



City Of Grand Junction, Colorado
Community Development Department
250 North Fifth Street
81501-2668

To file:

I met with representatives on this project several times. However, it is now the feds opinion that they are exempt from our Reg. so we are choosing not to waste any more time commenting on it. As noted by Don Newton in a site plan review meeting "these are the most complete set of plans we've ever seen". No problems with the proposed development. It will be an asset to the airport.

Kathy Portner
4/11/94

National Oceanic and Atmospheric Administration,

Host Agency serving:

Bureau of the Census
Economic Development Administration
International Trade Administration
Minority Business Development Agency
Office of Export Enforcement
Office of the Inspector General
U.S. Travel and Tourism Administration



U.S. DEPARTMENT OF COMMERCE

Central Administrative Support Center

Federal Building, Room 1736
601 East 12th Street
Kansas City, Missouri 64106

NOV 16 1993

Ms. Katherine Portner
Senior Planner
City of Grand Junction
250 North 5th Street
Grand Junction, CO 81501

Dear Ms. Portner:

SUBJECT: Proposed Weather Forecast Office
Grand Junction Airport (Walker Field)
NWS Project - Grand Junction, CO (EN)

In order to take advantage of technological advances and to enhance its mission to reduce loss of life, injury, and property damage due to the weather, the National Weather Service is modernizing its nationwide system of offices. Plans for the modernization include construction of a building to house a Weather Forecast Office at Grand Junction Airport (Walker Field). The building will be built on land leased by the government from the Grand Junction Airport. Fluor Daniel is the professional services contractor retained by the Federal Government to design the facility and coordinate its construction.

The National Weather Service wants to cooperate with the airport, state, and local governments by constructing its facilities to meet their requirements as much as possible. While we are not allowed to pay for plan reviews, we would appreciate your checking the plans for compliance with your requirements. Since a similar design is used for many facilities around the country, we are occasionally unable to comply with all requests of a particular locality, but we will try to arrive at a mutually agreeable solution.

Please review the enclosed drawings and forward comments within three weeks of the date of this letter to:

U.S. Department of Commerce
c/o Fluor Daniel, Inc.
4600 Madison Avenue, Suite 900
Kansas City, MO 64112
Attention: Lynn Suchomel (816) 751-6562

Ms. Portner
Senior Planner
Page 2 of 2

We also request your assistance in determining if all the necessary parties are being contacted for design review. Review drawings are being forwarded to the following:

Mr. Michael E. Sutherland, Airport Operations Manager
Mr. Tim Ryan, Chief Building Official
Mr. George Bennett, Fire Department
Mr. J. Don Newton, City Engineer

Please inform us if you know of others who should be contacted. We appreciate your assistance on this project.

Sincerely,



Kenneth L. Leonard
Real Property Program Manager
Special Engineering Program
Office

Enclosures

National Oceanic and Atmospheric Administration,

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Federal Building, Room 1736
601 East 12th Street
Kansas City, Missouri 64106

FEB 24 1994

Katherine Portner
Senior Planner
City of Grand Junction
250 North 5th Street
Grand Junction, CO 81501

Dear Ms. Portner:

SUBJECT: Proposed Weather Forecast Office
Grand Junction Airport (Walker Field)
NWS Project - Grand Junction, CO (EN)

Enclosed for your information are final drawings and specifications for the proposed Weather Forecast Office at Grand Junction Airport. The preliminary schedule is to begin construction in June 1994. The project should be completed by March 1995.

Please forward comments regarding the current submittal to the Government's professional services contractor listed below:

U.S. Department of Commerce
c/o Fluor Daniel, Inc.
4600 Madison Avenue, Suite 900
Kansas City, MO 64112
Attention: Lynn Suchomel (816) 751-6562 (Permits) or
Tim Scott (816) 751-6522 (Project Engineer)

Sincerely,

A handwritten signature in cursive script that reads "Kenneth L. Leonard".

Kenneth L. Leonard
Real Property Program Manager
Special Engineering Program
Office

Enclosures

Tossed bid document & bldg specs.

PART I, SECTION C -- DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

SPECIFICATIONS

FOR

CONSTRUCTION OF A WEATHER FORECAST OFFICE (WFO)

LOCATED AT

GRAND JUNCTION, COLORADO

ISSUED BY

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
CENTRAL ADMINISTRATIVE SUPPORT CENTER
601 EAST 12TH STREET, RM. 1756
KANSAS CITY, MISSOURI 64106

SECTION CTABLE OF CONTENTSDIVISION 1 - GENERAL REQUIREMENTS

01010	Summary of the Work
01012	Work by Others
01015	Contractor Use of Premises
01016	Occupancy by Owner
01018	Government Furnished Equipment
01020	Government Furnished Material
01025	Measurement and Payment
01060	Regulatory/Permitting Requirements
01065	Safety
01153	Change Procedure
01200	Project Meetings
01310	Construction Schedules
01340	Submittals
01400	Quality Control
01500	Construction Utilities
01540	Security
01560	Temporary Controls/Environmental Protection
01580	Project Identification Sign
01590	Field Offices
01720	Record Drawings

DIVISION 2 - SITEWORK

02070	Selective Demolition
02210	Earthwork
02444	Chain Link Fences
02487	Seeding
02490	Plant Materials
02513	Paving and Marking
02713	Water Distribution System
02722	Sanitary Sewer System
02725	Storm Drains
02726	Precast Handholes

DIVISION 3 - CONCRETE

03200	Concrete Reinforcement
03300	Cast-in-Place Concrete

DIVISION 4 - MASONRY

04200	Brick Masonry
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DIVISION 5 - METALS

05120	Structural Steel
05211	Open Web Steel Joists
05321	Metal Roof Floor Deck
05400	Cold-Formed Metal Framing

DIVISION 6 - WOOD AND PLASTICS

06100	Rough Carpentry
06400	Architectural Woodwork

DIVISION 7 - THERMAL AND MOISTURE PROTECTION

07115	Sheet Waterproofing
07200	Insulation
07311	Asphalt Shingles
07410	Flashing and Sheet Metal
07420	Preformed Metal Siding
07510	Built-up Asphalt Roofing System
07900	Joint Sealers

DIVISION 8 - DOORS AND WINDOWS

08100	Steel Doors and Frames
08211	Wood Doors
08305	Access Doors
08360	Fiberglass/Aluminum Doors
08405	Aluminum Entrances and Windows
08700	Finish Hardware
08800	Glass and Glazing

DIVISION 9 - FINISHES

09260	Gypsum Wallboard System
09300	Tile
09510	Acoustical Ceilings
09650	Resilient Flooring
09680	Carpeting
09900	Painting
09950	Wallcoverings

DIVISION 10 - SPECIALTIES

10160	Toilet Partitions
10270	Access Flooring
10350	Flagpole
10440	Specialty Signs
10445	Specialty Sign Installation
10500	Metal Lockers
10520	Fire Extinguishers, Cabinets and Accessories
10800	Toilet Accessories

DIVISION 11 - EQUIPMENT

(Not Used)

DIVISION 12 - FURNISHINGS

12510	Venetian Blinds
12690	Floor Mats

DIVISION 13 - SPECIAL CONSTRUCTION

(Not Used)

DIVISION 14 - CONVEYING SYSTEMS

(Not Used)

DIVISION 15 - MECHANICAL

15400	Plumbing
15600	Heating, Ventilating, and Air Conditioning
15700	Packaged Air Conditioner Systems Installation
15800	Diesel Driven Generator Installation (DDG/Storage Bldg)
15850	Diesel Fuel Storage Tank System Installation (GFE)

DIVISION 16 - ELECTRICAL

16000	Electrical
16900	UPS Installation

SECTION 01010

SUMMARY OF THE WORK

PART 1 - GENERAL

- 1.1 SCOPE. The project is titled "Weather Forecast Office (WFO), Grand Junction, Colorado." It is located on a parcel of approximately 3 acres at the eastern portion of the Walker Field Airport in Grand Junction, Colorado.

The work of this contract includes, but is not limited to earthwork, construction of a new Weather Forecast Office (WFO) building, installation and connection of Government furnished equipment and material, coordination of public utilities services, connection to utilities, paving and landscaping.

PART 2 - PRODUCTS

- 2.1 SPECIFICATIONS, DRAWINGS, ATTACHMENTS AND REFERENCES. All products and services provided by the Contractor under this contract shall, as a minimum, meet the standards set forth in the specifications, drawings, attachments and reference documents made a part of this contract. The applicable revision of all codes, standards, and specifications referenced in this contract shall be the latest published revision as of the "date issued" shown in Block 3 of SF1442, unless specifically noted otherwise. Federal Acquisition Regulation (FAR) references where listed throughout PART I, Section C, Division 1, General Requirements, are shown as a convenience for finding related material. The applicable FAR revision shall be the ones shown in Sections D through M of the contract. Listing or failure to list a particular FAR clause or provision in PART I, Section C shall in no way limit their interpretation or applicability.
- 2.2 DRAWINGS ACCOMPANYING SPECIFICATION. The following drawings accompany these specifications and are a part hereof. Drawings are the property of the Government, and shall not be used for any purpose other than that contemplated by these specifications.

<u>Drawing No.</u>	<u>Rev.</u>	<u>Description</u>
SKA01	A	Cover Sheet
I01	A	Index/General Information
C01	A	Site and Utilities Plan
C02	A	Finish Grading Plan
C03	A	Sections & Details Sheet 1 of 3
C04	A	Sections & Details Sheet 2 of 3
C05	A	Sections & Details Sheet 3 of 3

<u>Drawing No.</u>	<u>Rev.</u>	<u>Description</u>
A01	A	Landscape Plan
A02	A	Floor Plan
A03	A	Elevations
A04		Wall Sections/Details
A05		Exterior Details
A06		Reflected Ceiling Plan
A07		Roof Plan/Details
A08		Details and Interior Elevations Sheet 1 of 2
A09		Details and Interior Elevations Sheet 2 of 2
A10		Schedules
A11	A	DDG / Storage Building Plan/Elevations & Details
S01		Foundation Plan
S02		Roof Framing Plan
S03		Foundation Sections and Details Sheet 1 of 2
S04		Foundation Sections and Details Sheet 2 of 2
S05		Miscellaneous Concrete Details
S06		Column and Anchor Bolt Schedules/Framing Elevations
S07		Framing Elevations/Misc Sections and Details
S08		Framing Sections and Details Sheet 1 of 3
S09		Framing Sections and Details Sheet 2 of 3
S10		Framing Sections and Details Sheet 3 of 3
S11		DDG/Storage Building Plans, Sections and Details
S12		DDG/Storage Building Sections and Details
S13		Trash Enclosure Plans, Sections and Details
M01		Plumbing Plan
M02		Plumbing Details and Schedules
M03		HVAC Plan
M04		HVAC Sections and Details
M05		HVAC Temperature Controls
M06		HVAC Symbols, Schedules and Legend
M07		Diesel Driven Generator Plan and Fuel Tank
E01		Legend and Fixture Schedule
E02		One-line Diagram
E03		Panelboards, Schematics and Control Diagrams
E04	A	Electrical Site Plan
E05	A	Electrical Grounding Plan
E06		Electrical Power Plan

<u>Drawing No.</u>	<u>Rev.</u>	<u>Description</u>
E07		Communications/Controls Plan
E08		Electrical Lighting Plan
E09		Electrical DDG/Storage Building
E10		Electrical Sections and Details
E11	A	Fire Detection Plan

After award of contract, the Government will provide the Contractor with 1 set of full size sepia mylar drawings and 2 sets of full size blue line drawings. Costs for reproducing additional sets of drawings shall be the responsibility of the Contractor.

In addition, the Government will provide the Contractor with 3 sets of these specifications, as amended, after award of the contract. Costs for and the reproduction of additional sets of these specifications shall be the responsibility of the Contractor.

PART 3 - EXECUTION

- 3.1 CONSTRUCTION OF WFO AND SITE IMPROVEMENTS. Contractor shall provide all labor, supervision, equipment, tools, testing devices, materials and material handling, security and accountability, and each and every item of expense necessary for the supply, fabrication, erection, installation and construction of a Weather Forecast Office (WFO) and site improvements, except as specifically set forth in Section 01012, WORK BY OTHERS.
- 3.2 CONSTRUCTION INSPECTION. Contractor's work shall be monitored periodically by the Government's Construction Inspector.
- A. The Construction Inspector will be appointed by letter from the Contracting Officer, with a copy to the Contractor. This letter will set forth the authority of the Construction Inspector.
- B. The Government does not anticipate that a full time Construction Inspector will be assigned to this work. The Government will inspect the work at various times throughout the course of construction. In addition to the random Government inspections, the Contractor shall observe eight construction "hold points" to permit the Government to inspect the work of certain key elements of construction, as follows:
1. Rough grading; foundation forms and embedments prior to placing concrete.
 - Note: The Contractor shall insure all exothermic welds in the grounding system are not covered until inspected by the Government Construction Inspector. Inspection will be at any scheduled hold point inspection as determined by the Contractor.
 - Note: Inspection of brick masonry mock-up wall will occur concurrently with hold point No. 1 or No. 2.

- Note: Whenever included in the contract, the Rohn tower foundation, including reinforcement, anchor bolts and all other embedded items shall be inspected by the Government Construction Inspector prior to placing concrete. Inspection will be during any scheduled hold point inspection as determined by the Contractor.
 - 2. Floor slab forms and embedments prior to placing concrete.
 - 3. Structural steel frame and roof deck prior to placing roofing insulations.
 - 4. Masonry and utility rough-in while in progress.
 - 5. Gypsum board (interior) upon completion.
 - 6. Ceiling light fixtures, HVAC ducting, diffusers and ceiling suspension system prior to installing lay-in ceiling panels.
 - 7. Final inspection (punch list development), electrical, mechanical, HVAC, outside finish work and run-in of all equipment.
 - 8. Completion verification inspection.
- D. Lack of approved submittals will be grounds for refusal by the Construction Inspector to conduct an inspection at a scheduled hold point set forth above. Any delays or additional costs accrued by Contractor as a result of the inspector's refusal to conduct an inspection due to lack of approved submittals shall be solely to the Contractor's account.
- E. Contractor shall keep the Construction Inspector informed concerning the work status and projected work schedule through regular communications. The Construction Inspector shall be notified by the Contractor in writing 10 to 14 calendar days prior to reaching each hold point previously designated by the Contractor. The Contractor shall reconfirm the inspection date 72 hours (not including Saturday, Sunday and legal holidays) before the scheduled hold point. Rescheduling of a hold point and cancellation shall also be given in writing by the contractor.
- The Contractor shall not cover any work related to the designated hold point until one of the following occurs:
1. Contractor is authorized in writing to proceed after inspection by the Construction Inspector.
 2. The hold point inspection is rescheduled by the Construction Inspector to a later construction event.
 3. The hold point inspection is waived in writing by the Government.
 4. All submittals relating to the work to be inspected have been submitted and returned with an AAP or AAN status (refer to Section 01340, SUBMITTALS), and Contractor has waited one full working day (Monday through Friday) after the date of the scheduled inspection.
- F. Contractor shall submit a written request for Final Inspection (Exhibit 01010-A) 14 calendar days in advance of the planned completion date. After review of the Notice of Completion, the Government may reject the Notice for cause or schedule the Final Inspection. The Government will perform its Final Inspection on

all phases of the work and develop a comprehensive punch list which will be provided to the Contractor.

The Completion Verification Inspection will be scheduled when the punch list items discovered during the Final Inspection have been corrected. The inspector(s) may add new items to the punch list at this inspection.

Contractor is advised that the Government will not accept the work until the Government determines substantial completion has been achieved. Therefore, to minimize its risk of assessment of Liquidated Damages, the Contractor should schedule its work to be substantially complete in time to allow Final Inspection, punch list work, and Completion Verification Inspection to occur in advance of the Contract Completion Date.

- G. Nothing in this Section shall be construed to limit the Government's right to inspect the work at any time.

END OF SECTION

(On Contractor Letterhead)

NOTICE OF COMPLETION

Effective at (time) hours on (date) work described under CONTRACT NO. 50WCNAXXXXXX, Construction of the (location) Weather Forecast Office for Department of Commerce/NOAA, will be substantially and usably complete with the following exceptions: (none) or (describe remaining work items). We request that the Final Inspection be arranged as soon as possible after the above date.

By: (Name of Contractor's Representative)

 (Title of Contractor's Representative)

SECTION 01012

WORK BY OTHERS

PART 1 - GENERAL (see FAR 52.236-8)

- 1.1 SCOPE. The following work related to this contract will be performed by others: (See paragraph 3.2 for fees paid by Contractor.)
- A. Installation of electrical service.
 - B. Installation of telephone equipment and wiring.
 - C. Connection to existing water line and installation of meter.
 - D. Furnishing of certain equipment and materials identified in Section 01018, GOVERNMENT FURNISHED EQUIPMENT and Section 01020, GOVERNMENT FURNISHED MATERIAL and Section 01020, GOVERNMENT FURNISHED MATERIAL.

PART 2 - PRODUCTS

(None are required by this Section.)

PART 3 - EXECUTION

- 3.1 SERVICES, COORDINATION, AND SCHEDULE. Contractor shall plan, schedule, and coordinate its work with work by others to assure that all requirements for operational utilities and services at project completion are satisfied.
- A. Public Service Company of Colorado, represented by Mr. John Salazar, telephone no. (303) 244-2783, will provide and install the new electrical service, excluding work elements that are the responsibility of the Contractor under this contract, as shown on the drawings. See Section 16000, ELECTRICAL.
 - B. U.S. West, represented by Mr. Leon Peach and Ms. Linda Hill, telephone no. (303) 244-4964, will provide, install, and terminate the telephone service excluding work elements that are the responsibility of Contractor under this contract, as shown on the drawings.
 - C. City of Grand Junction and Airport Authority, represented by Mr. Don Newton, P.E. and Mr. Mike Sutherland, telephone no. (303) 244-1559 and/or (303) 244-9120, will provide and install the water meter, meter box and the service tap to the existing water line.

3.2 PAYMENT OF FEES AND OTHER COSTS

- A. Utility services other than telephone: Fees and other costs imposed by the utility service provider(s) relating to the permanent or temporary installations shall be paid for by the Contractor and included in the total contract fixed price. This includes, but is not necessarily limited to, the fees and other costs associated with the work by others described in Paragraph 3.1 of this Section. The Contractor shall submit copies of invoices and support documentation identifying the nature and amount of any charges imposed by the service provider(s).

- B. For telephone service: All fees and other costs imposed by the telephone company shall be paid by the Government and are outside the scope of this contract and shall be excluded from the contract fixed price.

END OF SECTION

SECTION 01015

CONTRACTOR USE OF PREMISES

PART 1 - GENERAL (see FAR 52.236-7, FAR 52.236-9, FAR 52.236-10, and FAR 52.236-12)

- 1.1 SCOPE. Contractor use of premises as shown on the drawings or required by other sections of these specifications, including site access roads, project area, and adjacent areas as required to perform the work under this contract shall be limited to use by its representatives, suppliers, subcontractors, and employees.

PART 2 - PRODUCTS

(None are required by this Section.)

PART 3 - EXECUTION

- 3.1 TRANSPORTATION FACILITIES. Contractor's vehicles, vehicles belonging to Contractor's subcontractors and to employees of the Contractor and subcontractor entering upon the premises shall use only the access route shown on the drawings. Contractor shall not permit vehicles to park on any roads or road shoulders or other area outside property boundaries.
- 3.2 SITE CLEANUP. Contractor shall ensure that the project area and any areas designated for Contractor laydown or parking are maintained in a clean and safe condition.
- A. Cleanup shall be conducted at least daily. Any trash, debris, or material which may originate from Contractor activities shall be retrieved, picked up, and disposed of by the Contractor, whether on-site or blown or carried off-site.
- B. At least daily, Contractor shall remove all rocks, dirt or mud tracked onto the access road by reason of Contractor's operation.

END OF SECTION

SECTION 01016

OCCUPANCY BY OWNER

PART 1 - GENERAL (see FAR 52.236-11 and FAR 52.246-12)

- 1.1 SCOPE. During the course of the work, and prior to final acceptance, the Government may elect to occupy and operate all or part of the project. Such occupancy shall be deemed "beneficial occupancy" and the Contractor will be advised in writing of such an election by the Government.

PART 2 - PRODUCTS

(None are required by this Section.)

PART 3 - EXECUTION

- 3.1 BENEFICIAL OCCUPANCY. In the event the Government elects to take beneficial occupancy and so advises the Contractor, the Government will schedule an inspection for the purpose of developing a listing of any construction deficiencies in that portion of the project which is to be occupied. Contractor shall participate in the scheduled inspection for beneficial occupancy. The resulting list of deficiencies shall be corrected by the Contractor prior to final acceptance.
- 3.2 WARRANTY, MAINTENANCE. Upon acceptance of work for purposes of beneficial occupancy, the following will occur for the part occupied: a) the warranty of construction period will commence, and b) care, custody, control and maintenance will be assumed by the Government.
- 3.3 FINAL ACCEPTANCE. Acceptance of work for purposes of beneficial occupancy does not constitute final acceptance of the work. Final acceptance, as defined by FAR 52.246-12, shall occur upon completion of the entire work under the contract.

END OF SECTION

SECTION 01018

GOVERNMENT FURNISHED EQUIPMENT

PART 1 - GENERAL

- 1.1 SCOPE. The following items of Government furnished equipment (GFE) will be furnished to the Contractor on board public conveyance at the jobsite:
- A. Permanent Exterior Nonilluminated Signage (sign) as described in Section 10445, SPECIALTY SIGN INSTALLATION.
 - B. Packaged Air Conditioners (PACs), two each as described in Section 15700, PACKAGED AIR CONDITIONER SYSTEMS INSTALLATION.
 - C. Diesel Driven Generator (DDG) set, as described in Section 15800, DIESEL DRIVEN GENERATOR INSTALLATION.
 - D. Double wall, above ground storage tank (TANK) as described in Section 15850, DIESEL FUEL STORAGE TANK SYSTEM INSTALLATION.
 - E. Uninterruptible Power Supply (UPS), as described in Section 16900, UPS INSTALLATION.
- 1.2 CONTRACTOR'S WORK. The Contractor's work includes, but is not limited to: Off-loading GFE at jobsite; receiving, inspecting and reporting; storage; installation connection, start-up, and testing as required for each item of GFE.
- 1.3 SUBMITTALS. Submit the following to the Government in accordance with Section 01340, SUBMITTALS. Submittals are for approval.
- A. Bills of Lading: Signed by Contractor with any apparent damage noted on bill of lading
 - B. Piece-Check Inventory: Review of packing list and report overages, shortages, and/or damage
 - C. Damage Report: Required at any time damage is discovered by Contractor
 - D. GFE Receiving/Acceptance Notice: Completed and signed by Contractor (Exhibit 01018-A)

PART 2 - PRODUCTS

(None are required by this Section.)

PART 3 - EXECUTION

- 3.1 INSTALLATION. Contractor will be furnished the manufacturer's standard installation and operations manual for all GFE except the sign. Final testing and installation inspection of the UPS and PAC system(s) only will be performed by the equipment supplier at no cost to the Contractor. Contractor shall be responsible for obtaining any additional information or assistance it deems necessary in order that GFE is properly installed and checked out, as required on the drawings and elsewhere in this specification.
- 3.2 DELIVERY SCHEDULE. Government approved Contractor's construction schedule shall show the desired jobsite delivery date of GFE. This date shall not be earlier than 120 calendar days after the Government's receipt of an acceptable schedule from the contractor. The delivery date of GFE shall be within twenty (20) calendar days (earlier or later) of the desired jobsite delivery date. Actual delivery shall occur between 8:00 AM and 4:00 PM, Monday through Friday, holidays excepted.
- 3.3 DELIVERY. Contractor shall provide all labor, equipment and supervision necessary to off-load GFE from an open flatbed truck/trailer or closed van. Contractor shall check all deliveries of GFE at the time of delivery to insure that all packages, crates and pallets listed on the shipper's bill of lading are delivered. If Contractor observes shipping damage, it shall note this on the shipper's bill of lading before it acknowledges receipt of the delivery. In the event of delivery shortage or shipping damage, Contractor shall immediately notify the ACOTR by telephone, and confirm in writing. Pending instructions from the Government, Contractor shall store the damaged items in a dry and secure manner.
- 3.4 NOTIFICATION OF DELIVERY. Contractor shall within seven (7) calendar days after receipt, forward to the ACOTR, the shipper's bill of lading and the GFE Receiving/Acceptance Notice (Exhibit 01018-A), both bearing Contractor's signature acknowledging receipt of the delivery. Included with this bill of lading shall be a piece-check inventory of all items of GFE shown on the manufacturer's packing list accompanying the shipment. Any overages, shortages or damages noted shall be documented by Contractor and included with this inventory.
- 3.5 STORAGE. Contractor shall provide dry and secure storage, and shall be responsible for the care, custody and control of GFE until it is incorporated into the work and accepted by the Government. Protection during periods of storage and construction shall include but not be limited to a single layer of minimum 6 mil polyethylene over all exterior surfaces. The polyethylene membrane shall be secured in place with tape. All edges of polyethylene sheets shall be overlapped three inches minimum and taped. Protection shall be adequate to prevent any damage. Protection shall be waterproof and dustproof.

- 3.6 DAMAGE. In the event Contractor damages, or later discovers damages or shortages in GFE, it shall immediately notify the ACOTR by telephone and promptly confirm and document the damage or shortage in writing. Contractor shall not attempt to repair such damage, or replace any missing parts, without the written consent of the Contracting Officer. Contractor shall pay for the cleaning or repair of GFE, if such cleaning or repair is required due to improper handling or protection of GFE after delivery to the Contractor.

END OF SECTION

GFE RECEIVING/ACCEPTANCE NOTICE

ITEM: _____ CONSTRUCTION CONTRACT NO. _____

DATE RECEIVED: _____ SITE LOCATION: _____

TIME RECEIVED: _____

CARRIER: _____

DRIVER'S NAME: _____

BILL OF LADING # _____

PACKING LIST RECEIVED: Y N _____

PARTS COMPLETE: Y N _____

MISSING PARTS: _____

VISUAL INSPECTION: DAMAGE (ATTACH ADDITIONAL SHEETS AS REQUIRED TO DESCRIBE)
OVERAGE, SHORTAGE, AND DAMAGE.

PACKAGING Y N EXTENT: _____

PARTS Y N _____

NOTE: IF DAMAGED, CALL RCI OR CA IMMEDIATELY AND FORWARD DETAILED DAMAGE REPORT.

STORAGE:

LOCATION: ONSITE

OFFSITE ADDRESS: _____

DRY AND SECURE Y N

ADDITIONAL INFORMATION:

ACCEPTANCE: I certify that articles and/or services annotated above have been received, inspected, and accepted in accordance with the terms of this contract.

RECEIVED BY _____ DATE _____

DFM0040 3/31/89

SECTION 01020

GOVERNMENT FURNISHED MATERIAL

PART 1 - GENERAL (see I.2 and I.3)

- 1.1 SCOPE. The following item(s) of Government-furnished material (GFM) will be furnished to the Contractor on board public conveyance at the jobsite:
- A. Self-supporting Tower (install per manufacturer's installation instructions; see Dwg. C01 for location and drawing S14 for foundation construction details).
- 1.2 CONTRACTOR'S WORK. The Contractor's work includes, but is not limited to: Off-loading GFM at jobsite; receiving; inspecting and reporting; storage; installation as required for all GFM.
- 1.3 SUBMITTALS. No submittals are required for this Section, however, the Contractor is required to note receiving, inspection, and installation status on Contractor's Daily Reports.

PART 2 - PRODUCTS

(None are required by this Section.)

PART 3 - EXECUTION

- 3.1 INSTALLATION. Contractor will be furnished the manufacturer's standard installation instructions for all GFM. Contractor shall be responsible for obtaining any additional information or assistance it deems necessary in order that GFM is properly installed, as required on the drawings and elsewhere in this specification.
- 3.2 DELIVERY SCHEDULE. Government approved Contractor's construction schedule shall establish the desired jobsite delivery date of GFM. This date shall not be earlier than 90 calendar days after the Government's receipt of an acceptable schedule from the contractor. The delivery date of GFM shall be within 20 calendar days (earlier or later) of the desired jobsite delivery date. Actual delivery shall occur between 8:00 AM and 4:00 PM, Monday through Friday, holidays excepted.
- 3.3 DELIVERY. Contractor shall provide all labor, equipment and supervision necessary to off-load GFM from an open flatbed truck/trailer or closed van. Each 10 foot section of the disassembled tower weighs approximately 70 lbs. Refer to detail(s) on drawing S14 for overall tower dimensions. Contractor shall check all deliveries of GFM at the time of delivery to insure that all components listed on the shipper's bill of lading

are delivered. If Contractor observes shipping damage, it shall note this on the shipper's bill of lading before it acknowledges receipt of the delivery. In the event of delivery shortage or shipping damage, Contractor shall immediately notify the ACOTR by telephone, and confirm in writing. Pending instructions from the Government, Contractor shall store the damaged items in a dry and secure manner.

- 3.4 NOTIFICATION OF DELIVERY. Contractor shall note on Daily Activity Reports current status of GFM, including delivery, inspection, and installation.
- 3.5 STORAGE. Contractor shall provide dry and secure storage, and shall be responsible for the care, custody and control of GFM until it is incorporated into the work and accepted by the Government.
- 3.6 DAMAGE. In the event Contractor damages, or later discovers damages or shortages in GFM, it shall immediately notify the ACOTR by telephone and promptly confirm and document the damage or shortage in writing. Contractor shall not attempt to repair such damage, or replace any missing parts, without the written consent of the Contracting Officer. Contractor shall pay for the cleaning or repair of GFM, if such cleaning or repair is required due to improper handling or protection of GFM after delivery to the Contractor.

END OF SECTION

SECTION 01025

MEASUREMENT AND PAYMENT

PART 1 - GENERAL (see FAR 52.232-5 and FAR 52.232-27)

- 1.1 SCOPE. The procedures applicable to the measurement of work accomplished and payment to Contractor for both periodic progress payments and final payment are described in this Section.
- 1.2 METHODOLOGY. Requests for progress payments and final payment shall be submitted by Contractor and shall be validated by the Construction Inspector to verify that the work for which payment is sought has been performed.
- A. Payments by the Government shall be made in accordance with the payments clause of this contract.
- B. Contractor shall specify a cut-off date, to be the same date each pay period, for determining progress for invoicing purposes.
- 1.3 SUBMITTALS. Submit the following to the Government in accordance with Section 01340, SUBMITTALS. Submittals are for the record or approval, as indicated.
- A. Schedule of Prices (Exhibit 01025-A) shall be submitted within seven (7) calendar days after contract award and prior to mobilization at the project site, for approval.
- B. INVOICE SUBMITTALS. Submit the following monthly:
1. Invoice on Contractor's letterhead with Taxpayer I.D. Number for approval (3 copies).
 2. Schedule of Prices updated with progress percentages for approval (3 copies).
 3. Stated Construction Schedule for approval (3 copies).
 4. Stated Project "S" Curve for approval (3 copies).
 5. Record drawing certification for the record (3 copies):
 6. Certification required by Clause G.2 (FAR 52.232-5) for the record (3 copies).
 7. Certification that required copies of subcontractors' proofs of insurance are complete and current for the record. Refer to FAR 52.228-5 (3 copies).
 8. Release of Claims (Exhibit 01025-B) for the record (with final invoice only) (3 copies).

PART 2 - PRODUCTS

(None are required by this Section.)

PART 3 - EXECUTION

3.1 SCHEDULE OF PRICES. Schedule of prices shall be as specified herein.

- A. The sum of the prices shall equal the total contract fixed price. The Schedule of Prices shall reflect each work activity comprising the work to be performed. As a minimum, activities shall correspond to the same level of detail as shown in the Schedule of Prices (Exhibit 01025-A). Percent progress per activity shall represent the current status, as shown on the construction schedule and verified by the Construction Inspector.
- B. The Contracting Officer may approve, disapprove or require revisions to the Schedule of Prices. Subsequent revision to the Schedule of Prices must be approved by the Contracting Officer.

3.2 DETERMINATION OF PROGRESS. Contractor and the Construction Inspector shall jointly review all work prior to submission by Contractor of its periodic payment invoice and periodic progress report and seek to report a consensus regarding the percent of total progress achieved during the period. If the Construction Inspector is unable to physically travel to the project site, progress shall be determined by telephone. The invoice shall be submitted for a dollar amount reflecting the percent of progress achieved during the period.

Final determination of progress and payment to be made, whether or not the Contractor and Construction Inspector reach agreement, shall be by the Contracting Officer.

3.3 INVOICING AND PAYMENT. Invoices shall be prepared as specified herein.

- A. In accordance with FAR 52.232-5 the Government will pay for materials and equipment (1) that are, in the opinion of the Government, properly stored and protected onsite, (2) that are manufactured specifically for this project, and (3) that are not commonly stocked and usable on any other project. Paid receipts for material and equipment plus shipping are required with any request for payment prior to installation. Offsite storage at insured locations may be acceptable to the Contracting Officer.
- B. Contractor shall invoice the Government in triplicate on Contractor's letterhead. Invoicing shall be based on the value of specific items in the Schedule of Prices, to which is applied the progress (percent completion) claimed for that item. All invoices shall be supported by a Schedule of Prices (Exhibit 01025-A), stasured Construction Schedule and Project "S" Curve, Taxpayer I.D. Number, and certification that record drawings are complete as of the invoice period.

- C. Contractor shall submit its invoice in triplicate for periodic progress payment to the Contracting Officer via an office to be designated by the Contracting Officer.
- D. If satisfactory progress has not been made, the Contracting Officer may retain a maximum of 10 percent of the amount of the payment until satisfactory progress is achieved. Satisfactory progress will be determined by use of the project status curve, developed by the Contractor in accordance with Section 01310, CONSTRUCTION SCHEDULES.
- E. Engineering submittals are a vital element of material procurement and construction progress. No line item of the Schedule of Values shall be progressed beyond 80% until all submittals relative to that line item have been submitted and returned with either an AAP or AAN status (refer to Section 01340, SUBMITTALS).
- F. The Government will pay the final amount due Contractor under this contract after:
 - 1. Completion, final inspection and acceptance of all work.
 - 2. Presentation of a properly executed invoice.
 - 3. Presentation by Contractor of a release of all claims against the Government arising by virtue of this contract, other than claims, in stated amounts, that the Contractor has specifically excepted from the operation of the release. Exhibit 01025-B shall be the form of this release.
 - 4. Deductions of any sums owed the Government and permitted to be offset by law.

END OF SECTION

EXHIBIT-01025-A
SCHEDULE OF PRICES

Contract No.: _____ Period Starting: _____
 Contractor: _____ Period Ending: _____
 Location: GRAND JUNCTION, COLORADO

DIV. NO.	DESCRIPTION OF WORK	LUMP SUM VALUE \$	PROGRESS			VALUE TO DATE \$
			THIS PERIOD %	PREVIOUS %	TO DATE %	
01	Mobilization (not to exceed 2% of the Contract Price) Bonds (Actual Cost)					
02	Sitework Rough Grading Foundation Excavation Asphalt Paving and Marking Fine Grading Landscaping Yard Piping					
03	Footings & Foundations Building Slabs on Grade Elevated Slabs, Walls Miscellaneous Cast-in-place, Sidewalks, Pre-cast items					
04	Masonry					
05	Structural Framing Miscellaneous Metal Items					
06	Rough Carpentry, Wood Finish Carpentry, Casework Plastics					
07	Insulation Roofing Sealing and Flashing, and Sheet Waterproofing Preformed Metal Siding (Trash Enclosure Only)					
08	Doors, Frames, and Hardware Windows, Glass and Glazing					

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EXHIBIT-01025-A
SCHEDULE OF PRICES

Contract No.: _____ Period Starting: _____
 Contractor: _____ Period Ending: _____
 Location: GRAND JUNCTION, COLORADO

DIV. NO.	DESCRIPTION OF WORK	LUMP SUM VALUE \$	PROGRESS			VALUE TO DATE \$
			THIS PERIOD %	PREVIOUS %	TO DATE %	
09	Gypsum Wallboard System Acoustical Ceiling Flooring (Tile) Flooring (Carpeting) Flooring (Resilient) Painting and Wallcovering					
10	Access Flooring Toilet Partitions and Accessories Metal Lockers Fire Extinguishers and Cabinet Sign Installation Flagpole Miscellaneous Items					
12	Venetian Blinds					
15	Building Plumbing (to 5' outside building) HVAC Equipment (all Heaters, Humidifiers, Piping) HVAC Air Handling Units/ Condensers (include piping) HVAC Air Distribution System (ductwork, insulation) HVAC Temperature Controls Air Balancing DDG (Installation and Start-up) Diesel Fuel Storage Tank PAC (Installation only)					

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EXHIBIT-01025-A
SCHEDULE OF PRICES

Contract No.: _____ Period Starting: _____
 Contractor: _____ Period Ending: _____
 Location: GRAND JUNCTION, COLORADO

DIV. NO.	DESCRIPTION OF WORK	LUMP SUM VALUE \$	PROGRESS			VALUE TO DATE \$
			THIS PERIOD %	PREVIOUS %	TO DATE %	
16	Electrical Equipment (Panelboards) Conduit Underground Conduit Aboveground Conductor Underground Conductor Aboveground Light Fixtures Wiring Devices Grounding & Lightning Protection UPS (Installation only) Testing (Refer to Spec Section 16000, paragraph 3.12)					

EXHIBIT - 01025-B
RELEASE OF CLAIMS

The undersigned contractor, pursuant to the terms of Contract No. _____
between the United States of America and said contractor for the _____

located at _____

hereby releases the United States from any and all claims arising under or by virtue of said contract or any
modification or change thereof except as follows. (Here list any claims against the Government and the amounts
thereof. If none, so state.)

Witness the signature and seal of the undersigned this _____ day of _____

CONTRACTOR:

(Seal)

(Print or type)

WITNESS:

(Signature)

(Signature)

(Address)

(Official Title)

SECTION 01060

REGULATORY/PERMITTING REQUIREMENTS

PART 1 - GENERAL (see FAR 52.236-7)

- 1.1 SCOPE. The Contractor shall be responsible for compliance with all applicable local, county, state, and Federal codes, rules, laws and regulations, and shall obtain all permits and licenses, pay all charges and fees, and give notices necessary and incident to the lawful execution of the work under this contract unless noted otherwise below:

PART 2 - PRODUCTS

(Except for required permits, licenses and records, no products are required by this Section.)

PART 3 - EXECUTION

3.1 PERMITTING.

- A. The Government and its contractors shall not be required to pay any amount to a state or political subdivision of a state for reviewing plans, carrying out on-site inspections, issuing building permits, and making recommendations.
- B. The Contractor shall provide notices, applications, and meet other standard requests as necessary to cooperate with the state and local agencies normally having jurisdiction on non-federal projects.
- C. The original or a copy of all required permits and licenses shall be maintained at the project site.
- D. Plan reviews by state and local agencies will be obtained by the Government, if required.
- E. Building permit is not required.

END OF SECTION

SECTION 01065

SAFETY

PART 1 - GENERAL (see FAR 52.222-4, FAR 52.236-7, and FAR 52.236-13)

- 1.1 SCOPE. Contractor shall be responsible for compliance with the state and federal Occupational Safety and Health Act (OSHA) requirements when applicable.
- 1.2 SUBMITTALS. Submit the following to the Government in accordance with Section 01340, SUBMITTALS. Submittals are for the record or approval, as indicated.
 - A. Site Safety Representative designation, for the record.

PART 2 - PRODUCTS

(None are required by this Section.)

PART 3 - EXECUTION

- 3.1 CONTRACTOR SAFETY REPRESENTATIVE. Prior to commencement of work at the site, Contractor shall designate in writing the name of its representative who will ensure Contractor compliance with safety requirements.
- 3.2 COMPLIANCE. The Contractor shall comply with the requirements of the OSHA Manual.
 - A. Contractor shall promptly correct any noncomplying work or conditions. Contractor shall be responsible to ensure its work does not affect the safety of the public or employees of the Government. Neither the Government nor its representatives shall bear any responsibility for safety precautions at the project work site. If, however, in the opinion of the Construction Inspector, a life-threatening condition exists, the Construction Inspector will orally (to be confirmed in writing) require the Contractor to immediately suspend work in the affected area until the condition is corrected. Whenever Contractor's operations may create a hazardous condition, it shall at its sole expense, furnish, install and maintain such flagmen, guards, fences, barricades, railings, lights, signs, or other devices necessary to prevent accidents, injury or damage to people and equipment.
 - B. Contractor shall determine the location of the paramedic unit, medical facility or hospital nearest to the project site to be used for medical emergencies. The name, telephone number, location and a route map to these facilities shall be prominently posted at the project site. Telephone numbers of the local fire and police departments shall be prominently displayed.

- 3.3 RECORD KEEPING. Contractor shall maintain all required OSHA records. Records of safety performance shall be available at the project site for inspection upon request of the Government or the state.
- 3.4 DISCOVERY OF UNKNOWN POTENTIALLY HAZARDOUS CONDITIONS AND MATERIALS/SUBSTANCES. In the event conditions, materials, or substances are encountered during the course of the work which cause Contractor to reasonably suspect the presence of asbestos, polychlorinated biphenyl (PCB) or other hazardous materials, Contractor shall cease all work in the affected area immediately and notify the Construction Inspector by telephone. The affected area will be cordoned off in order to prevent access by any personnel. Contractor shall not proceed with further work of any kind in the affected area until instructions are received from the Contracting Officer. Upon identification of the material or substance and receipt of written instructions from the Contracting Officer, the Contractor may proceed only in accordance with the instructions of the Contracting Officer and the applicable code or regulation pertaining to the specific material identified.

END OF SECTION

SECTION 01153

CHANGE PROCEDURE

PART 1 - GENERAL (see FAR 52.243-4)

- 1.1 SCOPE. Contractor shall comply with this procedure in the process of giving notification of change and preparing and submitting a proposal for adjustment due to a desired, perceived or actual change in the work. Changes in the work, or period of performance of the work, may be directed in writing by the Contracting Officer or may be requested by the Contractor. In either case, payment for work accomplished under a modification may not be made until a formal contract modification, incorporating the change into the contract, has been issued and executed. Therefore, it is incumbent upon Contractor to comply fully with this procedure and to expedite the resolution of changes.
- 1.2 CHANGE SUBMITTALS. When requested, Contractor shall submit the following to the Government in accordance with Section 01340, SUBMITTALS:
- A. Proposal cover letter on Contractor's letterhead.
 - B. Detailed price proposal.
 - C. Drawings or other explanatory data.
 - D. Time extension statement with justification if any time extension is requested.
- 1.3 COMPLIANCE. Contractor shall take such measures as are needed to assure familiarity and compliance by its staff with these procedures. If change proposals are incomplete, unclear or ambiguous, or are not supported by adequate documentation, the data will be returned and the Contractor shall resubmit or supplement the proposal as requested by the Government. Delay resulting from Contractor's noncompliance with this procedure shall not in itself constitute the basis for an extension in the time of performance under the contract.

PART 2 - PRODUCTS

(None are required by this Section.)

PART 3 - EXECUTION

- 3.1 PROCESSING CHANGES INITIATED BY THE GOVERNMENT.
- A. The Government will initiate changes only in a writing. The Assistant Contracting Officer's Technical Representative (ACOTR)

may sign any Request for Proposal (RFP). This will establish a Proposed Change (PC) number, by which the change will be identified until such time as it may be incorporated into the contract by formal modification. Formal modification will always be issued on Standard Form SF 30.

- B. Contractor may or may not be authorized to proceed with the changed work pending resolution of changes in the contract price or time of performance. If the work described in the RFP becomes critical to the timely performance of the Contractor's work, a written request for a notice to proceed must be forwarded to the ACOTR immediately. The Contracting Officer will issue any notice to proceed on Standard Form SF 30. This unilateral modification to the contract may be subject to further negotiation regarding price and time for completion. Payment for changed work, covered by an unilateral modification, will not be made until a bilateral modification covering the changed work has been executed.
- C. Contractor shall prepare and submit its proposal for change to include as a minimum:
1. A cover letter referencing the PC number and citing the attachments, if any, which constitute Contractor's total proposal.
 2. A detailed price proposal showing labor, construction equipment, and material quantities and prices at the lowest practical level of each element of the work.
 3. Any drawings, sketches, catalog cuts, samples, certifications or other data required to be submitted by the Government or that is required to fully document Contractor's work under the proposed change.
 4. A statement of the proposed change in the time of completion of the contract, together with all required justification for such a change.
 5. A statement to the effect that there is "no change in price and/or time of completion of the work under this contract as a result of this proposed change," if that is the case.
- D. The Government may accept the Contractor's proposal without negotiation. Alternatively, upon receipt of a proposal which is satisfactory in form, the Government may require negotiation with the Contractor to arrive at a fair and equitable change in the contract price and time of completion. Upon agreement, a contract modification will be issued by the Contracting Officer for Contractor's execution.

- 3.2 PROCESSING CHANGES INITIATED BY THE CONTRACTOR. Should Contractor feel that a change to the work under the contract, or to the contract itself, is necessary or desirable, it shall propose such a change to the Contracting Officer. This proposed change shall include a clear and concise description of the proposed change, along with that information cited in 3.1 C above. Within a reasonable time, the Government will review Contractor's proposal and determine if the proposed change is in the Government's best interest. If so, Contractor will be advised of this and a PC

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number will be assigned to Contractor's proposal. The process of agreement and codification of the price and time of completion for the change is then identical to that in 3.1 above.

- 3.3 PROSECUTING CHANGED WORK. Contractor is cautioned not to proceed with the work described in a proposed change until it is authorized to do so in writing by the Contracting Officer.

END OF SECTION

SECTION 01200

PROJECT MEETINGS

PART 1 - GENERAL

- 1.1 SCOPE. Project meetings will be conducted throughout the period of performance of the contract to enable orderly review during progress of the work and to provide for systematic resolution of problems. Contractor's jobsite supervisor and other responsible Contractor employees shall attend and participate in these meetings. The Contractor representative shall have the authority to commit Contractor to activities under the contract.

PART 2 - PRODUCTS

(None are required by this Section.)

PART 3 - EXECUTION

- 3.1 MEETING LOCATION. To the maximum extent practicable, meetings will be held at or near the project site.
- 3.2 PRECONSTRUCTION MEETING. A preconstruction meeting will be held before Contractor begins any work at the project site. Contractor shall ensure attendance by an individual authorized to sign the contract, its Project Manager, jobsite supervisor and major subcontractors.
- A. Data and information on at least the following topics will be distributed and discussed.
1. Organizations.
 2. Responsibilities and authority of the Administrative Contracting Officer (ACO), Contracting Officer (CO), Assistant Contracting Officer's Technical Representative (ACOTR), and Construction Inspector.
 3. Contract documents, including distribution of required copies of original documents and revisions.
 4. Channels and procedures for communication.
 5. Channels and procedures for submittal and approval of shop drawings, catalog cuts and samples.
 6. Bonds, insurance requirements, permits, and proof of compliance.
 7. Construction schedule.
 8. Invoicing and progress payments.
 9. Field decisions and change orders.
 10. Rules and regulations governing performance of the work.
 11. Procedures for safety, first aid, security, quality control, and housekeeping.
 12. Reports.

- 3.3 PROGRESS MEETINGS. Whenever the Construction Inspector visits the project site, Contractor's jobsite supervisor shall be available to attend a meeting of approximately 1 to 2 hours in duration.
- A. Attendance:
1. To the maximum extent practicable, Contractor shall assign the same person or persons to represent Contractor at project meetings throughout progress of the work.
 2. Subcontractors, materials suppliers, and others may be invited by Contractor to attend those project meetings in which their aspect of the work is involved.
- B. Minimum agenda:
1. Review unresolved items of previous meetings.
 2. Review progress of the work, including status of submittals and approvals.
 3. Identify problems which affect planned progress, and develop corrective measures to regain planned schedule.
 4. Review Contractor's quality control.
 5. Identify next and remaining inspection hold points, and determine an approximate inspection schedule.
 6. Review Contractor's safety.
- 3.4 POST-CONSTRUCTION CONFERENCE. After acceptance of the work, the Government will conduct a post-construction conference to instruct the users of the facility on the operation of building systems. Contractor shall send representatives to provide training and answer questions in the following areas: Contractor's project manager and/or site superintendent for general background issues, Mechanical for HVAC, controls and plumbing, and Electrical for building electrical systems. Contractor's participation will last no longer than a full working day.
- 3.5 TELEPHONE COMMUNICATIONS. It is anticipated that there will be many occasions in the period between Construction Inspector site inspections, when the Construction Inspector and Contractor need to communicate. Contractor shall provide telephone numbers of two responsible Contractor employees. The Construction Inspector will provide Contractor with contact telephone numbers and his travel schedule.

END OF SECTION

SECTION 01310

CONSTRUCTION SCHEDULES

PART 1 - GENERAL (see FAR 52.212-3, FAR 52.212-5, and FAR 52.236-15)

- 1.1 SCOPE. Work included in this Section consists of preparation, submittal, and updating of the project schedules and reports.
- 1.2 SUBMITTALS. Submit the following to the Government in accordance with Section 01340, SUBMITTALS. Submittals are for the record or approval as indicated.
 - A. Proposed construction schedule shall be submitted within five (5) calendar days after receipt of Notice to Proceed, for approval.
 - B. Project status curve shall be submitted within five (5) calendar days after Notice to Proceed, for approval.
 - C. Submit contract Daily Activity Reports to the Government for the record on a daily basis.
 - D. Submit stasured construction schedule and project status curve as backup to progress invoices.

PART 2 - PRODUCTS

(None are required by this Section.)

PART 3 - EXECUTION

- 3.1 CONSTRUCTION SCHEDULE. The construction schedule shall show all work activities for completion of the work to be performed under this contract and will reflect Contractor's general sequential approach to the work. The construction schedule will be in either arrow diagram, precedence diagram, or bar chart format. The minimum level of detail (number of activities) shall include the activities described in the Schedule of Prices (Exhibit 01025-A), the inspection hold points set forth in Section 01010, SUMMARY OF THE WORK, the desired delivery date of Government Furnished equipment and materials set forth in Section 01018, GOVERNMENT FURNISHED EQUIPMENT, and Section 01020, GOVERNMENT FURNISHED MATERIAL, as well as their respective installation, start-up and testing activities. The construction schedule shall demonstrate completion of all work within the period of performance of the contract in a reasonable and achievable manner.

- 3.2 PROJECT STATUS CURVE. The project status curve ("S" shape curve) shall establish the relationship between construction progress versus contract time elapsed. This curve will be used to determine if the Contractor's progress is satisfactory to ensure timely completion.
- 3.3 PERIODIC SCHEDULE UPDATES. Contractor shall support periodic payment requests with an approved construction schedule and project status curve with both marked to indicate progress. While the construction schedule and status curve may undergo periodic revisions as discussed below, the marked versions shall clearly show the progress history through the current invoice period.

When in the opinion of the Government, changes in the work occur that significantly affect the schedule, the contractor shall submit a revised construction schedule and project status curve for approval. The revised construction schedule and project status curve shall be submitted within 10 calendar days after it is requested by the Government. The current approved construction schedule and project status curve shall be used as a baseline for progress reporting.

- 3.4 CONTRACT DAILY ACTIVITIES REPORT. Contractor shall provide a daily record of actions, events and manpower utilized (see Exhibit 01310-A). This report shall be completed and submitted to the Contracting Officer via an office to be designated by the Contracting Officer on a daily basis. Contractor shall transmit reports so that they are received by the Government within 3 days of the date covered by the report. Reports are to be complete and accurately describe actions and events. Attach additional sheets if necessary. Do not hold over a report while seeking additional information. If additional information is needed to make the report complete, submit the report and indicate supplemental information will follow.

END OF SECTION

SECTION 01340

SUBMITTALS

PART 1 - GENERAL (see FAR 52.236-5, FAR 52.236-15, and 52.236-21)

- 1.1 SCOPE. Contractor shall make all submittals, in the quantity and form required by the Submittal Summary (PART III, Section J, Attachment A) to the contract, and revise and resubmit such submittals as necessary to establish compliance with the specified requirements.
- 1.2 SUBMITTAL REQUIREMENTS SCHEDULE. Within five (5) calendar days after notice to proceed, Contractor shall submit to the Contracting Officer for approval a completed Section J, Attachment A Submittal Summary indicating scheduled dates for each submittal required by the Submittal Summary for item number 44 and subsequent.
- A. The Contractor shall submit all submittals identified on Attachment A as "O&M Manual Material" no later than 90 calendar days prior to the original contract completion date of the contract or no later than 90 calendar days prior to scheduled completion, whichever is earlier.

Exception: As built and HVAC Redline drawings shall be submitted at time of acceptance.

PART 2 - PRODUCTS

(Other than the submittals themselves, none are required by this Section.)

PART 3 - EXECUTION

- 3.1 ADMINISTRATIVE SUBMITTAL REQUIREMENTS. Administrative submittals are summarized in Part III, Section J, Attachment A, Items 1 through 43. The schedule for their submission is noted along with an appropriate reference to the section number of the contract where the requirement is defined.
- A. Identification. Accompany each submittal or group of submittals with a transmittal form listing the contents. On at least the first page of each individual transmittal, and elsewhere as required for positive identification, show the submittal number (which shall be numbered in accordance with the Submittal Summary), the project name, location, Contractor name and project number.

3.2 ENGINEERING SUBMITTAL REQUIREMENTS (shop drawings as defined by FAR 52.236-21, Paragraph d). Engineering submittals required by this contract are summarized in Part III, Section J, Attachment A, Item 44 and subsequent.

- A. Contractor's review of submittals. Contractor shall affix its review stamp and shall date and sign each individual submittal, certifying that the item(s) submitted has been reviewed and is in accordance with contract requirements. Any revisions or options selected in manufacturers' literature or catalog drawings which Contractor proposes shall be clearly indicated on the submittal. Exception: Test reports from independent testing firms shall be sent directly to the Government without Contractor review as required in Section 01400, QUALITY CONTROL.

- B. Grouping of submittals. Unless otherwise specified, Contractor shall make submittals in groups containing all associated items to ensure that information is available for checking each item when it is received. Partial submittals may be rejected. Such rejection shall not constitute grounds for a time extension.
 - 1. When possible, submittals shall be grouped by specification section with all requested items submitted at one time. Contractor's transmittal shall note any items from the submitted section remaining outstanding which are intended to be submitted at a later date.
 - 2. Submittals of all interior finishes shall be made in one group.
 - 3. Submittals of all exterior finishes shall be made in one group.

- C. Identification of submittals. Accompany each submittal or group of submittals with a transmittal form showing all information required for identification and checking.
 - 1. On at least the first page of each individual submittal, and elsewhere as required for positive identification, show the submittal number (which shall be numbered in accordance with the submittal schedule), the project name, location, Contractor name and project number.
 - 2. Consecutively number all transmittals. When material is resubmitted for any reason, transmit under a new transmittal form with a new transmittal number. On resubmittals, cite the original submittal and transmittal numbers for reference.
 - 3. Maintain an accurate submittal log for the duration of the work, showing current status of all submittals at all times. Make the submittal log available for Government review upon request.
 - 4. Packages containing submittals shall be marked:
Attn: Engineering Submittals, Project No. EN01.

- D. Review. Submittal comments and/or approvals will be provided to the Contractor within twenty-one (21) calendar days after receipt by the office designated to receive submittals. A submittal as used herein shall mean a shop drawing, as defined by FAR 52.236-21, "...It includes drawings, diagrams, layouts, schematics, descriptive literature, illustrations, schedules, performance and test data, and similar materials furnished by the Contractor to explain in detail specific portions of the work required by the contract...".
1. The following definitions will assist the Contractor in understanding the approval status:
 - a. Approved (AAP). Submittal is approved without comment.
 - b. Approved as Noted (AAN). Submittal is approved provided that the comments shown are followed for fabrication and installation. Typically, this type of approval provides some additional clarification, such as: (i) a reminder of related code or specification requirement affecting installation; (ii) specify a color selection; and/or, (iii) provide an explanation about the desired product. Resubmittal of the document is not required.
 - c. Approved as Noted and Resubmit (ANR). Submittal is approved as discussed in AAN above; however, due to the extent or nature of the comments, Contractor shall incorporate comments and resubmit document within 21 calendar days for final approval. If comments have been correctly interpreted and incorporated, the resubmitted document will be approved. If the comments have not been correctly interpreted and incorporated, the resubmitted document may be DISAPPROVED.
 - d. Disapproved (DIS). Submittal is disapproved for reasons shown on the document. Contractor shall correct problem and submit acceptable document within 21 calendar days.
 - e. Information Only (IO or I/O). Approval of submittal is not required by contract, however it is required/submitted "for the record."
 2. Review and approval of submittals is only for conformance with the design concept of the work. Approval of a specific item shall not indicate approval of an assembly of which the item is a component. Contractor remains liable for accuracy of submittals, dimensions, quantities, and coordination with other trades. Approval is subject to all contract requirements and does not authorize any changes. If a change is inadvertently or purposefully indicated on a submittal, the change shall not be effective until ratified separately by a Contract Modification or Field Adjustment Report.
- E. SUMMARY OF SUBMITTALS. Submittals shall conform to the requirements described herein.
1. Shop Drawings: Contractor shall prepare shop drawings accurately to a scale sufficiently large to show all pertinent aspects of the item and its method of connection to the work. Review comments will be shown on one set of shop drawings to be returned to the Contractor. Contractor shall make and distribute copies as required for its purposes.

2. **Manufacturers' Literature:** Where contents of submitted manufacturers' literature includes data not pertinent to the submittal, clearly show which portions of the contents are being submitted for review.
3. **Samples:** Provide sample(s) identical to the precise article proposed to be provided. Identify as described under "Identification of Submittals" above.
4. **Certificates of Compliance:** Provide certificates of compliance as required by these specifications. Certificates of compliance shall be signed by an official authorized to certify on behalf of a manufacturing company and shall contain 1) name and address of Contractor, 2) project name, 3) reference to this project number, 4) description of product, 5) quantity and date of manufacture.
5. **Installed Equipment Operation and Maintenance Instructions:** Provide manufacturer's Operation and Maintenance Instructions for all mechanical, electrical, pneumatic and electronic equipment incorporated into the work.
6. **Facsimiles:** Facsimiles will not be accepted as submittals.

END OF SECTION

SECTION 01400

QUALITY CONTROL

PART 1 - GENERAL (see FAR 52.236-5 and FAR 52.246-12)

- 1.1 SCOPE. This Section covers Contractor's responsibility to control and document the quality of its work and the work of its subcontractors.
- 1.2 SUBMITTALS. When independent testing and/or inspection are required in other sections, submittals shall comply with the requirements of this Section and Section 01340, SUBMITTALS.
 - A. For approval, submit the name, address, telephone number, qualifications (including references with names and phone numbers), and items to be tested/inspected for each firm the Contractor plans to use. The Contracting Officer's approval of the firm is required prior to Contractor use of any material or construction methods that requires testing/inspection.
 - B. Test reports prepared by the independent testing firm shall be sent directly to the Government by the independent testing firm in the quantity of documents specified in Section 01340, SUBMITTALS, within three calendar days after the test results are determined. Copies provided to the Government are in addition to copies provided to the Contractor.

PART 2 - PRODUCTS

(None are required by this Section.)

PART 3 - EXECUTION

- 3.1 CONTRACTOR INSPECTION AND TESTING. Contractor shall maintain an adequate inspection system and perform such inspections as will ensure that the work performed under the contract conforms to contract requirements.
- 3.2 INDEPENDENT TESTING AND INSPECTION. The testing and/or inspection firm shall meet requirements specified herein.
 - A. Independent testing and inspection, when required by the contract, will be performed by an independent testing and/or inspection firm, hereinafter called "firm", under the authority of a professional engineer, licensed by the state in which the project is located and within the discipline for which the test and/or inspection is being made. The firm shall be Contractor's subcontractor. Unless otherwise specified herein, tests shall be performed in accordance with industry standards, and the results submitted shall be the most recent available.

- B. When material is proposed for use which is specified to be either certified or tested, but cannot be identified with specific certification or test reports, the Construction Inspector may, at his discretion, select random samples from the lot for testing. These samples shall be prepared in accordance with the referenced test specification and furnished by Contractor to the firm at Contractor's expense. The number of samples and tests will be at the discretion of the Government. The cost of testing the samples shall be solely the responsibility of Contractor.
- 3.3 FIELD COMMUNICATIONS. The Regional Construction Inspector will use the following forms to document instructions, clarifications, notice of deficient work, and the like to the Contractor. This shall not be construed as limiting any other appropriate means of communication between the parties. The communications shall not be construed as authorizing work not included in the contract, except as approved corrective work, and shall not in any case constitute a basis for additional payment or time.
- A. Site Instruction (SEPO Form 108) - The form will be used to document minor deficiencies, clarifications, or other instructions.
- B. Non-Compliance Notice (SEPO Form 107) - The form will be used to document significant deficiencies in workmanship and/or material. The form will also document approval of corrective action. Contractor shall submit proposed corrective actions for approval. Contractor shall provide engineering if requested by the Government to show that the proposed corrective action is equivalent to the original requirements. The Government will retain monies from progress payments until the corrective action is approved by the Contracting Officer and the corrective work has been satisfactorily completed. The amount retained shall be determined by the Contracting Officer to be sufficient to accomplish the corrective work including demolition, corrections, rework, and administrative costs.
- 3.4 REQUIREMENTS. The requirements for sampling and testing or inspection are specified in the individual technical divisions of these specifications. Contractor shall maintain a complete and up-to-date file of all quality control documentation at the jobsite.

END OF SECTION

SECTION 01500

CONSTRUCTION UTILITIES

PART 1 - GENERAL (see FAR 52.236-14)

- 1.1 SCOPE. The contractor shall provide all utility services such as electricity, telephone, fuel, water and sanitary services needed throughout the contract until acceptance by the Government of the particular utility system.

PART 2 - PRODUCTS

(Other than utilities, none are required by this Section.)

PART 3 - EXECUTION

- 3.1 WATER. Contractor shall provide all water for construction purposes.
- 3.2 ELECTRICITY. Contractor shall provide necessary properly grounded generators or electrical service, wiring, and lighting.
- 3.3 HEATING. Contractor shall provide fuel and equipment for heating, if required.
- 3.4 TELEPHONE. Contractor shall make necessary arrangements and pay all costs of installation and operation of telephone service to Contractor's office at the site. The telephone shall be available to the Construction Inspector for his use in connection with the work. Any toll calls placed by the Construction Inspector will be charged to a Government supplied credit card.
- 3.5 SANITARY. The Contractor shall furnish and maintain chemical toilets for use by its employees on the project site. Chemical toilets shall be cleaned on a regular basis to insure that odor does not become a nuisance.
- 3.6 MAINTENANCE AND REMOVAL. Contractor shall maintain utilities lines and services as long as needed for safe and proper execution of the work and shall remove any temporary facilities and connections as progress of the work permits.

END OF SECTION

SECTION 01540

SECURITY

PART 1 - GENERAL (see FAR 52.236-9 and FAR 52.245-2)

- 1.1 SCOPE. Contractor shall provide security for Government-furnished equipment, Contractor personnel, work in progress, work completed but not accepted, and Contractor materials, tools, and equipment.

PART 2 - PRODUCTS

(None are required by this Section.)

PART 3 - EXECUTION

- 3.1 PERSONNEL. Contractor shall be responsible for its personnel, its subcontractor's personnel, and its material suppliers while at the work site. This includes, but is not limited to, restricting access to the project site to only those personnel working at or having business upon the project site and to restricting personnel to the designated access road, parking area, laydown area, and the project site. The only exception to this will be when personnel are working on related site systems (e.g., water supply, sewage, electrical supply, and telephone).
- 3.2 WORK IN PROGRESS. Contractor shall be responsible for the protection and safe keeping of all work in progress, prior to the time of occupancy or final acceptance by the Government. At the Contracting Officer's option, work in progress which is damaged shall be repaired or replaced by Contractor.
- 3.3 CONTRACTOR MATERIALS, TOOLS, AND EQUIPMENT. Contractor shall be responsible for the security and protection of its own stored materials, small tools and equipment. Any materials, tools, or equipment which are stolen, unaccounted for, or damaged, and which are required for the progress of the work, shall be replaced promptly by Contractor.
- 3.4 SITE ACCESS. In the event the site is within an area of controlled access, Contractor shall comply with all requirements imposed by the controlling authorities. This shall include, but not necessarily be limited to, working hours, security, work rules and safety.

END OF SECTION

SECTION 01560

TEMPORARY CONTROLS/ENVIRONMENTAL PROTECTION

PART 1 - GENERAL (see FAR 52.236-9 and FAR 52.236-13)

- 1.1 SCOPE. Contractor shall provide temporary traffic controls and environmental protection including, but not limited to, the control of dust, noise, rubbish, and the protection of natural resources.

PART 2 - PRODUCTS

(None are required by this Section.)

PART 3 - EXECUTION

- 3.1 TRAFFIC CONTROL. Contractor shall furnish, install and maintain temporary signs, barricades, lights or other approved devices necessary to direct the flow of traffic around or through the work area. Signs, barricades, lights or other approved devices shall be installed and in operation prior to Contractor starting work that affects the flow of traffic. Any traffic control device that becomes damaged or otherwise unsuitable shall be promptly replaced by Contractor. At the time of final removal, all traffic control devices shall remain the property of Contractor. The area in which they were located shall be restored to its original condition.
- 3.2 DUST CONTROL. Dust resulting from Contractor's work activities shall be controlled by Contractor at all times, including non-working hours, weekends and holidays. Dust resulting from earthwork, use of haul roads, access roads or stockpiling of material shall be controlled with water, palliatives or suppressors or a combination thereof. Dust resulting from work activities inside of buildings shall be controlled by vacuuming, wet mopping, wet sweeping, isolating Contractor's work area from existing operations area or other suitable means. Sandblasting shall be controlled so that resulting dust and sand particles do not become a nuisance.
- 3.3 NOISE CONTROL. Contractor shall comply with all Federal, state and local sound control and noise level ordinances, regulations and laws which apply to the project site. Each internal combustion engine used at the project site or a site related to the project shall be equipped with a muffler of a type recommended by the manufacturer.

- 3.4 RUBBISH CONTROL. Rubbish resulting from Contractor's activities shall be picked up daily from all work locations and placed in suitable containers. These containers shall be emptied at regular intervals and when they become full. Contractor shall not burn any rubbish at the project site. Disposal of rubbish shall be at an approved off-site location and in a manner that complies with state and local laws and regulations. Contractor shall be solely responsible for all costs associated with the collection, removal and disposal of rubbish.
- 3.5 EROSION CONTROL. Provide all control measures necessary to prevent soil erosion and the transport of sediment from the site. Any erosion and damage or sediment accumulation that does occur on the site or adjacent property, as a result of construction operations, shall be repaired.
- 3.6 WEED CONTROL. All weeds and grasses located in areas that are to be improved under this contract, shall be removed, or cut and maintained to a maximum height of 6 inches, from contract notice to proceed until the required improvements are in place.

END OF SECTION

SECTION 01580

PROJECT IDENTIFICATION SIGN

PART 1 - GENERAL

- 1.1 SCOPE. Contractor shall supply and install a project sign, identifying the project, the National Oceanic and Atmospheric Administration, NWS, the Architect / Engineer, and Contractor.

PART 2 - PRODUCTS

- 2.1 SIGN DIMENSIONS/LOCATION. One (1) four-foot by eight-foot project sign as described herein to be located as shown on the drawings.

PART 3 - EXECUTION

- 3.1 SIGN CONSTRUCTION. The project sign shall be constructed as specified herein.
- A. Contractor shall install the project sign within two weeks after Notice to Proceed. The sign shall be of 3/4-inch marine plywood, mounted on two (2) four-inch by four-inch (nominal) posts driven or set 36 inches into the ground. The sign shall carry the wording as shown in Exhibit 01580-A. The sign shall have black lettering on a white background. Decals for the NOAA and SEPO logos will be provided by the Government at the preconstruction conference. The bottom of the sign should be at least four feet above ground level.
 - B. Upon completion of the work and prior to final acceptance, Contractor shall remove and dispose of the sign and restore the sign location to its required condition.

END OF SECTION



NATIONAL WEATHER SERVICE



UNDER CONSTRUCTION
WEATHER FORECAST OFFICE

4"
2"
3"

1 1/2"

GENERAL CONTRACTOR

JAMES JONES

CONSTRUCTION MANAGEMENT
ARCHITECTURAL DESIGN

FLUOR DANIEL, INC.
GOULD EVANS ARCHITECTS, P.A.

1/2" BORDERS
(TYP.)

4' X 8'

PROJECT IDENTIFICATION SIGN LAYOUT

01580-A

EXHIBIT-01580-A

SECTION 01590

FIELD OFFICES

PART 1 - GENERAL

- 1.1 SCOPE. Contractor shall provide a field office, with space for the Construction Inspector.

PART 2 - PRODUCTS

(Field office is the only requirement.)

PART 3 - EXECUTION

- 3.1 PROVISION OF CONSTRUCTION INSPECTOR OFFICE SPACE. Contractor shall provide an office space, within the Contractor's field office, for the Construction Inspector. That office space as a minimum shall include:
- A. An eight-foot by ten-foot heated and lighted office space with a desk, desk chair, side chair, waste basket and janitorial service.
 - B. Reasonable use of Contractor's copy machine, if any, telephone for local or credit card calls only, and Contractor's toilet facilities.
 - C. Whenever the Construction Inspector is not present on site, Contractor may use these facilities for its employees or subcontractors.

END OF SECTION

SECTION 01720

RECORD DRAWINGS

PART 1 - GENERAL (see FAR 52.236-21)

- 1.1 SCOPE. The requirements for recording deviations from the contract drawings are described in this Section.
- 1.2 SUBMITTALS. Submit the following to the Government in accordance with Section 01340, SUBMITTALS. Submittals are for approval.
- A. One set of marked up record drawings shall be submitted to the Contracting Officer at the time of Final Inspection of the work. Should punch list work affect the accuracy of the submitted documents, Contractor shall submit supplemental drawings prior to acceptance of the work.
 - B. Certification stating that record drawings are current as of the period invoiced, as support documentation for each progress invoice.

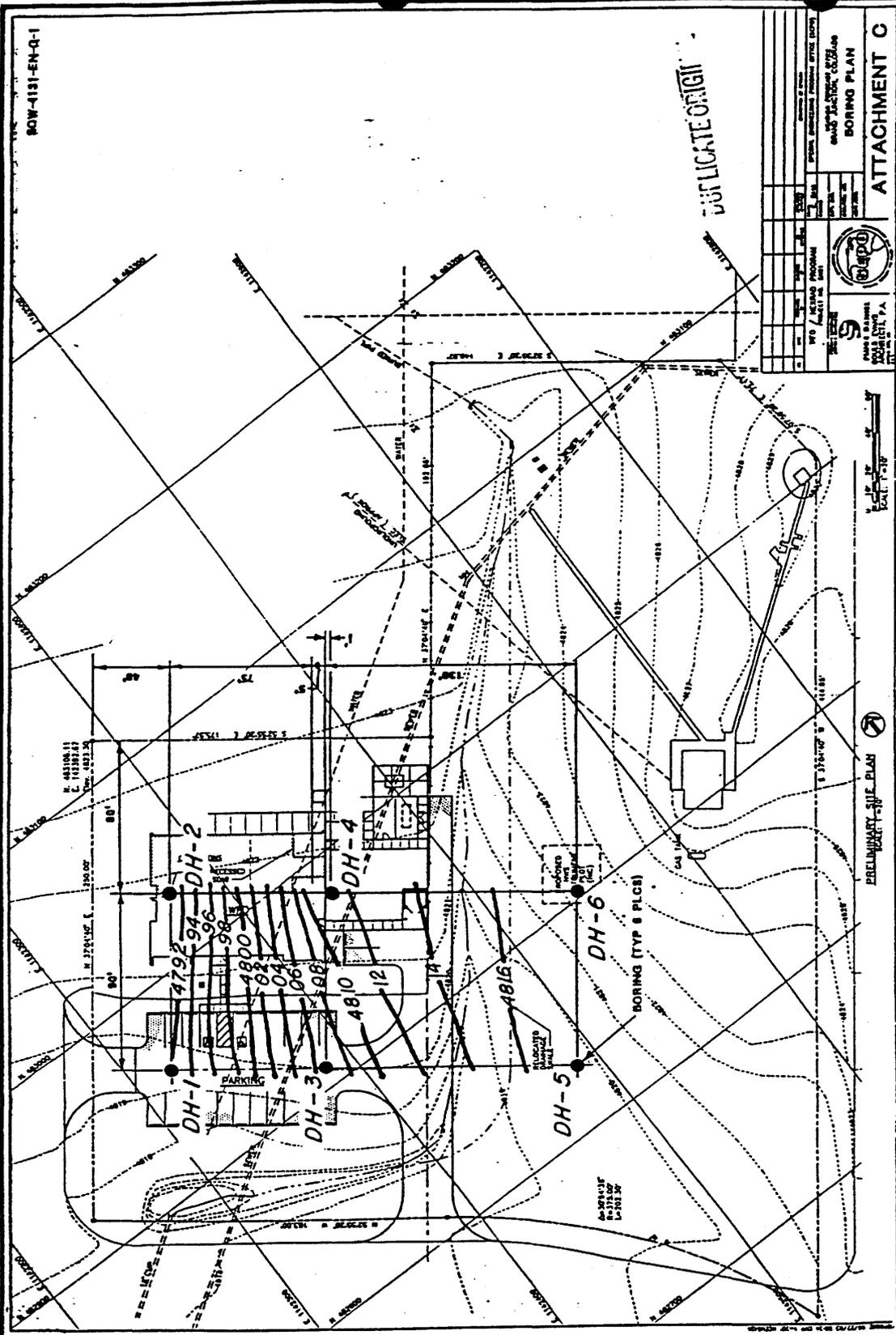
PART 2 - PRODUCTS

- 2.1 JOBSITE RECORD DRAWINGS. Contractor shall maintain at the jobsite, a set of full size current drawings marked to show any deviations which have been made, including buried or concealed construction and utility features which are revealed during the course of construction. Special attention shall be given to recording the horizontal and vertical location of all buried utilities that differ from the contract drawings. Drawings shall also be marked to indicate work changed by contract modifications or no cost field adjustments.

PART 3 - EXECUTION

- 3.1 VARIATIONS FROM CONTRACT DRAWINGS. For buried or concealed construction, drawings shall be marked up for variations of more than 3" horizontally or vertically. For aboveground unconcealed construction, drawings shall be marked for variations of more than 6" horizontally or vertically. Changes by contract modification or field adjustment may be indicated by clouding the drawing and referencing the change. e.g. "Work done per P.C. 4, Mod. No. 1."

END OF SECTION



PROJECT NO. 100-1000 SHEET NO. 100-1000-1	DATE 10/1/80
DRAWN BY J. L. BROWN CHECKED BY J. L. BROWN	SCALE 1" = 100'
TITLE BORING PLAN	ATTACHMENT C

PLATE 1
 DRILL HOLE LOCATION MAP
 AND
 SHALE CONTOURS
 WEATHER FORECAST OFFICE
 GRAND JUNCTION, COLORADO



SUBSURFACE EXPLORATION

W. o. 3511 DRILL HOLE LOG AND PENETRATION RESISTANCE Page of
 Hole No. 1
 Project Weather Forecast Office Ground Elev. 4819
 Location Walker Field Airport Depth to Water Table (Ft.) 28.0
 Drill Contract Western Engineers Date Water Table Gaged 8-16-93
 Hole Logged by RWO Hammer Weight 140 Height of Drop 30 Date 8-9-93

NOTES TYPE & SIZE OF HOLE TYPE OF BIT OR SPOON LOSS OF DRILLING WATER	CORE RECOVERY %	NO. BLOWS	MOISTURE %	SAMPLES FOR TESTING	DESCRIPTION AND CLASSIFICATION OF MATERIAL	DEPTH	PENETRATION RESISTANCE (BLOWS PER FOOT)							
							ACTUAL	EXTRAPOLATED	20	40	60	80		
UC=7320 UW=105.5 TVS=420 PP=9000 LL=27.1 PL=17.5 PI=9.6 % Gravel=4 % Sand=54 % Silt/Clay=42 UW=100.5 TVS=980 PP=9000					Gravel, sandy, silty, some organics, moist, fill material									
			8			Clay, Silty, Sandy, some shale fragments, moist, Probable fill	4							
			36	9	X									
			33	7		Sand, clayey, silty, some gravels, distinctly lensed, layers vary from silty sand to sandy clay. Gravels consist predominantly of subangular to angular sandstone fragments. Firm moist. (SC-SM)	8							
				8										
			22		X		12							
			25	6										
			22	7			16							
			23	11			20							
			16	15			24							
		24				28								
		7				32								
Water Table		21	20		Formational Mancos Shale. Layered, medium firm near upper horizons grading more sound with depth. Layers varying from very clayey to silty and sandy. Some thin limestone layers. Wet near upper horizon to drier with depth. Gypsum in joints and bedding planes. Percent of gypsum decreasing with depth. Bottom of hole at 31 ft.	28								
Note: Hole Drilled with 3.25" I.D. hollow Stem Auger and Continuous Sampler. Continuous Sampler not used in shale.		47				36								
		50/3				40								

EXPLANATION

No. OF BLOWS..... RECORD NUMBER OF BLOWS REQUIRED FOR ONE FOOT PENETRATION IF 50 BLOWS RESULT IN LESS THAN 1 FOOT PENETRATION, RECORD DEPTH PENETRATED; THUS, 50/4 INDICATES 4 INCHES PENETRATION WITH 50 BLOWS.
 DESCRIPTION AND..... DESCRIBE SOIL TYPE, WITH EMPHASIS ON INPLACE OR NATURAL CONDITION.
 CLASSIFICATION OF MATERIAL INCLUDE SOIL CLASSIFICATION GROUP SYMBOL. EXAMPLE: SAND; MEDIUM, CLEAN, MOIST, FIRM, DENSE, UNCEMENTED, (SP)
 PENETRATION..... PLOT AS SHOWN AT RIGHT, WITH DASHED LINES SHOWING THE MATERIALS RESISTANCE CONSIDERED TO BE REPRESENTED BY EACH PENETRATION VALUE.
 UC=Unconfined Compressive Strength (PSF), LL=Liquid Limit (%)
 PL=Plastic Limit (%), PI=Plasticity Index, TVS=Torvane Shear Strength (PSF), PP=Pocket Penetrometer Resistance (PSF)
 UW=Dry Unit Weight (PCF)

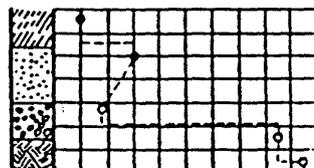


PLATE 2



SUBSURFACE EXPLORATION

W. O. 3511 DRILL HOLE LOG AND PENETRATION RESISTANCE Page of
 Hole No. 2
 Project Weather Forecast Office Ground Elev. 4822
 Location Walker Field Airport Depth to Water Table (Ft.) 30.5
 Drill Contract Western Engineers Date Water Table Gaged 8-16-93
 Hole Logged by RWO Hammer Weight 140 Height of Drop 30 Date 8-5-93

NOTES TYPE & SIZE OF HOLE TYPE OF BIT OR SPOON LOSS OF DRILLING WATER	CORE RECOVERY %	NO. BLOWS	MOISTURE %	SAMPLES FOR TESTING	DESCRIPTION AND CLASSIFICATION OF MATERIAL	DEPTH	LOG	PENETRATION RESISTANCE (BLOWS PER FOOT)							
								ACTUAL	EXTRAPOLATED	20	40	60	80		
LL=49.1 PL=26.9 PI=22.2 % Gravel=26 % Sand=11 % Silt/Clay=15 UW=111.9 TVS=3150 PP=9000 UC=11554 LL=30.1 PL=16.6 PI=13.5 % Sand=13 % Silt/Clay=87 UW=111.6 TVS=1720 PP=6160 Note: Hole drilled with 3.25" I.D. hollow stem auger and continuous sampler. Continuous sampler not used in shale. Water Table <u> </u> UW=112.8					3" Asphalt										
			16		X	Clay, Silty, sandy, some shale fragments, moist, probable fill material.	4								
			14	15		Clay, sandy, silty, with some gravels, Gravels consist predominantly of subangular to angular sandstone fragments. Layers encountered	8								
			14			which vary from silty sand to sandy gravels and cobbles. (CL-SC)	12								
			9	17	X		16								
			10				20								
			10				24								
			7	18			28								
			11	14			32								
			10	17			36								
		19				40									
		19			Formational Mancos Shale. Layered, medium firm near upper horizons grading more sound with depth. Wet near upper horizon to drier with depth. Bottom of hole at 35.5'										

EXPLANATION

No. OF BLOWS..... RECORD NUMBER OF BLOWS REQUIRED FOR ONE FOOT PENETRATION IF 50 BLOWS RESULT IN LESS THAN 1 FOOT PENETRATION, RECORD DEPTH PENETRATED; THUS, 50/4 INDICATES 4 INCHES PENETRATION WITH 50 BLOWS.
 DESCRIPTION AND..... DESCRIBE SOIL TYPE, WITH EMPHASIS ON INPLACE OR NATURAL CONDITION.
 CLASSIFICATION OF MATERIAL INCLUDE SOIL CLASSIFICATION GROUP SYMBOL. EXAMPLE: SAND; MEDIUM, CLEAN, MOIST, FIRM, DENSE, UNCEMENTED, (SP)
 PENETRATION..... PLOT AS SHOWN AT RIGHT, WITH DASHED LINES SHOWING THE MATERIALS RESISTANCE CONSIDERED TO BE REPRESENTED BY EACH PENETRATION VALUE.
 UC=Unconfined Compressive Strength (PSF), LL=Liquid Limit (%)
 PL=Plastic Limit (%), PI=Plasticity Index, TVS=Torvane Shear Strength (PSF), PP=Pocket Penetrometer Resistance (PSF)
 UW=Dry Unit Weight (PCF)

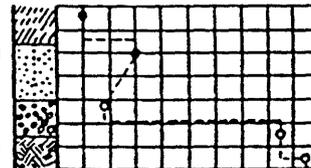


PLATE 3



SUBSURFACE EXPLORATION

W. O. 3511 DRILL HOLE LOG AND PENETRATION RESISTANCE Page of
 Project Weather Forecast Office Hole No. 3
 Location Walker Field Airport Ground Elev. 4820
 Drill Contract Western Engineers Depth to Water Table (Ft.) NF
 Hole Logged by RWQ Hammer Weight 140 Height of Drop 30 Date Water Table Gaged 8-16-93
 Date 8-6-93

NOTES TYPE & SIZE OF HOLE TYPE OF BIT OR SPOON LOSS OF DRILLING WATER	CORE RECOVERY %	NO. BLOWS	MOISTURE %	SAMPLES FOR TESTING	DESCRIPTION AND CLASSIFICATION OF MATERIAL	DEPTH	LOG	PENETRATION RESISTANCE (BLOWS PER FOOT)						
								ACTUAL	EXTRAPOLATED	20	40	60	80	
LL=34.6 PL=20.9 PI=13.7 % Sand=10.0 % Silt/Clay=90.0 UW=83.5 TVS=850 PP=9000 UC=7795 TVS=560 PP=9000 Note: Hole drilled with 3.25" I.D. hollow stem auger and continuous sampler. Continuous sampler not used in shale. UW=117.2 UC=12681					Gravel, sandy, silty, some organics, moist, fill material	2								
		30		8	Clay, sandy, silty, with some gravels, gravels consist predominantly of subangular to angular sandstone fragments Layers encountered which vary from silty sand to sandy gravels and cobbles. (CL-SC)	4								
		44		X		6								
				8		8								
		21		9		10								
			22	7		12								
		98		X	Formational Mancos Shale. Layered, medium firm near upper horizons grading more sound with depth. Layers varying from very clayey to silty and sandy. Some thin limestone layers. Dry to moist Gypsum in joints and bedding planes. Percent of gypsum decreasing with depth.	14								
						16								
						18								
						20								
		91	13	X	Bottom of hole at 21.0 ft.	20								

EXPLANATION

No. OF BLOWS..... RECORD NUMBER OF BLOWS REQUIRED FOR ONE FOOT PENETRATION IF 50 BLOWS RESULT IN LESS THAN 1 FOOT PENETRATION, RECORD DEPTH PENETRATED; THUS, 50/4 INDICATES 4 INCHES PENETRATION WITH 50 BLOWS.

DESCRIPTION AND..... DESCRIBE SOIL TYPE, WITH EMPHASIS ON INPLACE OR NATURAL CONDITION. CLASSIFICATION OF MATERIAL INCLUDE SOIL CLASSIFICATION GROUP SYMBOL. EXAMPLE: SAND; MEDIUM, CLEAN, MOIST, FIRM, DENSE, UNCEMENTED, (SP)

PENETRATION..... PLOT AS SHOWN AT RIGHT, WITH DASHED LINES SHOWING THE MATERIALS RESISTANCE CONSIDERED TO BE REPRESENTED BY EACH PENETRATION VALUE.

UC=Unconfined Compressive Strength (PSF), LL=Liquid Limit (%)
 PL=Plastic Limit (%), PI=Plasticity Index, TVS=Torvane Shear Strength (PSF), PP=Pocket Penetrometer Resistance (PSF)
 UW=Dry Unit Weight (PCF)

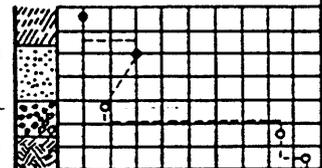


PLATE 4



SUBSURFACE EXPLORATION

W. o. 3511 DRILL HOLE LOG AND PENETRATION RESISTANCE Page of
 Project Weather Forecast Office Hole No. 4
 Location Walker Field Airport Ground Elev. 4820
 Drill Contract Western Engineers Depth to Water Table (Ft.) NF
 Hole Logged by RWO Hammer Weight 140 Height of Drop 30 Date Water Table Gaged 8-16-93
 Date 8-6-93

NOTES TYPE & SIZE OF HOLE TYPE OF BIT OR SPOON LOSS OF DRILLING WATER	CORE RECOVERY %	NO. BLOWS	MOISTURE %	SAMPLES FOR TESTING	DESCRIPTION AND CLASSIFICATION OF MATERIAL	DEPTH LOG	PENETRATION RESISTANCE (BLOWS PER FOOT)													
							ACTUAL	EXTRAPOLATED	20	40	60	80								
LL=27.8 PL=17.2 PI=10.6 % Gravel=1 % Sand=11 % Silt/Clay=88 UW=110.1 TVS=1080 PP=8170 UC=4662 TVS=840 PP=9000 UW=106.0 UC=20740 Note: Hole drilled with 3.25" I.D. hollow stem auger and continuous sampler. Continuous sampler not used in shale. UW=108.8 UC=8918					3" Asphalt															
			14			Gravel, sandy, silty, some clay, some cobbles. Moist. Probable fill material.	2													
				16		Clay, sandy, silty, with some gravels. Gravels consist predominantly of subangular to angular sandstone fragments Layers encountered which vary from silty sand to sandy gravels and cobbles. (CL-SC)	4													
			14		X		6													
				16			8													
			24				10													
				17		Formational Mancos Shale. Layered, medium firm near upper horizons grading more sound with depth. Layers varying from very clayey to silty and sandy. Some thin limestone layers. Dry to moist. Gypsum in joints and bedding planes. Percent of bypsium decreasing with depth.	12													
			80		X		14													
				80	16		X	16												
			95				18													
						Bottom of hole at 21.0 ft.	20													
			95	16	X															

EXPLANATION

No. OF BLOWS..... RECORD NUMBER OF BLOWS REQUIRED FOR ONE FOOT PENETRATION IF
 80 BLOWS RESULT IN LESS THAN 1 FOOT PENETRATION, RECORD DEPTH
 PENETRATED; THUS, 80/4 INDICATES 4 INCHES PENETRATION WITH
 80 BLOWS.

DESCRIPTION AND..... DESCRIBE SOIL TYPE, WITH EMPHASIS ON INPLACE OR NATURAL CONDITION.
 CLASSIFICATION OF MATERIAL INCLUDE SOIL CLASSIFICATION GROUP SYMBOL. EXAMPLE: SAND; MEDIUM,
 CLEAN, MOIST, FIRM, DENSE, UNCEMENTED, (SP)

PENETRATION..... PLOT AS SHOWN AT RIGHT, WITH DASHED LINES SHOWING THE MATERIALS
 RESISTANCE CONSIDERED TO BE REPRESENTED BY EACH PENETRATION VALUE.

UC=Unconfined Compressive Strength (PSF), LL=Liquid Limit (%)
 PL=Plastic Limit (%), PI=Plasticity Index, TVS=Torvane Shear
 Strength (PSF), PP=Pocket Penetrometer Resistance (PSF)
 UW=Dry Unit Weight (PCF)

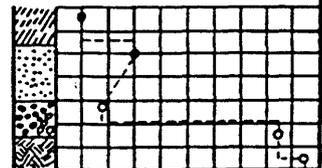


PLATE 5



SUBSURFACE EXPLORATION

w. o. 3511 DRILL HOLE LOG AND PENETRATION RESISTANCE Page of
 Project Weather Forecast Office Hole No. 5
 Location Walker Field Airport Ground Elev. 4820
 Drill Contract Western Engineers Depth to Water Table (Ft.) NF
 Hole Logged by RWQ Hammer Weight 140 Height of Drop 30 Date Water Table Gaged 8-16-93
 Date 8-6-93

NOTES TYPE & SIZE OF HOLE TYPE OF BIT OR SPOON LOSS OF DRILLING WATER	CORE RECOVERY %	NO. BLOWS	MOISTURE %	SAMPLES FOR TESTING	DESCRIPTION AND CLASSIFICATION OF MATERIAL	DEPTH	LOG	PENETRATION RESISTANCE (BLOWS PER FOOT)						
								● ACTUAL	○ EXTRAPOLATED	20	40	60	80	
Note: Hole drilled with 3.25" I.D. hollow stem auger and continuous sampler. Continuous sampler not used in shale. UW=113.9 UC=16351 UW=113.8					Clay, sandy, silty, with some gravels. Layers encountered which vary from silty sand to sandy gravels and cobbles. dry to moist. (CL-SC)	2								
			12		Formational Mancos Shale. Layered, medium firm near upper horizons grading more sound with depth. Layers varying from very clayey to silty and sandy. Some thin limestone layers. Dry to moist. Gypsum in joints and bedding planes. Percent of gypsum decreasing with depth.	4								
		45	13			6								
		50	12			8								
						10								
		45				12								
		38				14								
		46				16								
			51	14		X	18							
		48					20							
		93	13	X	Bottom of hole at 22.0 ft.	20								

EXPLANATION

No. OF BLOWS..... RECORD NUMBER OF BLOWS REQUIRED FOR ONE FOOT PENETRATION IF 50 BLOWS RESULT IN LESS THAN 1 FOOT PENETRATION, RECORD DEPTH PENETRATED; THUS, 50/4 INDICATES 4 INCHES PENETRATION WITH 50 BLOWS.

DESCRIPTION AND..... DESCRIBE SOIL TYPE, WITH EMPHASIS ON INPLACE OR NATURAL CONDITION. CLASSIFICATION OF MATERIAL INCLUDE SOIL CLASSIFICATION GROUP SYMBOL. EXAMPLE: SAND; MEDIUM, CLEAN, MOIST, FIRM, DENSE, UNCEMENTED, (SP)

PENETRATION..... PLOT AS SHOWN AT RIGHT, WITH DASHED LINES SHOWING THE MATERIALS RESISTANCE CONSIDERED TO BE REPRESENTED BY EACH PENETRATION VALUE.

UC=Unconfined Compressive Strength (PSF), LL=Liquid Limit (%)
 PL=Plastic Limit (%), PI=Plasticity Index, TVS=Torvane Shear Strength (PSF), PP=Pocket Penetrometer Resistance (PSF)
 UW=Dry Unit Weight (PCF)

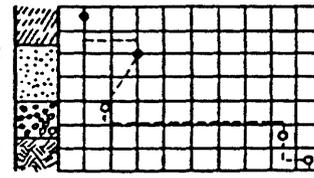


PLATE 6



SUBSURFACE EXPLORATION

W. O. 3511 DRILL HOLE LOG AND PENETRATION RESISTANCE Page of
 Hole No. 6
 Project Weather Forecast Office Ground Elev. 4823
 Location Walker Field Airport Depth to Water Table (Ft.) NF
 Drill Contract Western Engineers Date Water Table Gaged 8-16-93
 Hole Logged by RWO Hammer Weight 140 Height of Drop 30 Date 8-6-93

NOTES TYPE & SIZE OF HOLE TYPE OF BIT OR SPOON LOSS OF DRILLING WATER	CORE RECOVERY %	NO. BLOWS	MOISTURE %	SAMPLES FOR TESTING	DESCRIPTION AND CLASSIFICATION OF MATERIAL	DEPTH	PENETRATION RESISTANCE (BLOWS PER FOOT)				
							LOG	ACTUAL	EXTRAPOLATED		
							20	40	60	80	
UW=112.6 UC=15701 TVS=480 PP=8500					Clay, sandy, silty, with some gravels. Gravels consist predominantly of subangular to angular sandstone fragments. Layers encountered which vary from silty sand to sandy gravels and cobbles. Dry to moist. (CL-SC)	2					
			11			4					
			8			X	6				
			72				8				
UW=104.4 Note: Hole drilled with 3.25" I.D. hollow stem auger and continuous sampler. Continuous sampler not used in shale.		70/6	12		Formational Mancos Shale. Layered, medium firm near upper horizons grading more sound with depth. Layers varying from very clayey to silty and sandy. Some thin limestone layers. Dry to moist. Gypsum in joints and bedding planes. Percent of gypsum decreasing with depth.	10					
						12					
			69			X	14				
			55/6				16				
							18				
			54				20				
			112								
			63								
			66				Bottom of hole at 22.0 ft.				

EXPLANATION

No. OF BLOWS..... RECORD NUMBER OF BLOWS REQUIRED FOR ONE FOOT PENETRATION IF 50 BLOWS RESULT IN LESS THAN 1 FOOT PENETRATION, RECORD DEPTH PENETRATED; THUS, 50/4 INDICATES 4 INCHES PENETRATION WITH 50 BLOWS.

DESCRIPTION AND..... DESCRIBE SOIL TYPE, WITH EMPHASIS ON INPLACE OR NATURAL CONDITION. CLASSIFICATION OF MATERIAL INCLUDE SOIL CLASSIFICATION GROUP SYMBOL. EXAMPLE: SAND; MEDIUM, CLEAN, MOIST, FIRM, DENSE, UNCEMENTED, (SP)

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UC=Unconfined Compressive Strength (PSF), LL=Liquid Limit (%)
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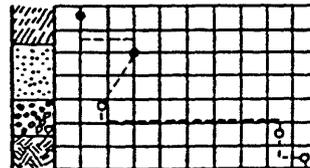
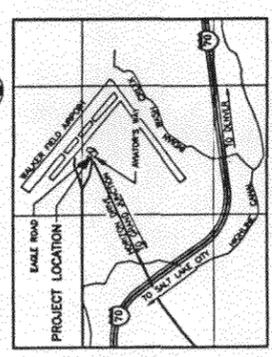
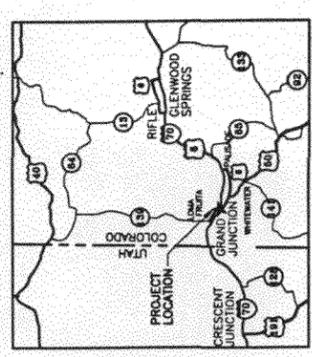
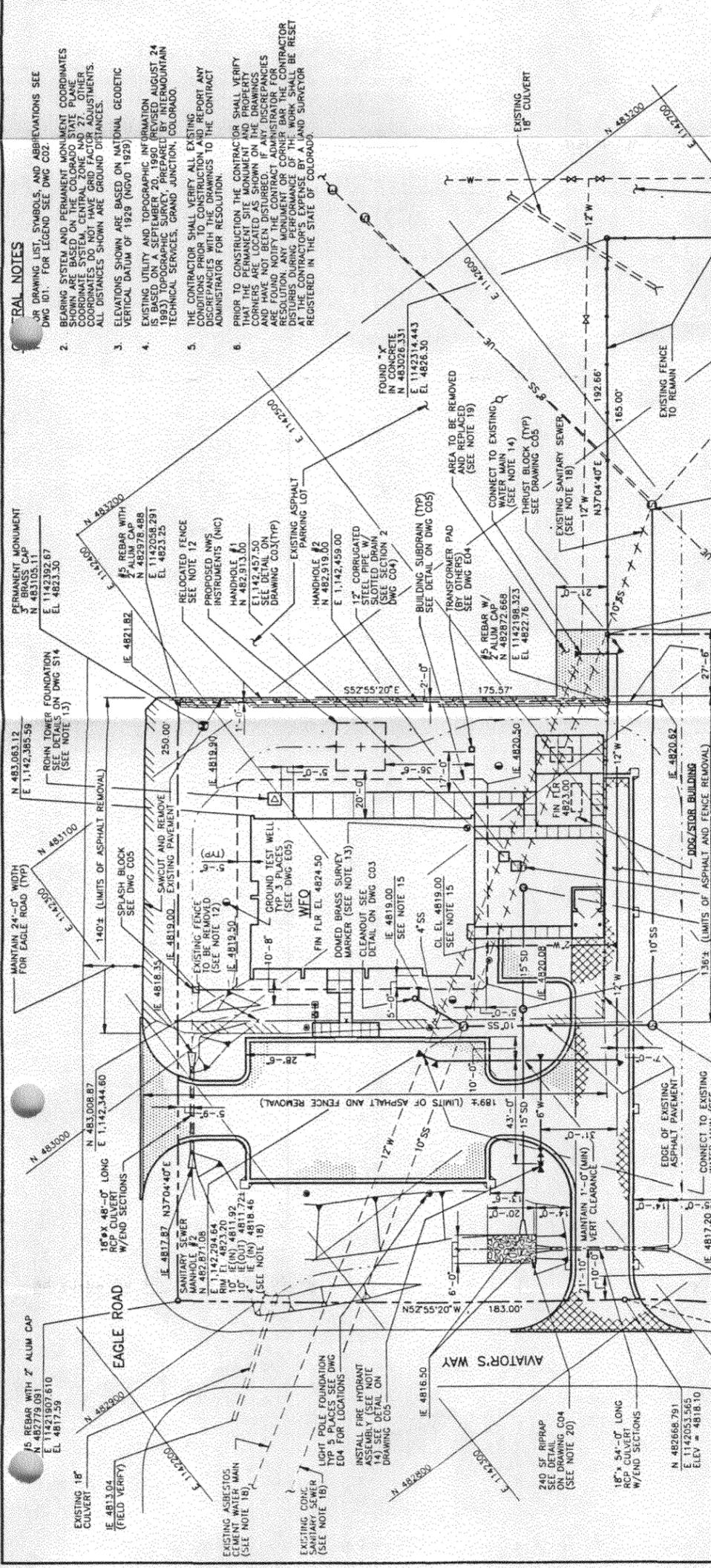


PLATE 7



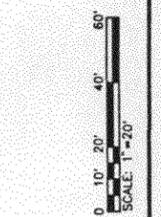
GENERAL NOTES

1. DRAWING LIST, SYMBOLS, AND ABBREVIATIONS SEE DWG 01. FOR LEGEND SEE DWG 02.
2. BEARING SYSTEM AND PERMANENT MONUMENT COORDINATES SHOWN ARE BASED ON THE COLORADO STATE PLANNER 1983 COORDINATE SYSTEM. ALL DISTANCES SHOWN ARE GROUND DISTANCES.
3. ELEVATIONS SHOWN ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 1929).
4. EXISTING UTILITY AND TOPOGRAPHIC INFORMATION RECEIVED FROM THE CITY OF GRAND JUNCTION, COLORADO, TECHNICAL SERVICES, GRAND JUNCTION, COLORADO.
5. THE CONTRACTOR SHALL VERIFY ALL EXISTING REPORT ANY DISCREPANCIES WITH THE DRAWINGS TO THE CONTRACT ADMINISTRATOR FOR RESOLUTION.
6. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL VERIFY THAT THE PERMANENT MONUMENT AND PROPERTY CORNERS ARE LOCATED AS SHOWN ON THE DRAWINGS AND HAVE NOT BEEN DISTURBED. IF ANY DISCREPANCIES ARE FOUND NOTIFY THE CONTRACTOR IMMEDIATELY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ANY DISTURBANCES DURING THE PERFORMANCE OF THE WORK SHALL BE RESET AT THE CONTRACTOR'S EXPENSE BY A LAND SURVEYOR REGISTERED IN THE STATE OF COLORADO.
7. PRIOR TO ACCESS TO THE PROPERTY SHALL BE FROM EAGLE ROAD OR AVIATOR'S WAY ONLY.
8. CONTRACTOR'S PARKING AND LAYDOWN AREAS SHALL BE LIMITED TO THE SPACE WITHIN THE PROPERTY LINE SHOWN ON THIS DRAWING.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE EXISTING STORM SEWERAGE SYSTEM UNTIL THE NEW FACILITY HAS BEEN CONSTRUCTED.
10. UNLESS OTHERWISE SHOWN ALL DIMENSIONS FROM STRUCTURES TO CURBS SHALL BE MEASURED FROM THE BACK DIMENSIONS OF CURB.
11. THE CONTRACTOR SHALL REPLACE EXISTING FENCE DISTURBED DURING CONSTRUCTION AT THE END OF EACH WORKING DAY.
12. THE CONTRACTOR SHALL REMOVE THE EXISTING FENCE AS SHOWN AND PROVIDE NEW FENCE AS SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ANY ADDITIONAL MATERIALS REQUIRED TO PROPERLY ERECT THE RELOCATED FENCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ANY ADDITIONAL MATERIALS PROVIDED AT NO ADDITIONAL COST TO THE CLIENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ANY ADDITIONAL MATERIALS PROVIDED AT NO ADDITIONAL COST TO THE CLIENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ANY ADDITIONAL MATERIALS PROVIDED AT NO ADDITIONAL COST TO THE CLIENT.
13. GEOGRAPHIC COORDINATES (NAD 83) AT THE CENTER OF THE EXISTING LOWER FOUNDATIONS OF THE EXISTING BRASS SURVEY MARKER ARE 39°07'13.38" N, 106°31'25.63" W.
14. THE CONTRACTOR SHALL COORDINATE THE WATER MAIN RELOCATION WITH THE COLORADO PUBLIC UTILITY AUTHORITY. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND PAY ALL FEES REQUIRED TO ESTABLISH WATER SERVICE. THE CONTRACTOR SHALL MAINTAIN EXISTING WATER SERVICE DURING CONSTRUCTION OF THE RELOCATED WATER SYSTEM.
15. SEE DWG M01 FOR CONNECTION TO BUILDING PRING. THE CONTRACTOR SHALL CAP ALL PIPES UNTIL CONNECTIONS ARE MADE.
16. FOR LOCATION OF NEW ELECTRICAL AND TELEPHONE SERVICE SEE DWG E04.
17. THE CONTRACTOR SHALL COORDINATE THE SANITARY SEWER RELOCATION WITH THE COLORADO PUBLIC UTILITY AUTHORITY. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND PAY ALL FEES REQUIRED TO ESTABLISH SEWER SERVICE. THE CONTRACTOR SHALL MAINTAIN EXISTING SEWER SERVICE DURING CONSTRUCTION OF THE RELOCATED SANITARY SEWER.
18. THE CONTRACTOR SHALL REMOVE THE EXISTING 12" ASBESTOS CEMENT WATER MAIN AND THE EXISTING 10" CONCRETE SEWER MAIN AND REPLACE WITH 12" ALUMINUM WATER MAIN AND 10" CONCRETE SEWER MAIN. THE CONTRACTOR SHALL MAINTAIN EXISTING WATER AND SEWER SERVICE DURING CONSTRUCTION OF THE RELOCATED WATER AND SEWER MAINS.
19. THE CONTRACTOR SHALL SAWCUT AND REMOVE EXISTING PAVEMENT, EXCAVATE AND MAKE THE NECESSARY WATER MAIN TAP BACKFILL. THE EXCAVATED TRENCH IN ACCORDANCE WITH THE SPECIFICATIONS, PROVIDE 3 INCHES OF ASPHALT CONCRETE ON 6 INCHES OF AGGREGATE BASE COURSE.
20. CONSTRUCT OUTLET RIP-RAP APRON PER TYPICAL RIP-RAP DETAIL ON DRAWING C04, CENTER APRON ON THE CULVERT AND SWALE. CONTOUR RIP-RAP TO SHAPE OF SWALE.

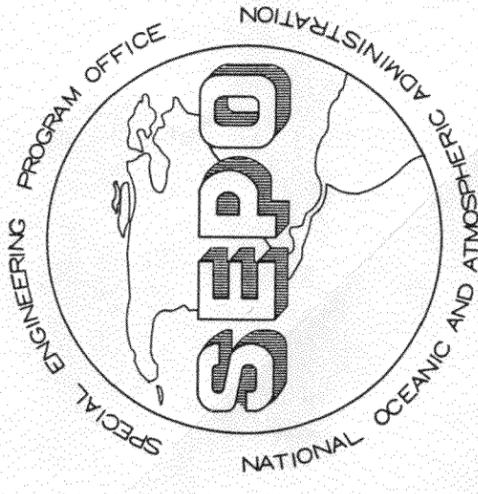
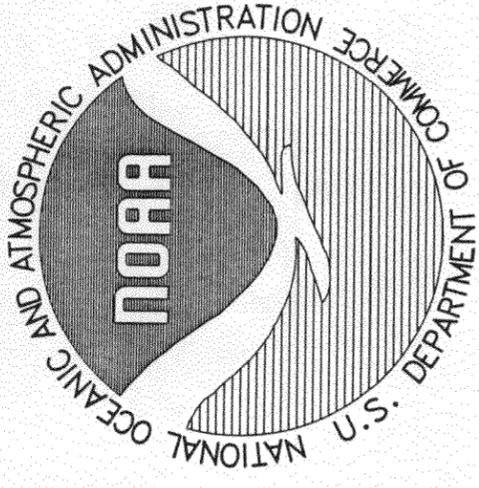


LOCATION MAP

		SPECIAL ENGINEERING PROGRAM OFFICE (SEPO)	
WFO / NEVRAD PROGRAM PROJECT NO. E811		GRAND JUNCTION, COLORADO	
SAFETY SHOULD ALWAYS BE FIRST WITH EVERY TASK		044131-5 C01 EN 0	
FLUOR DANIEL GOLD EVANS ARCHITECTS, P.A.		02/09/14/07	



SITE AND UTILITIES PLAN
 SCALE: 1" = 20'



NOAA/
NATIONAL WEATHER SERVICE
FDI CONTRACT NO. 044131
GRAND JUNCTION, COLORADO

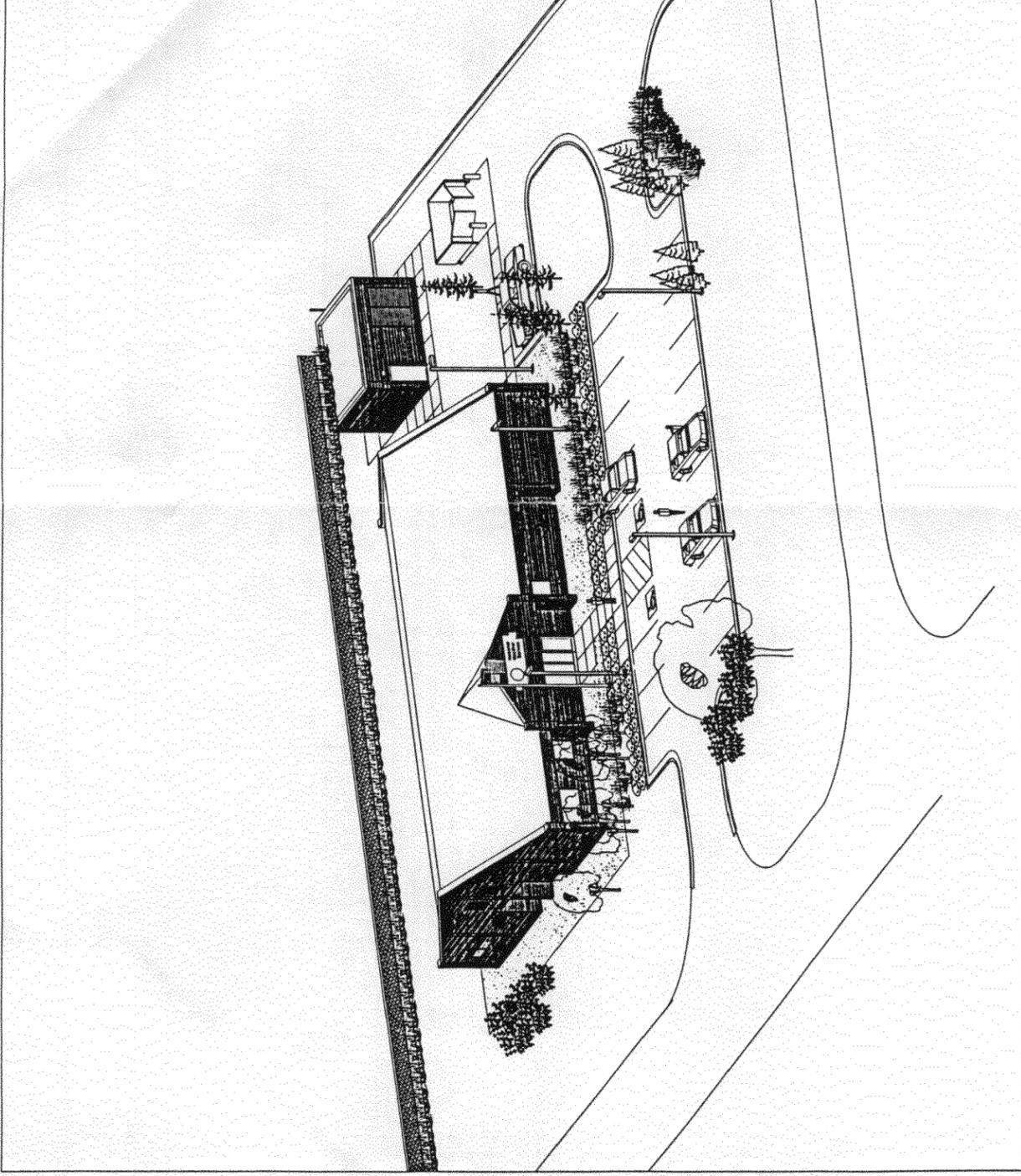
35% DESIGN SUBMITTAL
15 NOVEMBER 1993
DRAWING NO. SKA01 REV. A
PROJECT NO EN01



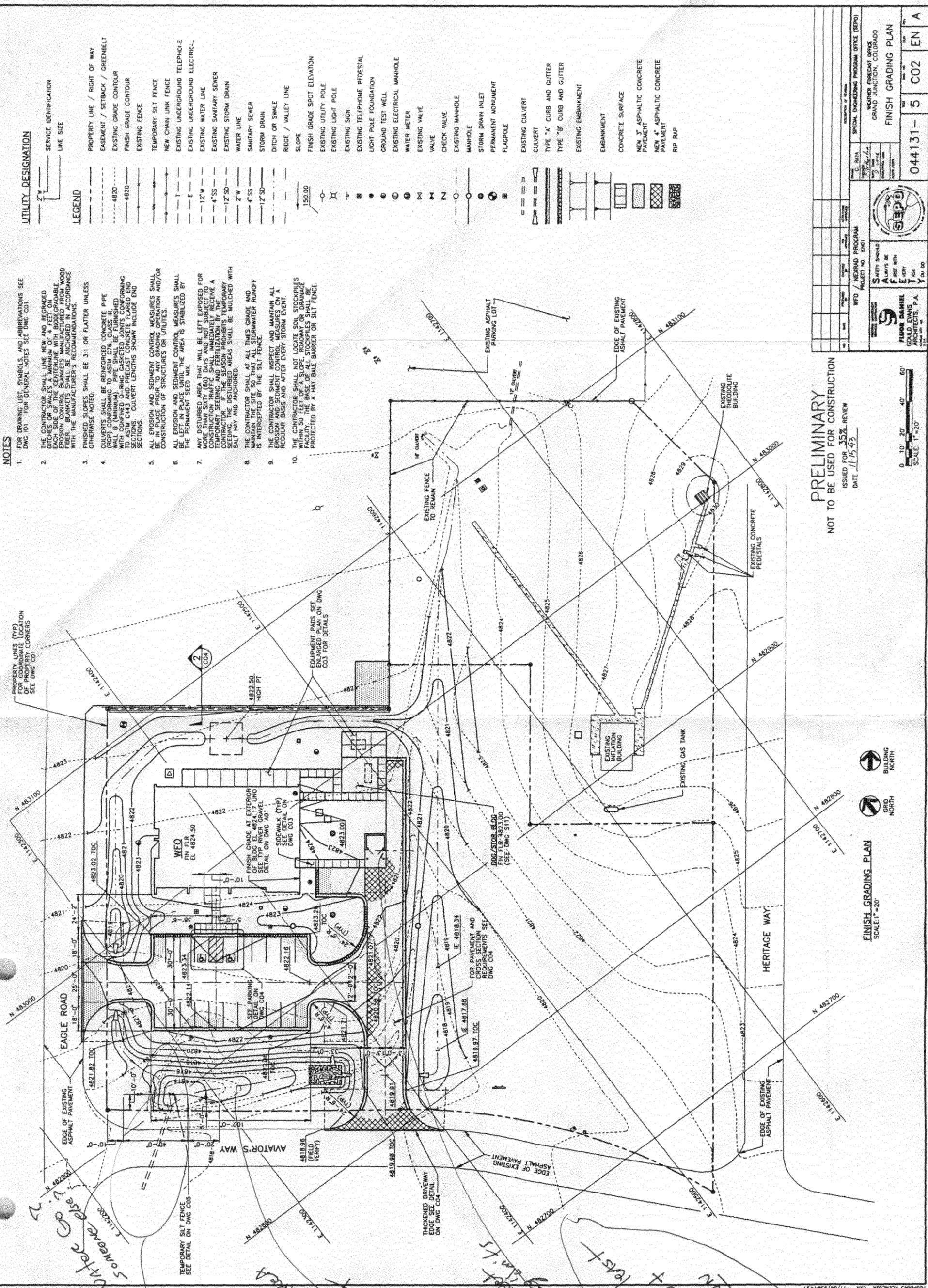
FLUOR DANIEL

GOULD EVANS
ARCHITECTS, P.A.

KANSAS CITY, MISSOURI U.S.A.



WEATHER FORECAST OFFICE



- NOTES**
- FOR DRAWING LIST, SYMBOLS, AND ABBREVIATIONS SEE DWG 001. FOR GENERAL NOTES SEE DWG C01.
 - THE CONTRACTOR SHALL NEW AND REGRADE DITCHES OR SWALES A MINIMUM OF 4 FEET ON EACH SIDE OF THE CENTERLINE WITH BIODEGRADABLE FIBER OR POLYPROPYLENE FIBER BLANKETS SHALL BE ANCHORED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
 - FINISHED SLOPES SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE NOTED.
 - CULVERTS SHALL BE REINFORCED CONCRETE PIPE (RCP) CONFORMING TO ASTM C76, CLASS III, WITH 3" MINIMUM WALL THICKNESS. JOINTS SHALL BE WITH CONFINED O-RING GASKETED JOINTS CONFORMING TO ASTM C443 AND PRECAST CONCRETE FLARED END SECTIONS. CULVERT LENGTHS SHOWN INCLUDE END SECTIONS.
 - ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY GRADING OPERATION AND/OR CONSTRUCTION OF STRUCTURES OR UTILITIES.
 - ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE LEFT IN PLACE UNTIL THE AREA IS STABILIZED BY THE PERMANENT SEED MIX.
 - MORE THAN SIXTY (60) DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC SHALL IMMEDIATELY RECEIVE A TEMPORARY SEEDING AND EROSION CONTROL MEASURES. SEEDING, THE DISTURBED AREAS SHALL BE MULCHED WITH SALT HAY AND ANCHORED.
 - THE CONTRACTOR SHALL AT ALL TIMES GRADE AND MAINTAIN THE SITE SO THAT ALL STORMWATER RUNOFF IS INTERCEPTED BY THE SILT FENCE.
 - THE CONTRACTOR SHALL INSPECT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES ON A REGULAR BASIS AND AFTER EVERY STORM EVENT.
 - THE CONTRACTOR SHALL NOT LOCATE SOIL STOCKPILES WITHIN THE FENCE LINE OF ANY EXISTING OR PROPOSED FACILITY. THE BASE OF ALL STOCKPILES SHALL BE PROTECTED BY A HAY BALE BARRIER OR SILT FENCE.

UTILITY DESIGNATION

2" W
LINE SIZE

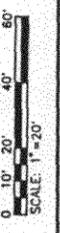
LEGEND

---	PROPERTY LINE / RIGHT OF WAY
---	EASEMENT / SETBACK / GREENBELT
---	EXISTING GRADE CONTOUR
---	FINISH GRADE CONTOUR
---	EXISTING FENCE
---	TEMPORARY SILT FENCE
---	NEW CHAIN LINK FENCE
---	EXISTING UNDERGROUND TELEPHONE
---	EXISTING UNDERGROUND ELECTRIC
---	EXISTING WATER LINE
---	EXISTING SANITARY SEWER
---	EXISTING STORM DRAIN
---	WATER LINE
---	SANITARY SEWER
---	STORM DRAIN
---	DITCH OR SWALE
---	RIDGE / VALLEY LINE
---	SLOPE
---	FINISH GRADE SPOT ELEVATION
---	EXISTING UTILITY POLE
---	EXISTING LIGHT POLE
---	EXISTING SIGN
---	EXISTING TELEPHONE PEDESTAL
---	LIGHT POLE FOUNDATION
---	GROUND TEST WELL
---	EXISTING ELECTRICAL MANHOLE
---	WATER METER
---	EXISTING VALVE
---	VALVE
---	CHECK VALVE
---	EXISTING MANHOLE
---	MANHOLE
---	STORM DRAIN INLET
---	PERMANENT MONUMENT
---	FLAGPOLE
---	EXISTING CULVERT
---	CULVERT
---	TYPE "A" CURB AND GUTTER
---	TYPE "B" CURB AND GUTTER
---	EXISTING EMBANKMENT
---	EMBANKMENT
---	CONCRETE SURFACE
---	NEW 3" ASPHALTIC CONCRETE PAVEMENT
---	NEW 4" ASPHALTIC CONCRETE PAVEMENT
---	RIP RAP

PRELIMINARY
 NOT TO BE USED FOR CONSTRUCTION
 ISSUED FOR 35% REVIEW
 DATE 11/15/13

FINISH GRADING PLAN
 SCALE: 1" = 20'

GRID NORTH
 BUILDING NORTH



WFO / HERAD PROGRAM
 PROJECT NO. EN01

SEPD

SAFETY SHOULD ALWAYS BE FIRST WITH EVERY TASK YOU DO

PIGGO, DANIEL
 ARCHITECTS, P.A.

WEATHER FORECAST OFFICE
 GRAND JUNCTION, COLORADO

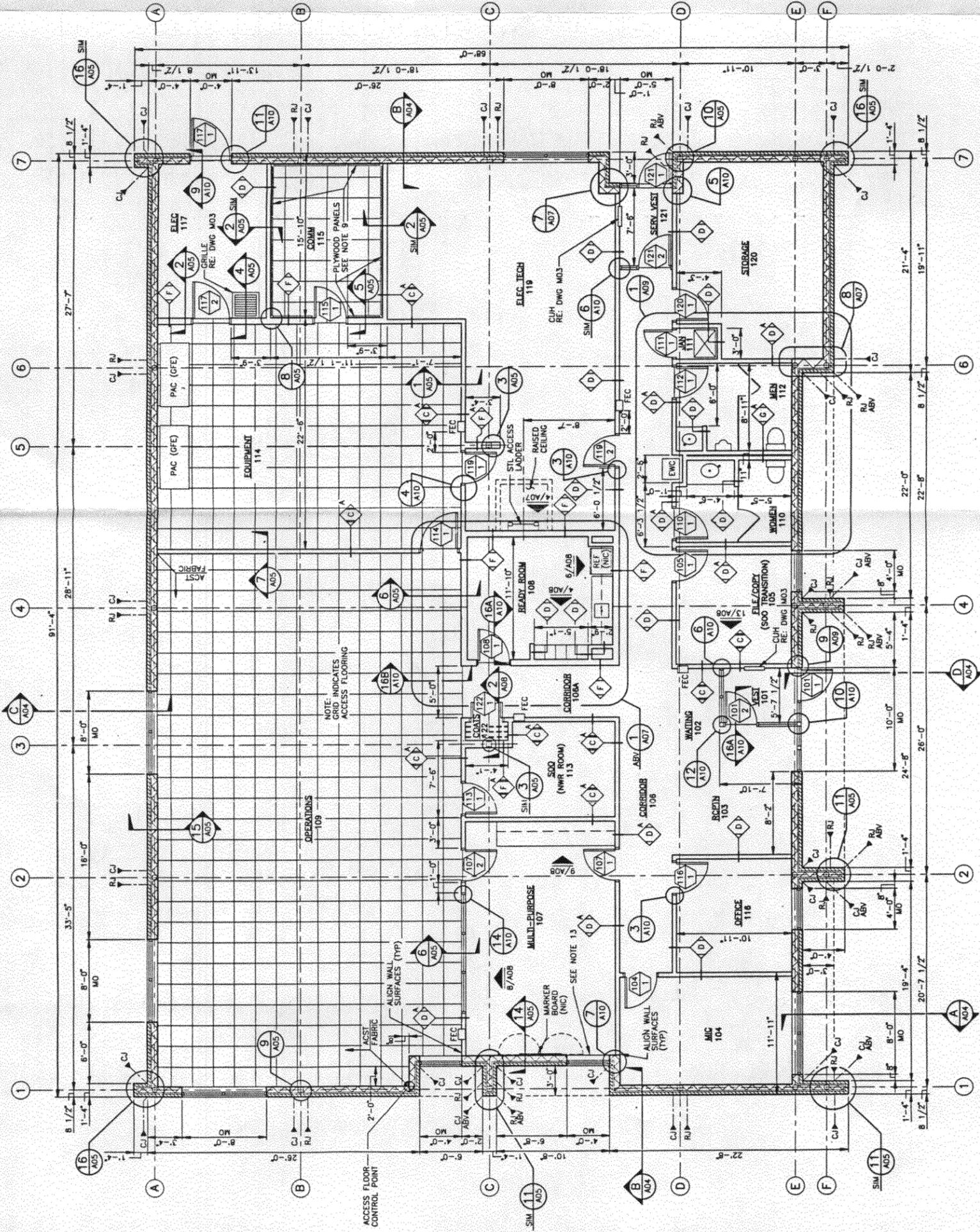
FINISH GRADING PLAN

044131-5 C02 EN A

WHERE DOES THE WATER GO? IS THE DITCHING SOMEWHERE ELSE? WILL THIS DETENTION AREA BE PERMANENT? DOES THIS MEAN SCREENING REQUIRED? WILL NEED AT LEAST 1 FIRE HYDRANT + NOT STOWN

GENERAL NOTES

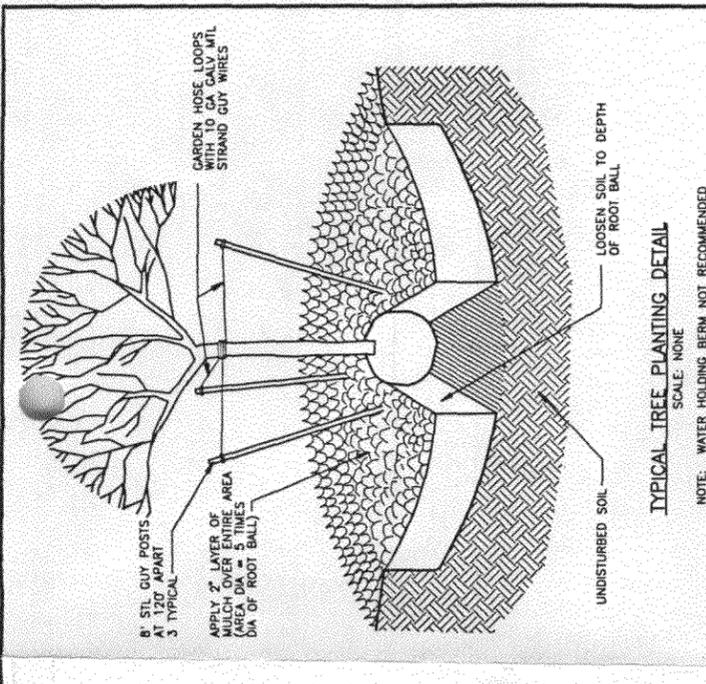
- FOR DRAWING LIST, ABBREVIATIONS, SYMBOLS AND PARTITION TYPES REFER TO DRAWING 01.
- DIMENSIONS ARE FROM COLUMN LINE TO FINISHED FACE OR FROM FINISHED FACE TO FINISHED FACE OF PARTITIONS UNLESS NOTED OTHERWISE.
- FINISH FLOOR ELEVATION = 0'-0"
- SEE DRAWING C02 & C03 FOR SIDEWALK LOCATIONS.
- DO NOT SCALE DRAWINGS.
- PROVIDE VENTILATION BLINDS AT ALL EXTERIOR GLAZED OPENINGS EXCEPT AT WEST 101 AND SERV VEST 121. BLIND WIDTH SHALL FIT INSIDE MULLIONS AT ALL LOCATIONS.
- PROVIDE VENTILATION BLINDS AT INTERIOR GLAZED OPENINGS OF MULTI-PURPOSE 107. BLIND WIDTH SHALL FIT INSIDE THE MULLIONS.
- PROVIDE A CONTINUOUS VAPOR RETARDER AT ALL EXTERIOR WALLS, AND SEAL AT ALL EDGES AND PENETRATIONS.
- PROVIDE 3/4" PLYWOOD SHEETS MOUNTED WALL TO WALL (TYP FOR ALL WALLS IN COMM ROOM #113) FLOOR TO STRUCTURE ABOVE.
- FOR TYPICAL EXTERIOR WALL CONSTRUCTION AND NOTES SEE DETAIL ON SHEET A05.
- REFER TO ELEVATIONS, SHEET A03 FOR CONTROL AND RAKE JOINT LOCATIONS.
- REFER TO SHEET A11 FOR DDG/STORAGE BUILDING DRAWINGS.
- ACCESS PANEL BY ELECTRICAL REFER TO ATTACHMENT 'B' FOR FINISH. REFER TO DRAWING E06 FOR LOCATION.



FLOOR PLAN
SCALE: 1/4" = 1'-0"
BUILDING NORTH

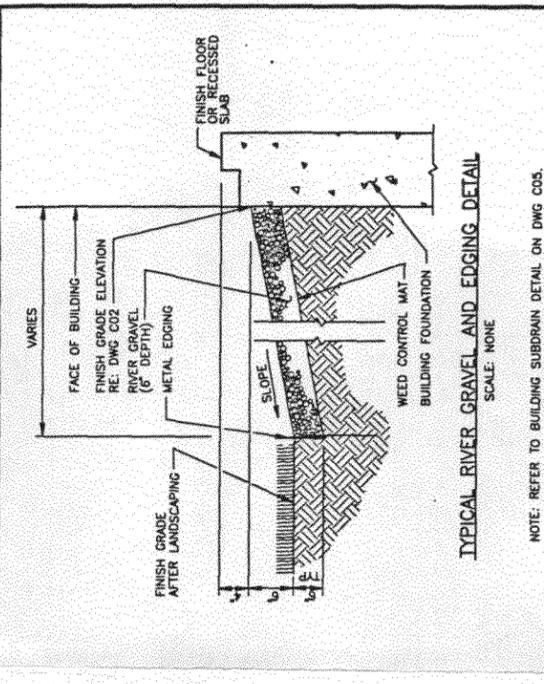


WFO / NEVAD PROGRAM PROJECT NO. EN01		SPECIAL ENGINEERING PROGRAM OFFICE (SEPO) WEATHER FORECAST OFFICE GRAND JUNCTION, COLORADO	
SAFETY SHOULD ALWAYS BE FIRST WITH EVERY TASK YOU DO		044131-5 A02 EN 0	



TYPICAL TREE PLANTING DETAIL
SCALE: NONE

NOTE: WATER HOLDING BERM NOT RECOMMENDED



TYPICAL RIVER GRAVEL AND EDGING DETAIL
SCALE: NONE

NOTE: REFER TO BUILDING SUBDRAIN DETAIL ON DWG C05.

PLANTING KEY				
TYPE	COMMON NAME	BOTANICAL NAME	QTY	SIZE
A	GAMBEL'S OAK	QUERCUS GAMBELI	7	5 GAL
B	TWO-NEEDLE PINYON PINE	PINUS EDULIS	5	5'-6" HEIGHT
C	ONE-SEED JUNIPER	JUNIPERUS MONOSPERMA	9	3'-4" HEIGHT
D	RABBITBRUSH	CHRYSOTHAMNUS	19	1 GAL
E	SILVER SAGEBRUSH	ARTEMISIA CANA	77	1 GAL
F	BIG SAGEBRUSH	ARTEMISIA TRIDENTATA	14	1 GAL
G	ALPINE MIX ASTER	ASTER "ALPINE MIX"	38	1 GAL
H	BURR OAK	QUERCUS MACROCARPA	1	2" DIA CALIPER
I	SAN JOSE JUNIPER	JUNIPERUS CHINENSIS 'SAN JOSE'	62	3 GAL

SD DONNELL SPECIAL ENGINEERING PROGRAM OFFICE (SEPO)
 WEATHER FORECAST OFFICE
 GRAND JUNCTION, COLORADO

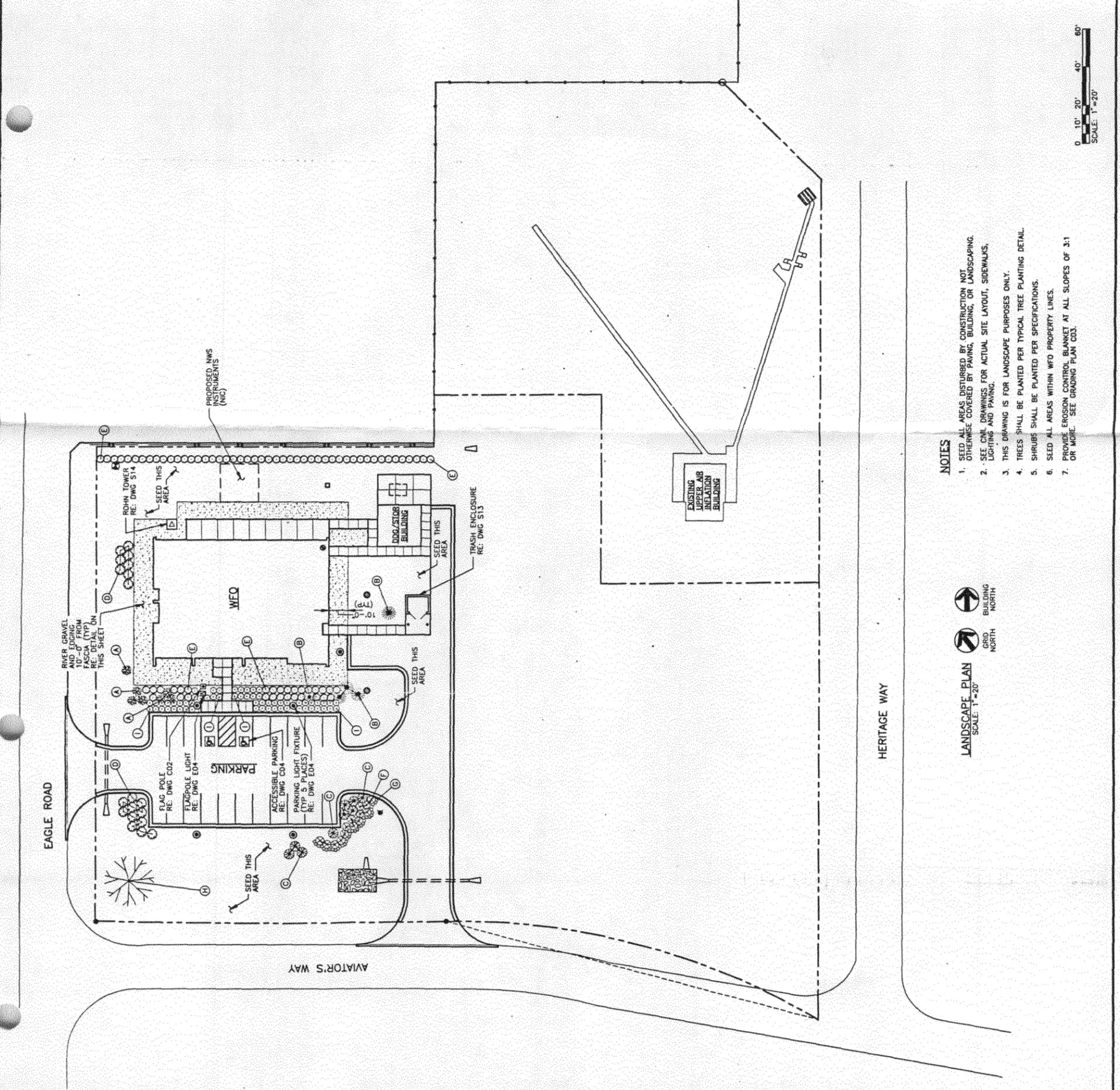
WFO / HERBARD PROGRAM PROJECT NO. EN01

SEPO

FINOR DANIEL GOLD EVANS ARCHITECTS, P.A.

LANDSCAPE PLAN

044131-5 A01 EN 0



- NOTES**
1. SEED ALL AREAS DISTURBED BY CONSTRUCTION NOT OTHERWISE COVERED BY PAVING, BUILDING, OR LANDSCAPING.
 2. SEE CIVIL DRAWINGS FOR ACTUAL SITE LAYOUT, SIDEWALKS, LIGHTING AND PAVING.
 3. THIS DRAWING IS FOR LANDSCAPE PURPOSES ONLY.
 4. TREES SHALL BE PLANTED PER TYPICAL TREE PLANTING DETAIL.
 5. SHRUBS SHALL BE PLANTED PER SPECIFICATIONS.
 6. SEED ALL AREAS WITHIN WFO PROPERTY LINES.
 7. PROVIDE EROSION CONTROL BLANKET AT ALL SLOPES OF 3:1 OR MORE. SEE GRADING PLAN C03.

LANDSCAPE PLAN
SCALE: 1"=20'

COMB NORTH

BUILDING NORTH

