DRAINAGE INFORMATION SHEET

PROJECT TITLE: Compton Warehouse ZONE ATLAS/DRNG. FILE #: D18/D22

DRB #: _____ EPC #: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: Lot # 23-B, Block 6, Subdivision North Alb. Acre, Tract A, Unit A

CITY ADDRESS: 5715 Coronado Ave NE

ENGINEERING FIRM:	Weiss-Hines	CONTACT:	Chris Weiss
ADDRESS:	1100 Alvarado NE	PHONE:	266-3444
OWNER:	Compton Painting	CONTACT:	Steve
ADDRESS:		PHONE:	
ARCHITECT:	Berent Groth	CONTACT:	Berent
ADDRESS:	1100 Alvarado NE	PHONE:	266-3444
SURVEYOR:	Ron Forstbauer	CONTACT:	Ron
ADDRESS:		PHONE:	268-6519
CONTRACTOR:	Chant & Associates	CONTACT:	Greg
ADDRESS:	3434 Vassar NE	PHONE:	883-8906

TYPE OF SUBMITTAL:

____ DRAINAGE REPORT
____ DRAINAGE PLAN
____ CONCEPTUAL GRADING & DRAINAGE PLAN
____ GRADING PLAN
____ EROSION CONTROL PLAN
____ ENGINEER'S CERTIFICATION
____ OTHER

PRE-DESIGN MEETING:

____ YES
____ NO
____ COPY PROVIDED

CHECK TYPE OF APPROVAL SOUGHT:

____ SKETCH PLAT APPROVAL
____ PRELIMINARY PLAT APPROVAL
____ S. DEV. PLAN FOR SUB'D. APPROVAL
____ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
____ SECTOR PLAN APPROVAL
____ FINAL PLAT APPROVAL
____ FOUNDATION PERMIT APPROVAL
____ BUILDING PERMIT APPROVAL
____ CERTIFICATE OF OCCUPANCY APPROVAL
____ GRADING PERMIT APPROVAL
____ PAVING PERMIT APPROVAL
____ S.A.D. DRAINAGE REPORT
____ DRAINAGE REQUIREMENTS
____ OTHER Revised Elevations (SPECIFY)

RECEIVED
JUL 9 1990
HYDROLOGY DIVISION

DATE SUBMITTED: 7/9

BY: Greg Chant

FILE COPY

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

July 12, 1990

Chris Weiss
Weiss-Hines Engineering
1100 Alvarado, NE
Albuquerque, NM 87110

RE: REVISED DRAINAGE PLAN FOR A WAREHOUSE FOR STEVE COMPTON
(D-18/D22) REVISION DATED JULY 9, 1990

Dear Mr. Weiss:

Based on the information provided on your resubmittal of July 9, 1990, revisions as indicated are acceptable.

Please be advised that all other items found on my letter dated February 28, 1990, are still valid.

If I can be of further assistance, please feel free to call me at 768-2650.

Cordially,

for Bernie J. Montoya
Fred J. Aguirre, P.E.
Hydrologist

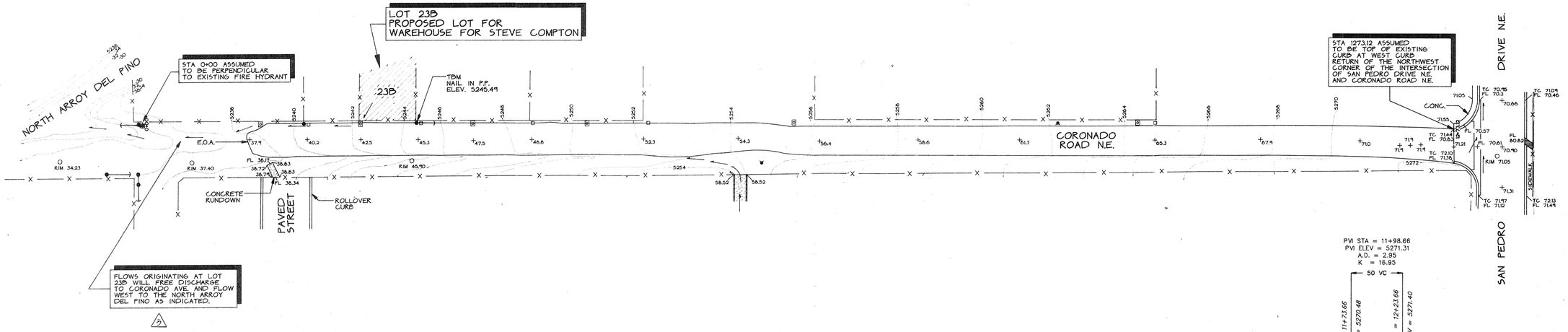
xc: Greg Chant
3434 Vassar, NE

BJM:FJA/bsj
(WP+1584)

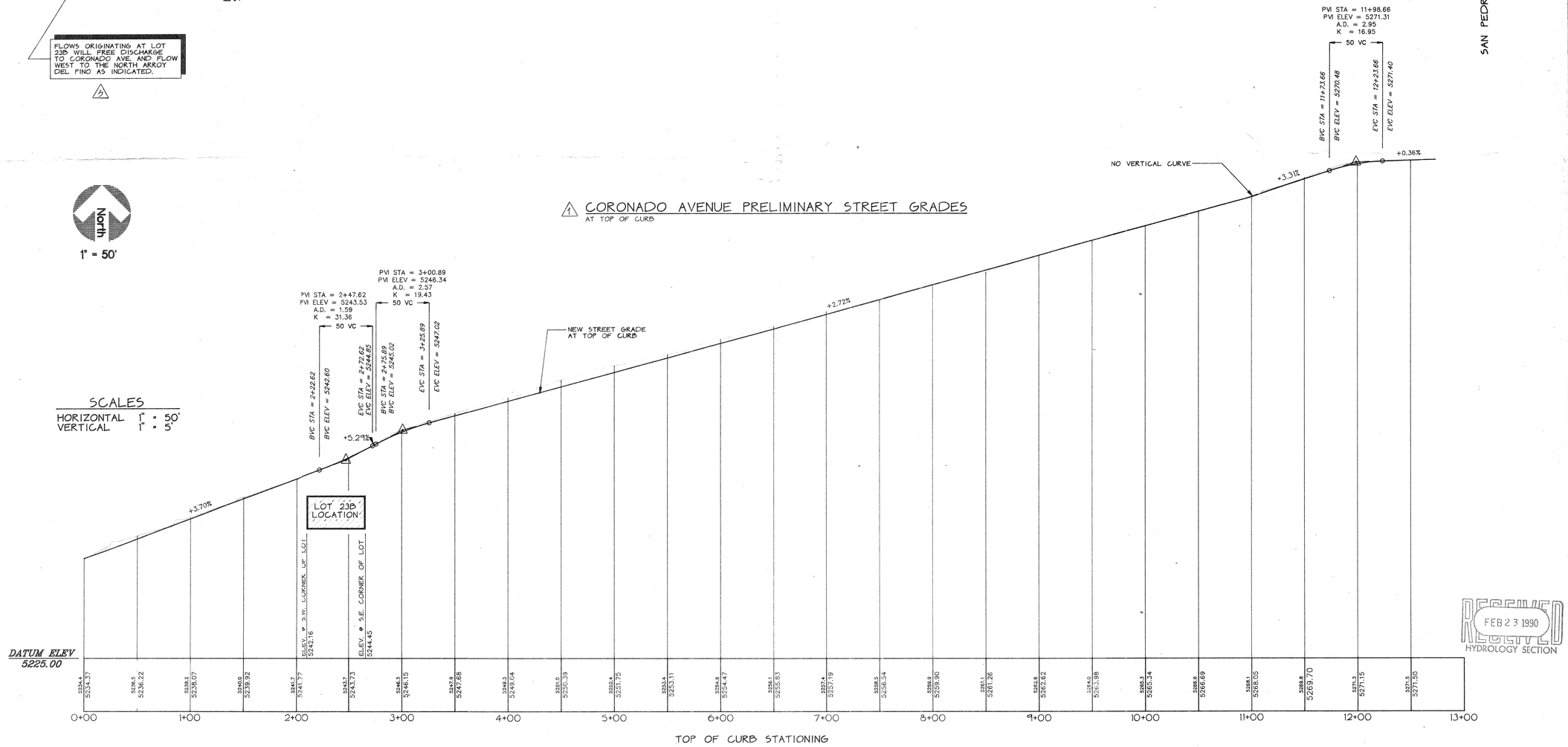
LEGEND	
□	EXISTING TELE. BOX
●	EXISTING P.P.
○	EXISTING MH
⊠	EXISTING WM ON 4'X5' CONC.
¥	EXISTING FH
—X—	EXISTING CHAIN-LINK FENCE
40.2+	EXISTING SPOT ELEV.

* NOTE: BENCHMARKS - CITY OF ALBUQUERQUE
11-D18 - ELEV. 5363.23.

CORONADO AVENUE EXISTING STREET PLAN



CORONADO AVENUE PRELIMINARY STREET GRADES
AT TOP OF CURB



SCALES
HORIZONTAL 1" = 50'
VERTICAL 1" = 5'

1" = 50'

RECEIVED
FEB 23 1990
HYDROLOGY SECTION

WEISS-HINES ENGINEERING INC.
1100 ALVARADO N.E. SUITE B
ALBUQUERQUE, NEW MEXICO 87110
(505) 266 - 3444

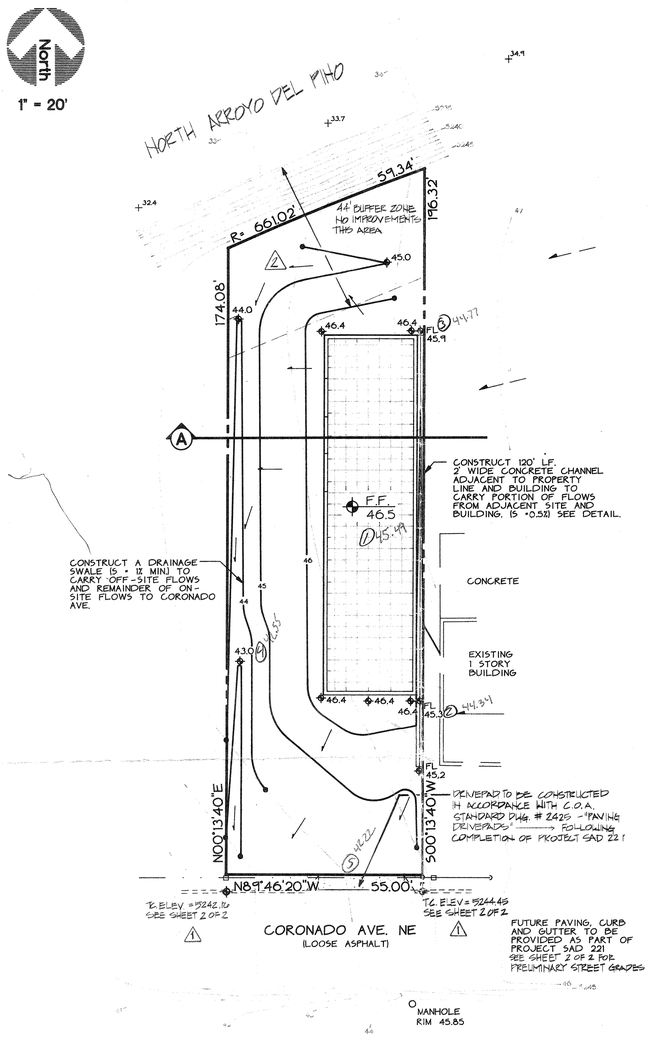
REVISIONS	DATE
DESIGNED DH	2-90
DRAWN DH	2-90
CHECKED CLH	2-90

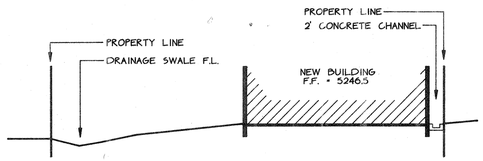
PRELIMINARY STREET GRADES
WAREHOUSE FOR STEVE COMPTON

ENGINEERING

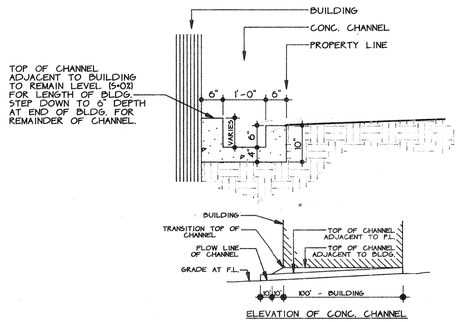
CHRISTOPHER L. HINES
NEW MEXICO
9323
PROFESSIONAL ENGINEER

SHEET 2 OF 2





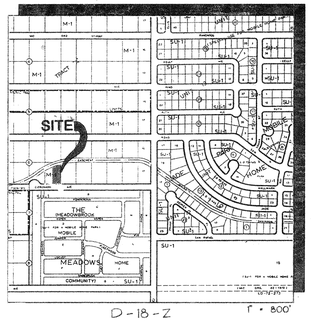
SECTION A



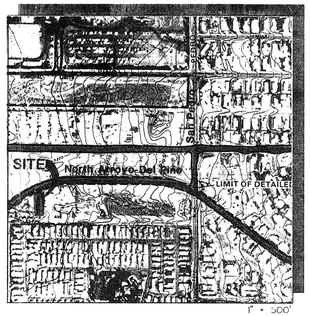
CONCRETE CHANNEL

LEGEND

	SIDEWALK, CURB & GUTTER (EXISTING, PROPOSED) PROPOSED ASPHALT
	BUILDING (EXISTING, PROPOSED)
	PROPERTY LINE
+65.7	EXISTING SPOT ELEVATION
-20	EXISTING CONTOUR
75.2	PROPOSED SPOT ELEVATION
30	PROPOSED CONTOUR
	SURFACE FLOW DIRECTION (EXISTING, PROPOSED)
L.A.	LANDSCAPED AREA
F.L.	FLOW LINE
F.F.	FINISHED FLOOR
R/W	RIGHT OF WAY
℄	PROPERTY LINE



VICINITY MAP



FLOOD HAZARD MAP

RESUBMITTAL 1-29-90
CHRISTOPHER L. WEISS DATE

RESUBMITTAL 2-23-90
1. PRELIM. STREET GRADES - SHEET 2
2. INCREASED BUFFER ZONE
3. DRAINAGE CLARIFICATION - SHEET 2
CHRISTOPHER L. WEISS DATE

$Q = VA$
$V = \frac{Q}{A} = \frac{.62}{.24} = 2.6$ fps
$V = \frac{.82\text{ cfs}}{.24\text{ ft}^2}$

SCOPE:

The proposed improvements are comprised of a 2,500 SF slab on grade building. Gravel will be laid over remainder of site.

The present site is undeveloped land sloping at approximately 5% from east to west. Coronado Avenue NE abuts the site to the south, and N. Arroyo Del Pino to the north. The land to the east of the property is developed with a single story commercial building and unpaved storage area. The land to the west of the property is undeveloped.

The intent of this plan is to show:

a) Grading relationships between the existing ground elevations and proposed finished elevations in order to facilitate positive drainage to designated discharge points.

b) The extent of proposed site improvements, including buildings, walks and pavement.

c) The flow rate of rainfall runoff across or around these improvements and methods of handling these flows to meet City requirements for drainage management.

d) The relationship of onsite improvements with existing neighboring property to insure an orderly transition between proposed and surrounding grades.

DRAINAGE PLAN CONCEPT:
Developed flows for the site will free discharge to Coronado Avenue to the south of the site. A 2' wide concrete channel will be constructed adjacent to the east property line to collect flows from the proposed building, and neighboring site and building. Remaining onsite and offsite flows will be carried to Coronado Avenue by means of an earth swale along the west side of the property.

GENERAL NOTES

LEGAL: Lot 23B of Block 6 of replat of Lot 23 of Block 6 Tract A Unit A North Albuquerque Acres Subdivision.

SURVEYOR: Ron Forstbauer Surveying, Rio Rancho, NM.

B.M.: City of Albuquerque Brass Cap 11-D18. Located at the southeast corner of San Pedro and Los Angeles Boulevard NE. Elevation = 5263.23'.

T.B.M.: Nail in power pole at southeast corner of site. Elevation = 5245.49'.

SOILS: Per the SCS Soil Survey of Bernalillo County, the soil is Embudo-Tijeras Complex (EtC), a sandy loam. The soil is classified in hydrologic soil "Group B".

FLOOD HAZARD: Per FEMA Map 10, the site is not in a flood hazard zone.

OFF-SITE DRAINAGE: Offsite flows will be collected in a concrete channel along the east property line and in the earth swale along the west side of the site and discharged into Coronado Ave.

EROSION CONTROL: Contractor will be responsible for containing any sediment generated during construction by using either a fabric silt fence or by constructing a 1' high earth berm across flow points of discharge from the site.

CALCULATIONS:

Calculations are based on the City of Albuquerque D.P.M. Manual, Vol. II for the 100-year, 6-hour storm, using the Rational Formula to compare the existing and proposed runoff rates.

AREA OF SITE: 10,244 SF = 0.24 AC

RAINFALL INTENSITY:

$I = P_6 (6.84)\ T_c^{-0.51} = 4.86$" per hour
where $P_6 = 2.3$"(DPM 22.2 D-1)
$T_c = 10$ minutes

RUN-OFF COEFFICIENT:

Existing site:
Undeveloped Area = 10,244 SF

$C_u = \frac{(10,244)(0.40)}{10,244} = 0.40$

Composite C = 0.40

Developed Site:
Roof Area = 2,500 SF
Landscaped Area = 7,494 SF
Paved Area = 250 SF

$C_r = \frac{(2,500)(0.90)}{10,244} = 0.22$

$C_l = \frac{(7,494)(0.40)}{10,244} = 0.29$

$C_p = \frac{(250)(0.95)}{10,244} = 0.02$

Composite C = 0.53

Existing Condition:

$Q_{100} = (0.40)(4.86)(0.24) = 0.47$ cfs

Developed Condition:

$Q_{100} = (0.53)(4.86)(0.24) = 0.62$ cfs

SUMMARY:
$Q_{100} = (0.62)-(0.47) = 0.15$ cfs (Increase)

OTHER CALCULATIONS:
Runoff Coefficient for offsite flows = 21,780 SF = 0.5 Acre
Undeveloped area = 20,980 SF
Roof Area = 800 SF
Composite C = 0.42

C_u offsite $= \frac{(20,980)(0.40)}{21,780} = 0.39$

C_r offsite $= \frac{(800)(0.95)}{21,780} = 0.03$

$Q_{100} = (0.42)(4.86)(0.50) = 1.0$ cfs

Flow through concrete channel =
Roof of new building + 75% offsite flows (0.28 cfs) + (1.0 cfs)(75%) = 1.1 cfs

Concrete Channel Flow Depth:
Total Q = 1.1 cfs
Using Manning's Equation at S = 0.005, N = 0.013
Depth of Flow = 4.6"
Channel Depth = 6.0"
Capacity = OK

HYDROLOGY APPROVAL & INSPECTION
APPROVED FOR BUILDING PERMIT 2.23.90
ENGINEER B. Montoya DATE 2.23.90
INSPECTION REQUESTED DATE 6-11-90
APPROVAL DATE 7/11/90 DISAPPROVED 6-11-90
S.A.D. APPROVAL DATE N/A
SURVEY DATE ~~5-97~~ 6-11-90
HYDROLOGY BOOK NO./PAGE NO. 89-1 pg 89 # 44
SURVEYED BY A. MARTINEZ. A. GARCIA.
COMMENTS

RECEIVED
FEB 23 1990
HYDROLOGY SECTION

WEISS-HINES ENGINEERING INC.
1100 ALVARADO N.E. SUITE B
ALBUQUERQUE, NEW MEXICO 87110
(505) 266 - 3444

REVISIONS | DATE
DESIGNED PP | 1-90
DRAWN PP | 1-90
CHECKED CH | 1-90

DRAINAGE AND GRADING PLAN
WAREHOUSE FOR STEVE COMPTON

ENGINEERING

CHRISTOPHER L. WEISS NEW MEXICO 6863 REGISTERED PROFESSIONAL ENGINEER

SHEET 1 OF 2