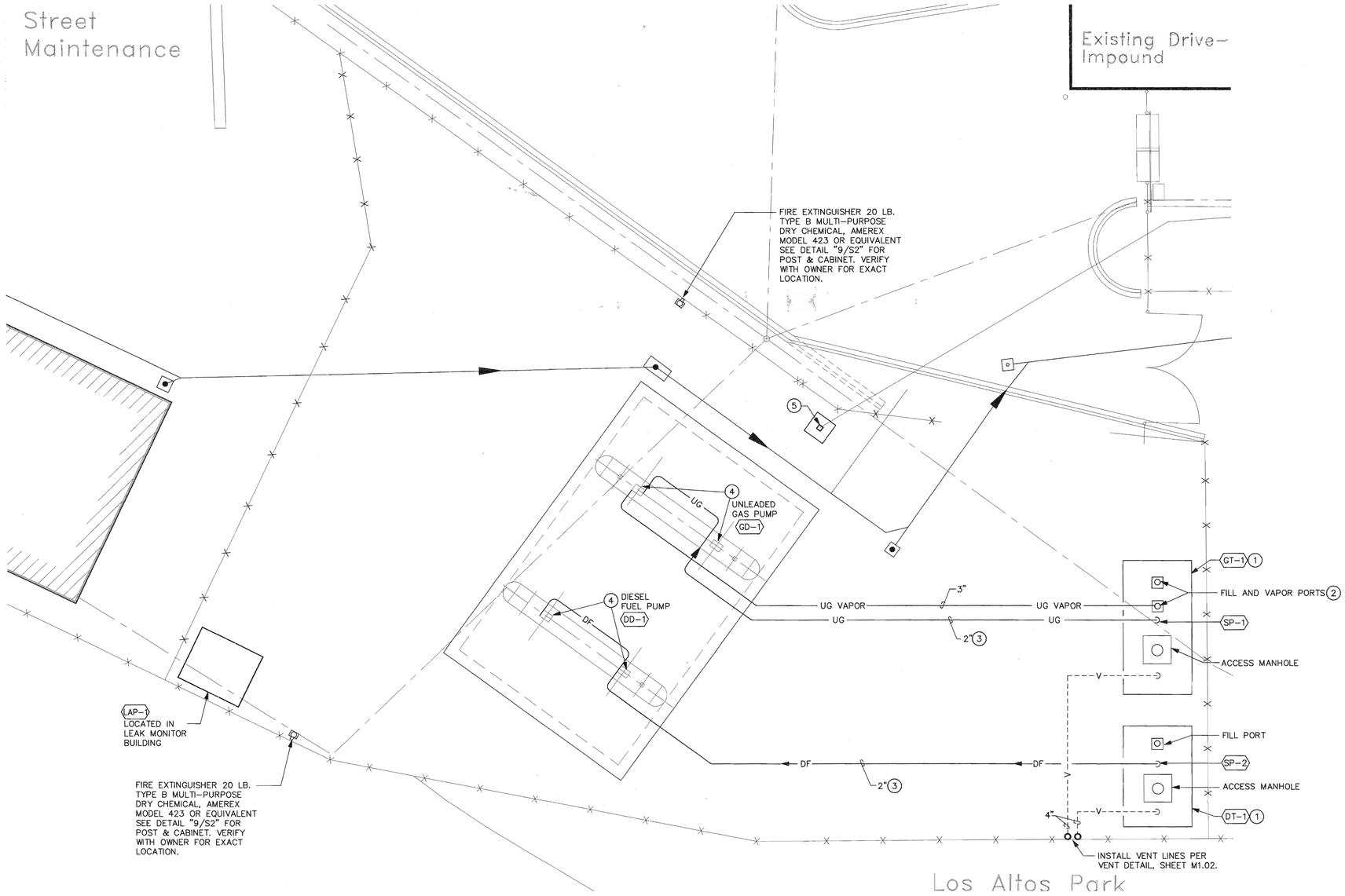
A Full Service Engineering Company
6400 Uptown Boulevard, N.E. Suite 500E Albuquerque, New Mexico 87110

CITY OF ALBUQUERQUE
ENVIRONMENTAL HEALTH DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: EASTSIDE FUELING STATION
CANOPY FOUNDATION + FRAMING PLANS

Design Review Committee: APPROVED FEB 17 2000 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED FEB 17 2000 CITY ENGINEER
Last Design Update: No. / Day / Yr. / No. / Day / Yr.

City Project No. 624191 | Zone Map No. K-20-Z | Sheet S2.0 Of 12



KEYED NOTES

1. INSTALL FUEL STORAGE TANKS ACCORDING TO DETAIL ON SHEET M1.02. INSTALLATION SHALL CONFORM TO ALL NEW MEXICO ENVIRONMENTAL IMPROVEMENT DIVISION UNDERGROUND STORAGE TANK DIVISION REQUIREMENTS, INCLUDING LEAK DETECTION AND TANK TESTING.
2. INSTALL STAGE II AND STAGE I VAPOR RECOVERY PER ALL REQUIREMENTS OF API AND EPA RECOMMENDED PRACTICES.
3. ALL FUEL AND OTHER PIPING AS NOTED SHALL BE INSTALLED IN APPROVED DOUBLE CONTAINMENT PIPING ACCORDING TO THE SPECIFICATIONS.
4. INSTALL GAS AND DIESEL PUMPS ACCORDING TO THE MANUFACTURER'S DETAILS AND RECOMMENDATIONS, INCLUDING SHEAR VALVES, FLEXIBLE CONNECTIONS, DISPENSER PANS, AND SPILL CONTAINMENT.
5. INSTALL OWNER FURNISHED CNG DISPENSER (STORED ON SITE). CONNECT TO EXISTING GAS LINE.

SYMBOL LEGEND

SYMBOL	DESCRIPTION
— UG —	UNLEADED GAS LINE
— DF —	DIESEL FUEL LINE
—UG VAPOR—	UNLEADED GAS VAPOR RECOVERY
---- V ----	VENT LINE

NOTE: CAREFULLY COORDINATE WORK WITH THE CITY OF ALBUQUERQUE AND FIELD VERIFY ALL NEW AND EXISTING CONDITIONS BEFORE INSTALLATION.

MECHANICAL SITE PLAN
SCALE: 1" = 10'-0"
0' 10' 20'

RECORD DRAWINGS

REGISTERED PROFESSIONAL ENGINEER STATE OF NEW MEXICO NO. 13658 DAVID C. GRAHAM 2/7/00

10/99 7/00 4/99 25/99 13/99 20/99 9/99 2/99 ATE

AS BUILT INFORMATION
CONTRACTOR ESA CONSTRUCTION INC. DATE 23AUG01
WORK STAKED BY ESA CONS. INC. DATE 23AUG01
INSPECTION & SURVEYANCE BY PIERONCELLI C.O.A. DATE 23AUG01
FIELD VERIFICATION BY CLIFF PIERONCELLI C.O.A. DATE 23AUG01
DRAWINGS CORRECTED BY J. ALLEN BRUNOT DATE 24SEP01
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
CITY OF ALBUQUERQUE ALUMINUM DISC 15-K20, LOCATED AT THE INTERSECTION OF LOMAS AND HENDRON ON CURB RETURN AT SW QUADRANT OF INTERSECTION.
ELEVATION 5379.64

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
1	RONALD A. FORSTBAUER	11/96
	SURVEYING COMPANY	

ENGINEERS SEAL

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY SEC	DATE 2/00
		DRAWN BY SEC	DATE 2/00
		CHECKED BY SEC	DATE 2/00

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CITY OF ALBUQUERQUE
ENVIRONMENTAL HEALTH DEPARTMENT
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TITLE: EASTSIDE FUELING STATION
MECHANICAL SITE PLAN

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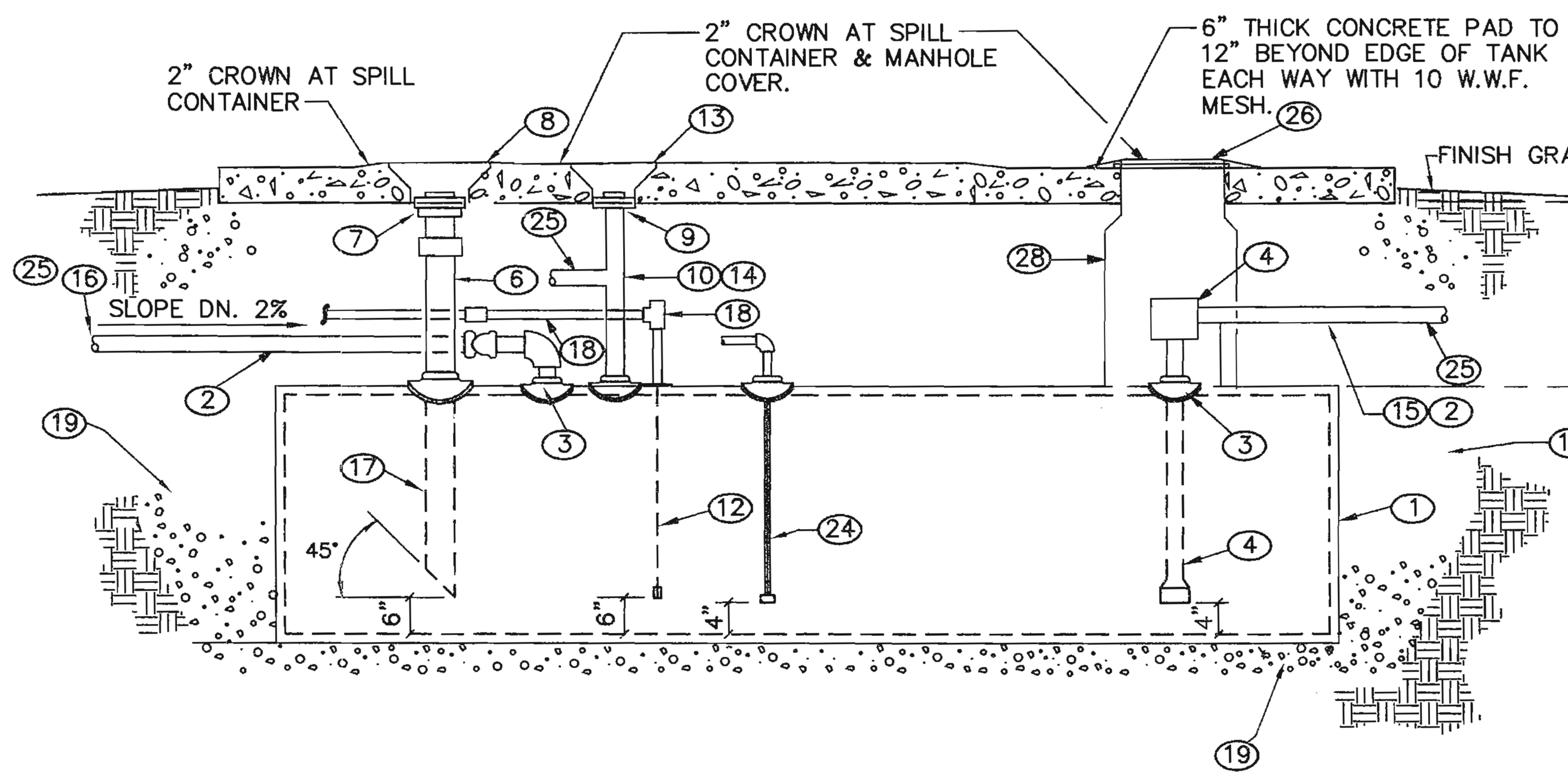
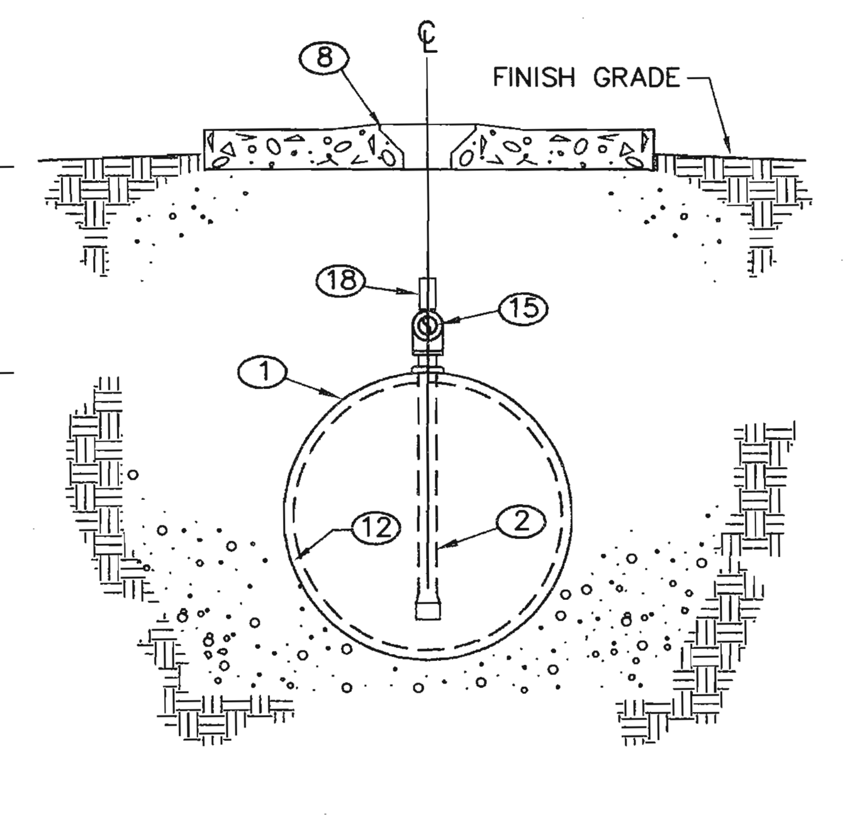
City Project No. 6241.91 | Zone Map No. K-20 -Z | Sheet M1.01 Of 12

FUEL TANK'S KEYED NOTES:

1. GAS STORAGE TANK, (GT-1) OR DIESEL STORAGE TANK, (DT-1) SEE EQUIPMENT SCHEDULE FOR DESCRIPTION AND PLAN FOR LOCATION.
2. PRODUCT PIPING SHALL BE RETRACTABLE DOUBLE-WALL FLEXIBLE PIPING ACCEPTABLE FOR DIESEL OR GAS SYSTEMS. (OPW "PISCES" OR APPROVED EQUAL) STAGE II VAPOR RECOVERY LINES SHALL BE SINGLE-WALLED FIBERGLASS.
3. STRIKER PLATE.
4. SUBMERSIBLE PUMP WITH LEAK DETECTOR SPECIFIED (SP-1) OR (SP-2).
5. NOT USED.
6. 4" FILL PIPE.
7. CAP OPW 634-TT.
8. SPILL CONTAINER, OPW MODEL OPW-101BG-2115 15 GAL. FOR FILL PORT.
9. VAPOR ADAPTER 3" X 4" OPW 1611 AND VAPOR CAP OPW 1711-7 (FOR UNLEADED GAS TANK ONLY).
10. 4" VAPOR RECOVERY PIPE WITH FLOAT VALVE, EXTRACTOR RISER AND CAP FOR STAGE II VAPOR RECOVERY SYSTEM.
11. NOT USED.
12. FUEL LEAK SENSOR IN MANUFACTURE PROVIDED TANK WALL CAVITY TO BE CONNECTED TO VEEDER ROOT ATG SYSTEM.
13. SPILL CONTAINER MODEL 101BG-2105 (VAPOR RECOVERY FOR UNLEADED GAS TANK ONLY).
14. STAGE II VAPOR RECOVERY NOT REQUIRED FOR DIESEL TANK INSTALLATION.
15. SUPPLY LINE, SIZE AS NOTED ON PLANS.
16. 4" VENT LINE, SEE PLANS FOR CONTINUATION.
17. 4" FILL TUBE OPW 61 TNG.
18. ELECTRICAL CONDUIT TO ALARM PANEL, (LAP-1)
19. APPROVED BACKFILL FOR TANK.
20. VAPOR VENT, OPW 23 FOR DIESEL, PRESSURE VACUUM VENT FOR GASOLINE (OPW 523). LINE SIZE.
21. TREATED POST 6" SQUARE x LENGTH AS REQUIRED OR UP ON WALL. SEE PLANS FOR LOCATION.
22. 4" VENT LINE.
23. UNISTRUT BRACKETS AND GASKETED PIPE CLAMPS.
24. FUEL SENSOR FROM FUEL LEVEL INDICATOR (LAP-1)
25. SEE SITE PLAN FOR CONTINUATION OF PIPING.
26. 30" DIA. CAST IRON RING W/ GASKETED COVER MED. DUTY.
27. NOT USED.
28. TOTAL CONTAINMENT SYSTEMS, ACCESS MANHOLE WITH EXTENSION AS REQUIRED, 36" DIA. MIN.



SIDE VIEW

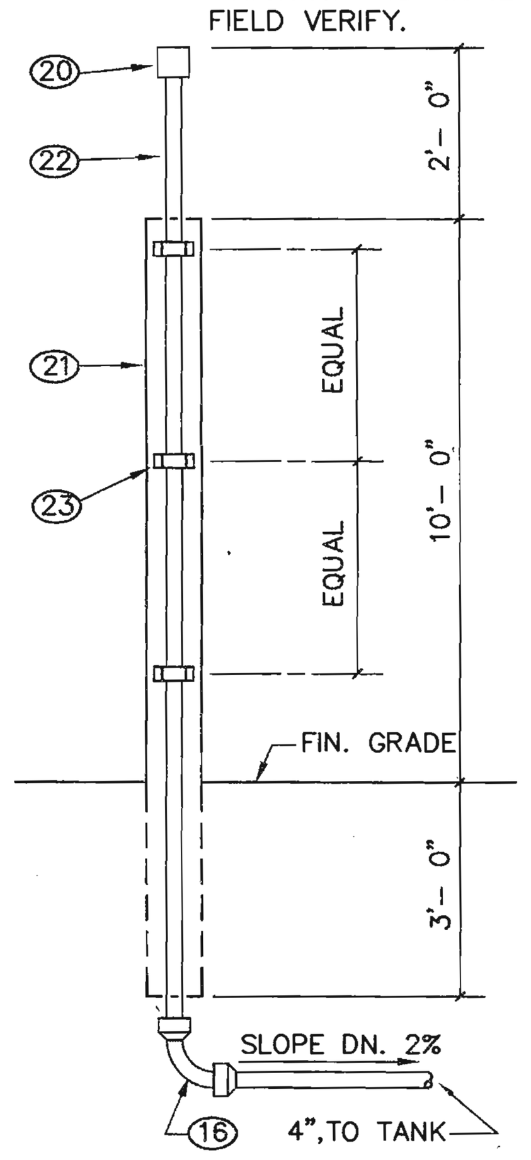


END VIEW

NOTE:
SEE FUELING AND LUBRICATION EQUIPMENT SCHEDULE ON THIS SHEET FOR DESCRIPTION OF EQUIPMENT.

UNDERGROUND STORAGE TANK DETAILS

SCALE: NONE



VENT DETAIL

SCALE: NONE

FUELING AND LUBRICATION EQUIPMENT SCHEDULE

SYMBOL	DESCRIPTION
	SEE REVISION BELOW
GT-1	~~GASOLINE STORAGE TANK: 20,000 GALLON GASOLINE STORAGE TANKS WITH UNDERWRITER'S LABEL 58. UNIT SHALL BE STEEL (360° WRAP) "STI-P3" TYPE II EXTERIOR WITH INTERSTITIAL SPACE AND STEEL INTERTANK. CONSTRUCTION WITH FILL PIPE, VENT, FILL CAP, BUSHINGS AND SUBMERSIBLE PUMP OUTLET (ALL OPENINGS SHALL BE 4" SIZE) AND OTHER ACCESSORIES OR OPENINGS FOR A COMPLETE OPERATING SYSTEM AS RECOMMENDED BY MANUFACTURER INCLUDING SACRIFICIAL ANODES PER MANUFACTURER'S RECOMMENDATIONS. UNIT SHALL BE MANUFACTURED BY KOHLHAAS CORPORATION, EIDSON STEEL PRODUCTS, OR OTHER APPROVED MFR. APPROXIMATE DIMENSION 24' LONG X 12' DIAMETER.~~
DT-1	~~DIESEL STORAGE TANK: 15,000 GALLON DIESEL STORAGE TANK WITH UNDERWRITER'S LABEL 58. UNIT SHALL BE STEEL (360° WRAP) "STI-P3" TYPE II EXTERIOR WITH INTERSTITIAL SPACE AND STEEL INNERTANK CONSTRUCTION WITH FILL PIPE, VENT FILL CAP, BUSHINGS, AND SUBMERSIBLE PUMP OUTLET (ALL OPENINGS SHALL BE 4" SIZE) AND OTHER ACCESSORIES OR OPENINGS FOR A COMPLETE OPERATING SYSTEM AS RECOMMENDED BY MANUFACTURER INCLUDING SACRIFICIAL ANODES PER MANUFACTURER'S RECOMMENDATIONS. UNIT SHALL BE MANUFACTURED BY KOHLHAAS CORPORATION, EIDSON STEEL PRODUCTS, OR OTHER APPROVED MFR. APPROXIMATE DIMENSION 18' LONG X 12' DIAMETER.~~
GD-1	GASOLINE DISPENSER: UNIT SHALL TOKHEIM OR GASBOY 9152AXTW1 OR APPROVED EQUAL, SINGLE PRODUCT, TWIN NOZZLE, HIGH SPEED MODEL. UNIT SHALL BE COMPLETE WITH U.L. LABEL AND ALL ACCESSORIES REQUIRED FOR A COMPLETE OPERATING UNIT. PROVIDE WITH HIGH-HOSE RETRIEVER, 12' HOSE, RECONNECTABLE OPW 66 REC BREAKAWAY CONNECTION, SWIVELS, AUTOMATIC NOZZLES AND PULSER COMPATIBLE WITH E.J. WARD FUEL MANAGEMENT SYSTEM. PROVIDE LEAK BASIN, SHEAR VALVE, AND FLEX HOSE UNDER DISPENSER.
DD-1	DIESEL DISPENSER: UNIT SHALL BE TOKHEIM OR GASBOY 9153AXTW1 OR APPROVED EQUAL, SINGLE PRODUCT, TWIN NOZZLE, HIGH SPEED MODEL. UNIT SHALL BE COMPLETE WITH U.L. LABEL AND ALL ACCESSORIES REQUIRED FOR A COMPLETE OPERATING UNIT. PROVIDE WITH HIGH-HOSE RETRIEVER, 12' HOSE, RECONNECTABLE OPW 66 REC BREAKAWAY CONNECTION, SWIVELS, AUTOMATIC NOZZLES AND PULSER COMPATIBLE WITH E.J. WARD FUEL MANAGEMENT SYSTEM. PROVIDE LEAK BASIN, SHEAR VALVE, AND FLEX HOSE UNDER DISPENSER.
LAP-1	LEAK ALARM PANEL & FUEL LEVEL INDICATOR: VEEDER-ROOT TLS-350, CONTINUOUS STATISTICAL LEAK DETECTION SYSTEM, 8 CHANNEL, 4 LIQUID SENSORS AMS INSTALL 1 LIQUID FOR EACH TANK INTERSTITIAL SPACE, 1 LIQUID FOR EACH DOUBLE CONTAINMENT PIPING SYSTEM. FURNISH 8473 LEVEL INDICATOR AND VOLUMETRIC LEAK TEST PROBE, OVER FILL ALARM, PRINTER MODULE, PRESSURIZED LINE LEAK, INTERFACE MODULE AND CONTROLLER MODULE, RS-232 PORT AND INTERNAL MODEM, SITE FAX AND REMOTE RESET. MONITOR OVERALL DIMENSIONS 8-1/4" HIGH X 6-1/4" DEEP, WITH ALARM HORN, RELAYS, ALARM AND MALFUNCTION INDICATOR LIGHTS, AND SENSOR INPUTS. 115V-1PH-60CY WITH RESPONSE TIME OF 30 SECOND MAX. KEY LOCK HINGED COVER.
SP-1	SUBMERSIBLE PUMP: RED JACKET MODEL 3/4 HP, 10 GPM AT 85 TOTAL HEAD (2 DISPENSERS OPERATING) CONTINUOUS DUTY, 208 VOLT/1 PHASE FOR UNLEADED GAS WITH VEEDER ROOT ELECTRONIC PRESSURIZED LINE LEAK DETECTOR CAPABLE OF .1 GPH PRECISION AND 3.0 GPH GROSS TESTING.
SP-2	SUBMERSIBLE PUMP: SAME AS ABOVE EXCEPT FOR DIESEL DUTY AND 1-1/2 HP CAPABLE OF 22 GPM AT 80 TOTAL HEAD (2 DISPENSER OPERATING).

REVISION

GT-1	GASOLINE STORAGE TANK: 20,000 GALLON GASOLINE STORAGE TANKS WITH UNDERWRITER'S LABEL 58. UNIT SHALL BE ACT-100 DOUBLE-WALLED CONSTRUCTION WITH FILL PIPE, VENT, FILL CAP, BUSHINGS AND SUBMERSIBLE PUMP OUTLET (ALL OPENINGS SHALL BE 4" SIZE) AND OTHER ACCESSORIES OR OPENINGS FOR A COMPLETE OPERATING SYSTEM AS RECOMMENDED BY MANUFACTURER. APPROXIMATE DIMENSION 24' LONG x 12' DIAMETER.
DT-1	DIESEL STORAGE TANK: 15,000 GALLON DIESEL STORAGE TANK WITH UNDERWRITER'S LABEL 58. UNIT SHALL BE ACT-100 DOUBLE-WALLED CONSTRUCTION WITH FILL PIPE, VENT, FILL CAP, BUSHINGS, AND SUBMERSIBLE PUMP OUTLET (ALL OPENINGS SHALL BE 4" SIZE) AND OTHER ACCESSORIES OR OPENINGS FOR A COMPLETE OPERATING SYSTEM AS RECOMMENDED BY MANUFACTURER. APPROXIMATE DIMENSION 18' LONG x 12' DIAMETER.

GENERAL NOTES:

1. THE CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL PIPING WITH THE OWNER PRIOR TO INSTALLATION. LAYOUT IS SCHEMATIC ONLY.
2. THE INSTALLATION OF THE UNDERGROUND TANKS SHALL COMPLY WITH ALL UNDERGROUND STORAGE TANK REGULATIONS OF THE NEW MEXICO ENVIRONMENTAL DEPARTMENT, THE UNDERGROUND STORAGE TANK BUREAU, AND ALL UNDERGROUND STORAGE TANK REGULATIONS OF THE U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA) AS ADOPTED BY THE STATE OF NEW MEXICO.
3. THE CONTRACTOR SHALL NOTIFY THE FIELD ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK, IN ORDER THAT THE FIELD ENGINEER MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF A MONUMENT IS DISTURBED. REPLACEMENT SHALL BE DONE ONLY BY THE FIELD ENGINEER. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATION OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4 OF SPECIFICATIONS.
4. THE SPECIFICATIONS USED FOR THIS PROJECT ARE THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1994 EDITION, UPDATE NO. 6.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING OF ALL DEBRIS, INCLUDING, BUT NOT LIMITED TO HAZARDOUS WASTE AT DISPOSAL SITES APPROVED BY GOVERNMENTAL AGENCIES REGULATING THE DISPOSAL OF SUCH MATERIALS.
6. THE CONTRACTOR IS TO EXERCISE CARE TO AVOID DISTURBING ANY EXISTING UNDERGROUND UTILITIES. IT SHALL BE HIS RESPONSIBILITY TO COORDINATE WITH THE UTILITY COMPANIES IN ORDER TO PREVENT ANY SERVICE DISRUPTION. SEE SECTION 18 "UTILITIES", CITY OF ALBUQUERQUE, STANDARD SPECIFICATIONS FOR CONTRACTOR REQUIREMENTS.
7. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL CONFLICTING UTILITIES. SHOULD A CONFLICT EXIST BETWEEN THE FIELD INFORMATION AND THE PLANS, THE CONTRACTOR SHALL NOTIFY THE CITY FIELD ENGINEER SO THE CONFLICT CAN BE RESOLVED WITH MINIMUM AMOUNT OF DELAY.
8. THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION ACTIVITIES WITH ALL OTHER CONTRACTORS AND UTILITY COMPANIES WORKING IN THE SAME AREA. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE THEIR ACTIVITIES TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED WORK. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCE CAUSED BY UTILITY COMPANY WORK CREWS. A CONTRACT EXTENSION MAY BE ALLOWED AS DELINEATED IN CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS.
9. ALL UTILITY LINES WHICH ARE NOT SPECIFICALLY DESIGNATED TO BE REMOVED AND REPLACED ON THE PLANS, SHALL BE MAINTAINED IN SERVICE. SHORING, SHEETING AND OTHER MEANS OF SUPPORT SHALL BE EMPLOYED BY THE CONTRACTOR TO PREVENT DAMAGE OR LOSS OF THESE EXISTING UTILITIES. BEAM AND CABLE OR OTHER ADEQUATE SUPPORTS SHALL BE USED FOR TEMPORARY SUPPORT OF ALL UTILITY LINES WHICH CROSS THE TRENCH. ANY DAMAGE TO EXISTING UTILITIES SHALL PROMPTLY BE REPAIRED AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY SIGNIFICANT DEVIATION OF EXPOSED UTILITIES FROM THE LOCATIONS SHOWN ON THE PLANS SO THAT CONFLICTS CAN BE RESOLVED IN A TIMELY MANNER.
10. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO EXISTING PAVING OR CURB AND GUTTER DURING CONSTRUCTION, APART FROM THOSE SECTIONS INDICATED FOR REMOVAL ON THE PLANS, AND SHALL REPAIR OR REPLACE SAME AT HIS OWN EXPENSE.

RECORD DRAWINGS

AS BUILT INFORMATION
CONTRACTOR ESA CONSTRUCTION INC.
WORK STAKED BY ESA CONS. INC. DATE 23AUG01
INSPECTOR'S ACCEPTANCE BY ... DATE 23AUG01
FIELD VERIFICATION BY ... C.O.A. DATE 23AUG01
DRAWINGS CORRECTED BY ... DATE 25SEP01

MICRO-FILM INFORMATION
RECORDED BY | DATE | NO.

BENCH MARKS
CITY OF ALBUQUERQUE ALUMINUM DISC 15-K20, LOCATED AT THE INTERSECTION OF LOMAS AND HENDRON ON CURB RETURN AT SW QUADRANT OF INTERSECTION.
ELEVATION 5379.64

SURVEY INFORMATION

FIELD NOTES		
NO.	BY	DATE
1	RONALD A. FORSTBAUER SURVEYING COMPANY	11/96

ENGINEERS SEAL

REVISIONS

NO.	DATE	REMARKS	BY

DESIGN
DESIGNED BY SEC DATE 2/00
DRAWN BY SEC DATE 2/00
CHECKED BY SEC DATE 2/00

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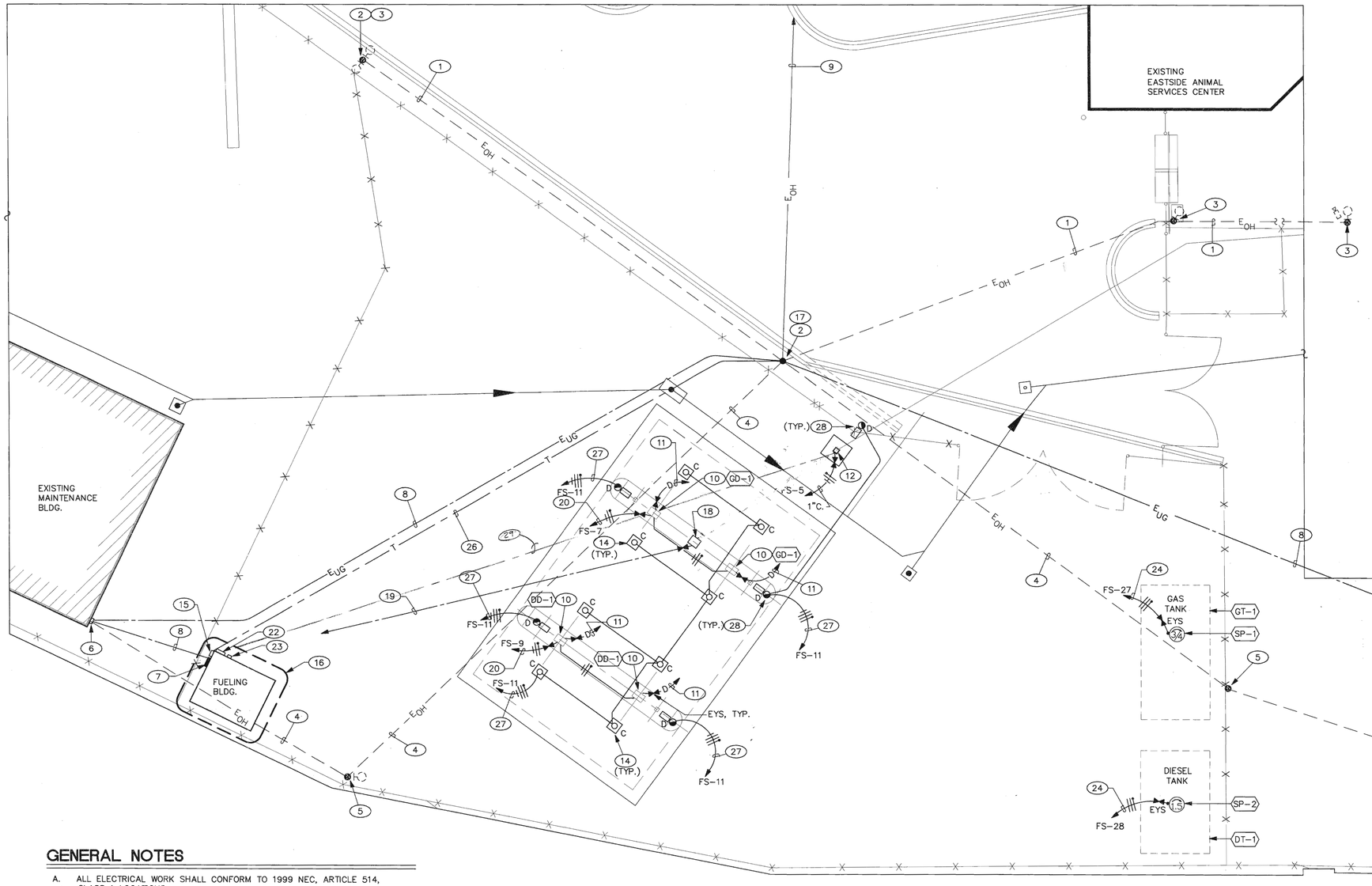
CITY OF ALBUQUERQUE
ENVIRONMENTAL HEALTH DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: EASTSIDE FUELING STATION
MECHANICAL DETAILS

REGISTERED PROFESSIONAL ENGINEER, STATE OF NEW MEXICO, No. 13658, DAVID C. GRAHAM

Design Review Committee: APPROVED FEB 17 2000 — DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED FEB 17 2000 — CITY ENGINEER
Last Design Update

City Project No. 6241.91
Zone Map No. K-20-Z
Sheet M1.02 Of 12



KEYED NOTES

1. EXISTING OVERHEAD POWER LINE (SECONDARY) TO REMAIN.
2. EXISTING POWER POLE TO REMAIN.
3. EXISTING LIGHT POLE AND LIGHT(S) TO REMAIN.
4. EXISTING OVERHEAD POWER LINE TO BE REMOVED COMPLETE.
5. EXISTING UTILITY–OWNED POWER POLE TO BE REMOVED COMPLETE.
6. EXISTING BUILDING SERVICE DISCONNECT TO REMAIN.
7. EXTERIOR PANEL WITH MAIN CIRCUIT BREAKER FOR NEW FUELING BUILDING. REFER TO POWER RISER DIAGRAM.
8. NEW UNDERGROUND SERVICE. REFER TO POWER RISER DIAGRAM.
9. EXISTING LINE (TO BE UPGRADED TO 4/0 BY PNM TO REDUCE VOLTAGE DROP) EXTENDS TO 3–PHASE POLE MOUNTED TRANSFORMER BANK.
10. COMPUTERIZED FUEL DISPENSER. CONFIRM WIRING REQUIREMENTS WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
11. EXTEND TWO CONDUITS TO E. J. WARD CARD READER. REFER TO FUEL ISLAND DETAILS.
12. COMPRESSED NATURAL GAS DISPENSER, RELOCATED TO THIS SITE BY PNM GAS CO.
13. E. J. WARD HEAD–END CONTROL UNIT.
14. CANOPY LIGHTS SHALL BE BID AS AN ALTERNATE.
15. TELEPHONE CABINET – 24"x24"x6.5". PROVIDE 3/4" PLYWOOD BACKBOARD AND #6 GROUND PER US WEST REQUIREMENTS.
16. REFER TO ENLARGED ELECTRICAL PLAN FOR ADDITIONAL WORK REQUIRED.
17. REMOVE TWO EXISTING OVERHEAD SERVICE FEEDERS AS INDICATED AND REPLACE WITH TWO UNDERGROUND SERVICE FEEDERS, SEE POWER RISER DIAGRAM.
18. E. J. WARD CARD READER FUEL CONTROL TERMINAL (FCT). REFER TO FCT DETAILS.
19. EXTEND ~~TWO~~ CONDUITS AND CABLING TO E. J. WARD HEAD–END UNIT IN FUELING BUILDING. FINAL CONNECTIONS TO BE DONE BY OTHERS. REFER TO FUEL ISLAND DETAILS. 1–1" CONDUIT TO VALVE PANEL WITH 12#14 AWG STRANDED WIRE AND 1#12 GROUND.
20. EXTEND TO EMERGENCY SHUT–OFF CONTACTOR. REFER TO EMERGENCY SHUT–OFF SYSTEM DETAIL.
21. ~~12 #14 STRANDED WIRE WITH 1 #12 GROUND IN 1" CONDUIT. NUMBER EACH OF THE #14 WIRES 1 THROUGH 12 RESPECTIVELY.~~
22. COMPRESSED NATURAL GAS CONTROL PANEL (VALVE PANEL).
23. EMERGENCY SHUT–OFF MUSHROOMHEAD PUSHBUTTON. REFER TO DETAIL.
24. TWO #10 AND ONE #10 GROUND IN 3/4" CONDUIT. EXTEND TO CONTROLS IN FUELING BUILDING.
25. MOTOR STARTER AND ASSOCIATED DISCONNECT SWITCH FOR SUBMERSIBLE PUMPS. REFER TO SUBMERSIBLE PUMP WIRING DIAGRAM.
26. 2" PVC TELEPHONE CONDUIT. EXTEND TO US WEST SERVICE POINT, VERIFY REQUIREMENTS WITH UTILITY.
27. USE #10 WIRING THROUGHOUT ENTIRE RUN.
28. SEE POLE MOUNTING DETAIL.
29. 2–1" CONDUITS. ONE CONDUIT WITH 12#14 AWG. STRANDED WITH AND 1#12 GROUND. ONE CONDUIT IS SPARE, PROVIDE PULL STRING. BOTH CONDUITS AS TO VALVE PANEL.

GENERAL NOTES

A. ALL ELECTRICAL WORK SHALL CONFORM TO 1999 NEC, ARTICLE 514, CLASS 1 LOCATIONS.

B. PROVIDE ALL CONDUIT SEALS, WHETHER SHOWN OR NOT, AS REQUIRED BY CODE. REFER TO DISPENSING UNIT WIRING REQUIREMENT DETAIL.

C. COORDINATE ALL ELECTRICAL SERVICE WORK WITH PNM PRIOR TO BEGINNING ANY WORK (PH. 241–3698).

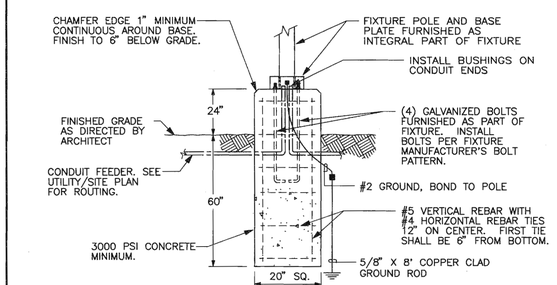
D. ~~CANPOY AND ASSOCIATED TYPE "C" FIXTURES SHALL BE BID AS AN ALTERNATE. IF ALTERNATE IS ACCEPTED, DELETE THE (4) TYPE "D" FIXTURES AT THE CANOPY.~~

D. CANOPY TO BE CONSTRUCTED AS PART OF BASE BID, TYPE "C" FIXTURES SHOULD BE USED.

ELECTRICAL SITE PLAN

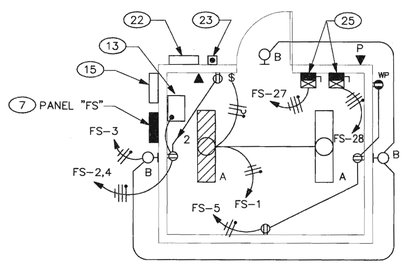
SCALE: 1" = 10'–0"

0' 10' 20'



POLE MOUNTING DETAIL

SCALE: NONE



ENLARGED FUELING BUILDING ELECTRICAL PLAN

REGISTERED PROFESSIONAL ENGINEER STATE OF NEW MEXICO NO. 10004 DANIEL W. ROMERO JR. 2.22.00

RECORD DRAWINGS

AS BUILT INFORMATION
CONTRACTOR ESA CONSTRUCTION INC
WORK STAKED BY ESA CONS. INC. DATE 23AUG01
ACCEPTANCE BY PEDRONCELLI C.O.A. DATE 23AUG01
FIELD VERIFICATION BY PEDRONCELLI C.O.A. DATE 23AUG01
DRAWINGS CORRECTED BY J. ALLEN BOURNE DATE 28SEP01
CORRECTED BY Smith Engr.

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CITY OF ALBUQUERQUE
ENVIRONMENTAL HEALTH DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: EASTSIDE FUELING STATION
ELECTRICAL SITE PLAN

Design Review Committee: APPROVED FEB 17 '00 DESIGN REVIEW COMMITTEE
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City Project No. 624191 | Zone Map No. K-20 -Z | Sheet E1.01 Of 12

26/99
25/99
24/99
13/99
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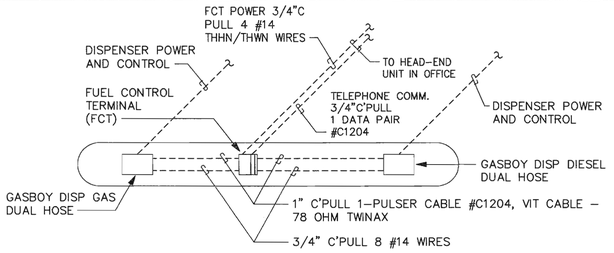
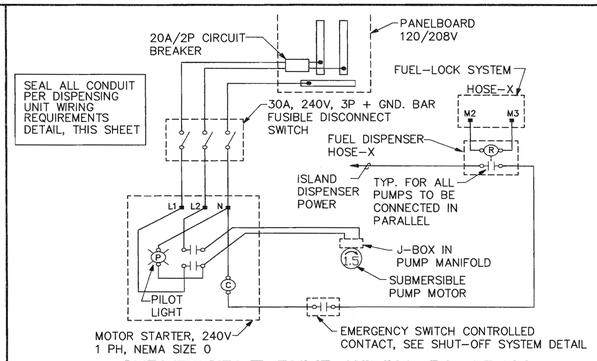


NOTE:
THE FCT, (FUEL CONTROL TERMINAL) SHOULD BE LOCATED ON THE FUEL ISLAND FOR EASY AND SAFE ACCESS FROM EITHER SIDE OF THE ISLAND. IF POSSIBLE IT SHOULD BE INSTALLED FACING INLINE WITH THE ISLAND, NOT FACING ONE OF THE DRIVE LANES. THERE SHOULD BE ABOUT 30" IN FRONT OF THE FCT FOR USER ACCESS.

FUEL ISLAND SYSTEM DETAIL (GENERAL)

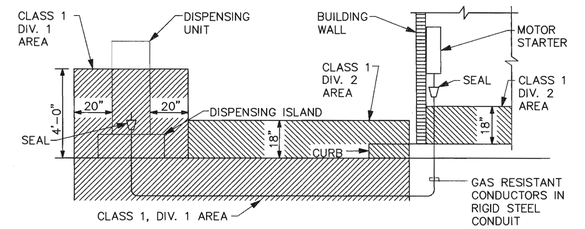
SCALE: NONE



SUBMERSIBLE PUMP WIRING DIAGRAM

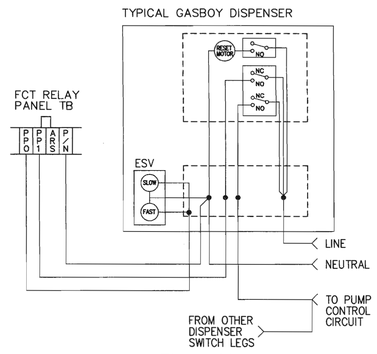
SCALE: NONE

ELECTRICAL INSTALLATION SHALL CONFORM TO ART. 514 OF THE NEC



DISPENSING UNIT WIRING REQUIREMENTS DETAIL

SCALE: NONE



GENERAL NOTES

THIS IS A TYPICAL FUEL CONTROL TERMINAL (FCT) TO DISPENSER CONTROL WIRING CONFIGURATION. THIS IS SET AS AN AFTER RESET CONFIGURATION (ARC) RELAY PANEL, MEANING THE FCT ONLY CONTROLS THE ELECTRIC SOLENOID VALVE AFTER THE REGISTER HAS RESET. TO CHANGE THE RELAY PANEL TO A BEFORE RESET CONFIGURATION (BRC), REMOVE THE JUMPER BETWEEN THE ARS AND PPI LUGS.

A BRC CONFIGURED PANEL WILL NOT SEND POWER TO THE DISPENSER RESET UNTIL THE PUMP IN ENABLED.

PPO= PUMP POWER OUT - (TO DISPENSER SOLENOID)

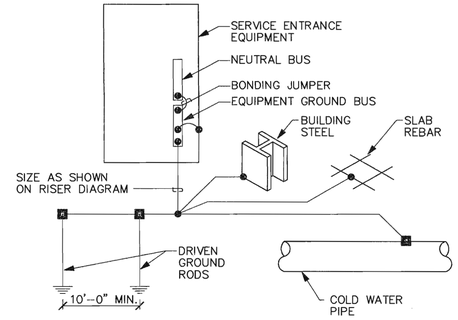
PPI= PUMP POWER IN - (120 VOLTS IN USUALLY SAME AS ARS)

ARS= AFTER RESET SIGNAL-(120 VOLTS WHEN PUMP IS OFF HOOK)

P/N= PUMP NEUTRAL

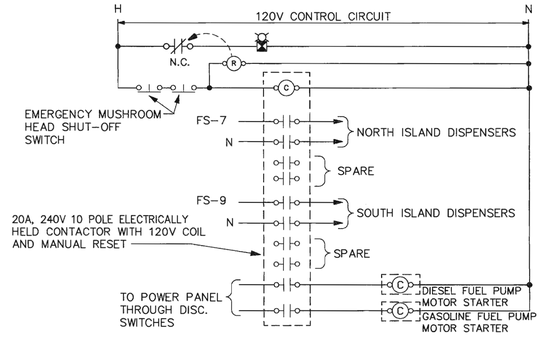
FCT TO FUEL DISPENSER SCHEMATIC

SCALE: NONE



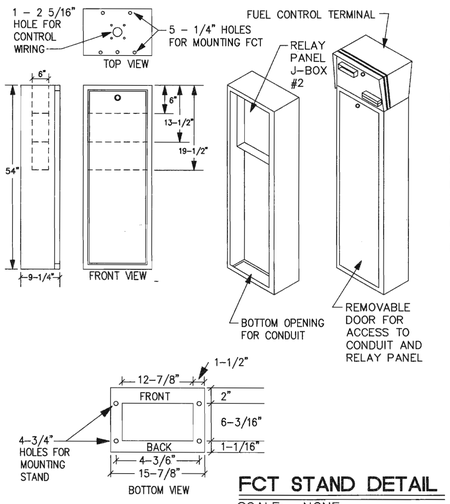
SERVICE GROUNDING DETAIL

SCALE: NONE



EMERGENCY SHUT-OFF SYSTEM DETAIL

SCALE: NONE



NOTES

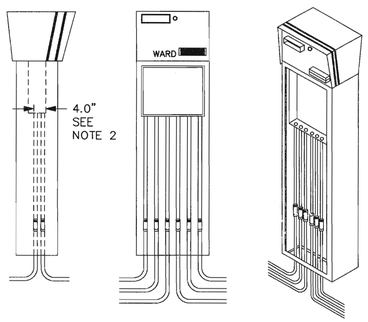
THE TRIMLINE STAND IS DESIGNED TO SUPPORT THE FUEL CONTROL TERMINAL (FCT) AND HOUSE THE RELAY PANEL FOR INTERFACING THE FCT WITH THE DISPENSERS/ PUMPS. THERE ARE (3) SIZES OF RELAY PANELS TO SUPPORT VARIOUS INTERFACE CONFIGURATIONS. THE RELAY PANEL AND STAND ARE DESIGNED SO THE RELAY PANEL CAN BE DISCONNECTED FROM THE FCT AND STAND AND REMAIN ON THE CONDUIT SO THE STAND CAN BE PULLED OFF AND A NEW STAND INSTALLED IN THE EVENT THE STAND IS DAMAGED. THE FRONT COVER ON THE STAND HAS A KEY LOCK FOR EASY

SPECIFICATIONS:
RELAY PANELS

	H	W	D
1	6"	12.75"	6"
2	13.5"	12.75"	6"
3	19.5"	12.75"	6"

FCT STAND DETAIL

SCALE: NONE



NOTES

1 THE BOTTOM OF THE TRIMLINE STAND HAS A 12-7/8" X 6-3/16" OPENING IN THE BOTTOM FOR CONDUIT ENTRANCE.

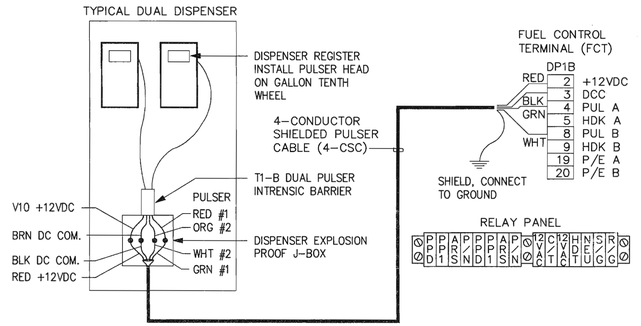
2 CONDUIT ENTRANCE TO THE RELAY PANEL J-BOX SHOULD BE WITHIN THE FIRST FOUR INCHES FROM THE FRONT. THIS IS TO ALLOW ROOM FOR THE RELAY AND RELAY PANEL.

3 DO NOT INSTALL CONDUIT THROUGH THE BACK OF THE J-BOX. THIS SPACE IS NEEDED FOR THE RELAY PANEL.

4 HOLES CAN BE PUNCHED IN THE BACK OR SIDES OF THE STAND FOR CONDUIT ENTRANCE. THESE HOLES SHOULD BE PUNCHED BELOW THE RELAY PANEL.

FCT CONDUIT DETAIL

SCALE: NONE



FUEL DISPENSER CONTROL WIRING DIAGRAM

SCALE: NONE

RECORD DRAWINGS

199533
Smith Engineering Company
A Full Service Engineering Company
6400 Uptown Boulevard, N.E. Suite 600E Albuquerque, New Mexico 87110

CITY OF ALBUQUERQUE
ENVIRONMENTAL HEALTH DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: EASTSIDE FUELING STATION
ELECTRICAL DETAILS

Design Review Committee: APPROVED FEB 17 2000 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED FEB 17 2000 CITY ENGINEER
Last Design Update

No. / Day / Yr.	No. / Day / Yr.

REGISTERED PROFESSIONAL ENGINEER STATE OF NEW MEXICO No. 10004 DANIEL W. ROMERO JR.

City Project No. 624.91 | Zone Map No. K-20 - Z | Sheet E2.01 Of 12

AS BUILT INFORMATION
CONTRACTOR ESA CONSTRUCTION INC.
WORK STAKED BY ESA CONS. INC. DATE 2JAN/01
ACCEPTANCE BY PEDROMCELLI C.O.A. DATE 2JAN/01
VERIFICATION BY PEDROMCELLI C.O.A. DATE 2JAN/01
DRAWINGS CHANGED BY J. ALLEN BOUNDS DATE 29SEP/01
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
CITY OF ALBUQUERQUE ALUMINUM DISC 15-K20, LOCATED AT THE INTERSECTION OF LOMAS AND HENDRON ON CURB RETURN AT SW QUADRANT OF INTERSECTION.
ELEVATION 5379.64

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE
1 RONALD A. FORSTBAUER 11/96
SURVEYING COMPANY

ENGINEERS SEAL

REMARKS / REVISIONS / DESIGN

NO.	DATE	BY
DESIGNED BY SEC	DATE 2/00	
DRAWN BY SEC	DATE 2/00	
CHECKED BY SEC	DATE 2/00	

KEYED NOTES

1 EXISTING POWER POLE TO REMAIN. REFER TO SITE UTILITIES PLAN.

2 EXISTING SECONDARY OVERHEAD SERVICE LINE TO BE UPGRADED TO 4/0 CONDUCTOR (BY PNM).

3 INSTALL RISER UP POLE WITH ALL STAND-OFF BRACKETS AS REQUIRED BY PNM.

4 12" X 12" X LENGTH REQUIRED NEMA 3R, SCREW-COVER WIREWAY. FIELD VERIFY EXACT LOCATION, REROUTE EXISTING CONDUITS IN THIS AREA AS NECESSARY.

5 1 #1/0 BSD COPPER SERVICE GROUND IN 3/4" CONDUIT. REFER TO SERVICE GROUNDING DETAIL ON SHEET E2.01.

6 60A, 240V, 2P+SN, FUSIBLE SERVICE DISCONNECT IN NEMA 3R ENCLOSURE TO SERVE NEW FUELING BUILDING.

7 300A, 3-PHASE FEEDER, UPSIZED FOR VOLTAGE DROP. 4 #500kcmil IN 3.5" CONDUIT.

8 100A, SINGLE-PHASE FEEDER, UPSIZED FOR VOLTAGE DROP. 3 #1/0 IN 1.5" CONDUIT.

9 EXISTING SINGLE-PHASE METER TO BE REPLACED, SEE KEYED NOTE 17.

10 EXISTING 3-PHASE METER TO BE REPLACED, SEE KEYED NOTE 17.

11 EXISTING 100A, 3-PHASE DISCONNECT SWITCH TO REMAIN. REFEED AS INDICATED WITH #2 CONDUCTOR TAP TO MAIN FEEDER.

12 1 #6 BSD COPPER SERVICE GROUND IN 1/2" CONDUIT. REFER TO SERVICE GROUNDING DETAIL.

13 60A, 240V, 2P+SN, BREAK-BEFORE-MAKE, AUTOMATIC TRANSFER SWITCH IN NEMA 3R ENCLOSURE.

14 2" CONDUIT STUB-OUT FOR FUTURE CONNECTION TO FUTURE 10 KVA GENERATOR. EXTEND 5' FROM BUILDING AND MARK WITH BRASS CAP.

15 60A, SINGLE-PHASE FEEDER. 3 #4 AND 1 #10 GROUND IN 1.25" CONDUIT.

16 200A/2P MAIN CIRCUIT BREAKER TO REMAIN. REFEED AS INDICATED WITH #3/0 CONDUCTOR TAP TO MAIN FEEDER.

17 7-JAW, 3-PHASE METERING EQUIPMENT PER PNM REQUIREMENTS (SHALL REPLACE BOTH EXISTING METERS). VERIFY ALL SERVICE WORK WITH PNM, PHONE 241-3698.

18 EXISTING SERVICE EQUIPMENT TO REMAIN. CONNECT TO NEW SERVICE FEEDER AS INDICATED.

19 EXISTING EQUIPMENT TO REMAIN (PHOTOCELL AND 50A RECEPTACLE). RELOCATE IN THE SAME GENERAL AREA AS REQUIRED FOR INSTALLATION OF NEW WIREWAY, SEE KEYED NOTE 4.

GENERAL NOTES (Applies to all electrical sheets)

A. THE CONTRACTOR SHALL CONDUCT A SITE VISIT AND BECOME FAMILIAR WITH THE PROJECT AND SHALL SUBMIT A COMPLETE BID WITHIN THE SCOPE OF THE DRAWINGS AND SPECIFICATIONS. ANY QUESTIONS ARISING IN REGARD TO THE CONTRACTOR'S FUNCTIONS, SCOPE OF THE WORK OR ANY DISCREPANCIES NOTED BY THE CONTRACTOR SHALL BE BROUGHT UP DURING THE BID PERIOD WITH THE ENGINEER FOR CLARIFICATION.

B. THE CONTRACTOR SHALL INCLUDE IN THE BID ALL COSTS FOR INSTALLING JUNCTION BOXES, WORK WITH OTHER DISCIPLINES WHERE THE CONTRACT INVOLVES ELECTRICAL POWER OR CONTROL CONNECTIONS, ETC. AND SHALL COORDINATE WITH ALL TRADES FOR THE EXACT LOCATION OF EQUIPMENT THAT REQUIRES ELECTRICAL CONNECTIONS.

C. LOCATION OF EQUIPMENT AND SHOWN ON THE PLANS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.

D. THE CONDUIT RUNS AS SHOWN ON PLANS INDICATE APPROXIMATE ROUTING. EXACT ROUTING OF CONDUIT SHALL BE AS FIELD CONDITIONS DICTATE.

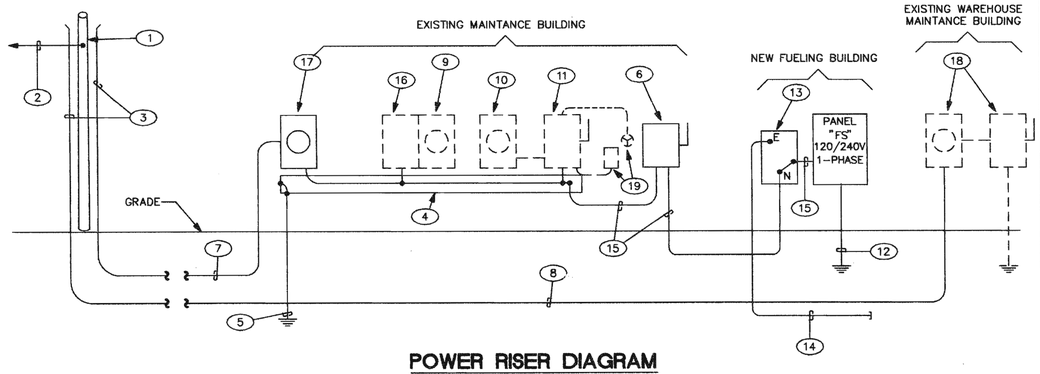
E. CONTRACTOR SHALL INSTALL PULL AND JUNCTION BOXES WHEREVER REQUIRED BY N.E.C. OR JOB CONDITIONS.

F. SHOULD CONTRACTOR AT ANY TIME NOTICE ACTUAL FIELD CONDITIONS DO NOT CORRESPOND TO THE DRAWINGS, THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE ENGINEER AS SOON AS POSSIBLE FOR CLARIFICATION.

G. THE CONTRACTOR SHALL BE AWARE THAT ALL POWER SYSTEMS ARE OPERABLE AND SHALL REMAIN OPERABLE AT PROJECT COMPLETION. THIS REQUIRES THE CONTRACTOR TO FIELD VERIFY ALL EXISTING FEEDERS IN AREAS OF MODIFICATIONS PRIOR TO ANY WORK IN THESE AREAS.

H. INTERRUPTION OF ANY ELECTRICAL SERVICES SHALL BE COORDINATED WITH THE OWNER AT LEAST SEVEN DAYS PRIOR TO THE INTENDED OUTAGE.

I. WHEREVER REQUIRED, FURNISH AND INSTALL UNISTRUT CHANNELS, ANGLE IRONS OR SUPPORT STRUCTURE WITH THREADED ROD HANGERS AS REQUIRED FOR THE PROPER SUPPORT OF ALL ELECTRICAL EQUIPMENT.



POWER RISER DIAGRAM

SCALE: NONE

PANEL **FS** — DESCRIPTION: 240/120V, 1PH, 3W, 60 AMP MAIN CIRCUIT BREAKER, 10,000 AIC, SURFACE MOUNTED, DOOR-IN-DOOR, OUTDOOR WP, NEUTRAL BAR, GROUND BAR, 30 TOTAL POLES. Description: Sub-Feed: 199533 - EASTSIDE FUELING STATION 1/12/00

CCT NO.	Load Code	LOAD DESCRIPTION	BKR SIZE	LOAD (VA)	PHASE A	PHASE B		LOAD (VA)	BKR SIZE	LOAD DESCRIPTION	Load Code	CCT NO
1		LIGHTING	20A/1P	80	1080			1000	20A/1P	RECEPTACLES		2
3		LIGHTING	20A/1P	300		1300		1000	20A/1P	RECEPTACLES		4
5		CNG DISPENSER	20A/1P	750	1290			540	20A/1P	RECEPTACLES		6
7		GD-1 DISPENSERS	20A/1P	200		200			20A/1P	SPARE		8
9		DD-1 DISPENSERS	20A/1P	200	200				20A/1P	SPARE		10
11		POLE LIGHTS/CANOPY LIGHTS	20A/2P	1500		1500			20A/1P	SPARE		12
13		****	****	1500	1500				PROV.	SPACE		14
15		SPARE	20A/1P			0			PROV.	SPACE		16
17		SPACE	PROV.		0				PROV.	SPACE		18
19		SPACE	PROV.			0			PROV.	SPACE		20
21		SPACE	PROV.		0				PROV.	SPACE		22
23		SPACE	PROV.			0			PROV.	SPACE		24
25		SPACE	PROV.		0				PROV.	SPACE		26
27		FUEL PUMP SP-1, 3/4 HP	20A/3P			1200		1200	20A/2P	FUEL PUMP SP-2, 1.5 HP		28
29		****	****		1200			1200	****	****		30
			Feed-Thru		5270	4200						
			Total KVA		9.5	240V	39	Amps				

Softec Systems, Panel_Ez v1.1a

LOAD SUMMARY: 240V, 3 PHASE, DELTA

	CONNECTED LOAD	CODE DEMAND LOAD
FUELING BUILDING	9.5 KVA	11.2 KVA
FUTURE (10%)	1.0 KVA	1.0 KVA
TOTAL	10.5 KVA	12.2 KVA (51A)

SHORT CIRCUIT CURRENT ANALYSIS

BASED ON MAXIMUM TRANSFORMER LET-THROUGH WITH UNLIMITED PRIMARY SHORT CIRCUIT CURRENT (S.C.C.):

EXISTING BUILDING TRANSFORMER SIZE = 75 KVA
NOMINAL TRANSFORMER IMPEDANCE (%Z) = 2.0%

S.C.C. AVAILABLE AT TRANSFORMER SECONDARY = 15,625A
S.C.C. AVAILABLE AT MAIN 60A DISCONNECT SWITCH = 9,800A
S.C.C. AVAILABLE AT LOAD SIDE OF 60A RK1 FUSES = 2,000A

PANELBOARD "FS" SHALL HAVE A MINIMUM A.I.C. AND BRACING AS SHOWN ON SCHEDULE.

ENERGY CODE ANALYSIS

THE PLANS AND SPECIFICATIONS ARE DESIGNED IN CONFORMANCE WITH MODEL ENERGY CODE LIGHTING LEVELS.

INTERIOR LIGHTING LOAD ---------- 80 W / 100 SQ. FT. = .8 W/SQ. FT.

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	LAMPS	MOUNTING
A	LITHONIA #C 2 32 120 GEB10 WGOLN (4' UTILITY STRIP W/WIREGUARD, < 10% THD EB)	2/F32-T8/ SP35/RS	SURFACE
B	McGRAW-EDISON #M2072-L-P-120V (EXTERIOR WALLPACK, HPF BALLAST)	1/70W/HPS	SURFACE
C	McGRAW-EDISON #GSJ1522RA-RFGL-BK-240V (EXTERIOR CANOPY LIGHT, HPF BALLAST)	1/150W/HPS	SURFACE
D	McGRAW-EDISON #GSF-40-2-2-1-3MF-L-OA1016 W 25' SSS POLE (EXTERIOR POLE LIGHT)	1/400W/HPS	25' POLE, SEE DETAIL

ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION
⬭	KEYED NOTE SYMBOL – ELECTRICAL.
⬡	MECHANICAL EQUIPMENT DESIGNATION – SEE MECHANICAL EQUIPMENT SCHEDULE.
WP	WEATHERPROOF.
AC	ABOVE COUNTER (6" UNLESS NOTED OTHERWISE).
AFF	ABOVE FINISH FLOOR.
B	BRACKET FIXTURE AND OUTLET. TYPE AS INDICATED IN FIXTURE SCHEDULE.
C	FLUORESCENT FIXTURE AND OUTLET. TYPE AS INDICATED IN FIXTURE SCHEDULE.
	LIGHT FIXTURES INDICATED WITH SHADING ARE CONNECTED TO EMERGENCY POWER SOURCE WITH SELF-TESTING/SELF-DIAGNOSTICS. BODINE #B50ST (1350 LUMENS) BATTERY PACK OR APPOVED EQUAL. PROVIDE ALL MOUNTING HARDWARE REQUIRED FOR A COMPLETE INSTALLATION, COORDINATE WITH LIGHTING MFR.
	POLE MOUNTED FIXTURE. TYPE AS INDICATED IN FIXTURE SCHEDULE.
S	SINGLE POLE WALL SWITCH. FLUSH MOUNTED UP 44" UNLESS OTHERWISE INDICATED.
S_P	PILOT SWITCH. FLUSH MOUNTED UP 44" UNLESS OTHERWISE INDICATED.
S_T	THERMAL SWITCH. WEATHERPROOF IF INSTALLED OUTSIDE. FLUSH MOUNTED UP 44" UNLESS OTHERWISE INDICATED.
J	JUNCTION BOX FLUSH IN WALL. HEIGHT AS INDICATED FOR CONNECTION TO EQUIPMENT.
	20 AMP DUPLEX CONVENIENCE RECEPTACLE, 6" ABOVE COUNTER OR AS INDICATED.
	20 AMP DUPLEX CONVENIENCE RECEPTACLE, UP 18" OR AS INDICATED.
	20 AMP GROUND FAULT INTERRUPTING DUPLEX CONVENIENCE RECEPTACLE, UP 18" OR AS INDICATED.
	20 AMP FOURPLEX CONVENIENCE RECEPTACLE, UP 18" OR AS INDICATED.
	TELEPHONE OUTLET, UP 18" OR AS NOTED. TYPE AS INDICATED (W-WALL MOUNTED UP 44", P-PAYPHONE). EXTEND 3/4" CONDUIT TO TERMINAL CABINET.
T	TRANSFORMER, AS NOTED.
	SPECIAL CABINET, TELEPHONE TYPE OR AS NOTED.
	LIGHTING BRANCH CIRCUIT PANEL, SEE PANEL SCHEDULE FOR CHARACTERISTICS.
2	MOTOR CONNECTION WITH HP INDICATED.
F	MOTOR CONNECTION FOR FRACTIONAL HP MOTOR (LESS THAN 1/3 HP). PROVIDE THERMAL O.L. SWITCH ADJACENT TO ALL MOTORS UNLESS SWITCH IS SHOWN ELSEWHERE ON PLAN.
	MOTOR STARTER, SIZE AND POLES FOR MOTOR FURNISHED.
30/3	DISCONNECT SWITCH, NON-FUSED, SUBSCRIPT INDICATES SWITCH AMPERAGE AND NUMBER OF POLES, BE NEMA 3R IF INSTALLED OUTDOORS. VOLTAGE RATING AS REQUIRED BY SYSTEM.
30/3/20	DISCONNECT SWITCH, FUSED, SUBSCRIPT INDICATES SWITCH AMPERAGE, NUMBER OF POLES AND FUSE SIZE. TO BE NEMA 3R IF INSTALLED OUTDOORS. PROVIDE FUSES AT 125% F.L.A. OF UNIT UNLESS OTHERWISE INDICATED. VOLTAGE RATING AS REQUIRED BY SYSTEM.
	COMBINATION MOTOR STARTER / DISCONNECT SWITCH.
—T—	TELEPHONE CONDUIT, MINIMUM 1/2" WITH CABLE. SEE DETAIL & SPECIFICATIONS FOR CONDUIT/CABLE REQUIREMENTS.
	BRANCH CIRCUIT CONDUIT IN WALLS, CEILING OR BELOW SLAB WITH CONDUCTORS INDICATED.
	BRANCH CIRCUIT CONDUIT UNDER FLOOR WITH CONDUCTORS INDICATED.
A–2,4	HOME RUN CONDUIT TO PANEL WITH BRANCH CIRCUIT NUMBERS INDICATED.
	POWER CONDUIT, CONDUCTORS TYPICALLY SHOWN AT CIRCUIT BEGINNING ONLY.
	LIGHTING CONDUIT, CONDUCTORS TYPICALLY SHOWN AT CIRCUIT BEGINNING ONLY. SWITCH LEGS SHOWN AS REQUIRED FOR CLARITY.
	TIC MARKS REPRESENT NEUTRAL, HOT, SWITCH LEG AND GROUND CONDUCTORS RESPECTIVELY.
	EXISTING CONDUIT.
E_{OH}	ELECTRICAL OVERHEAD SERVICE.
E_{UG}	ELECTRICAL UNDERGROUND SERVICE.
	EYS SEAL-OFF FITTING.

RECORD DRAWINGS

REGISTERED PROFESSIONAL ENGINEER — STATE OF NEW MEXICO — NO. 10004 — DANIEL W. ROMERO Jr. — 12-27-00

AS BUILT INFORMATION
CONTRACTOR ESA CONSTRUCTION T/C — DATE 23AUG01
WORK PERFORMED BY ESA CONS. INC. — DATE 23AUG01
INSPECTIONS/ACCEPTANCE BY PEDRONCELLI C.O.A. — DATE 23AUG01
VERIFICATION BY PEDRONCELLI C.O.A. — DATE 23SEP01
DRAWINGS CORRECTED BY SMITH ENGR — DATE
MICRO-FILM INFORMATION — DATE
RECORDED BY — NO.

BENCH MARKS
CITY OF ALBUQUERQUE ALUMINUM DISC 15-K20, LOCATED AT THE INTERSECTION OF LOMAS AND HENDRON ON CURB RETURN AT SW QUADRANT OF INTERSECTION.
ELEVATION 5379.64

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
1	RONALD A. FORSTBAUER	11/96

SURVEYING COMPANY

ENGINEERS SEAL

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY SEC	DATE 2/00
		DRAWN BY SEC	DATE 2/00
		CHECKED BY SEC	DATE 2/00

199533
Smith Engineering Company
A Full Service Engineering Company
6400 Uptown Boulevard, N.E. Suite 880E Albuquerque, New Mexico 87110

CITY OF ALBUQUERQUE
ENVIRONMENTAL HEALTH DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: EASTSIDE FUELING STATION
SYMBOL LEGEND, SCHEDULE AND PANEL

Design Review Committee: APPROVED FEB 17 2000 — DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED FEB 17 2000 — CITY ENGINEER
Last Design Update — No. / Day / Yr. — No. / Day / Yr.

City Project No. 624191 | Zone Map No. K-20 -Z | Sheet E3.01 Of 12