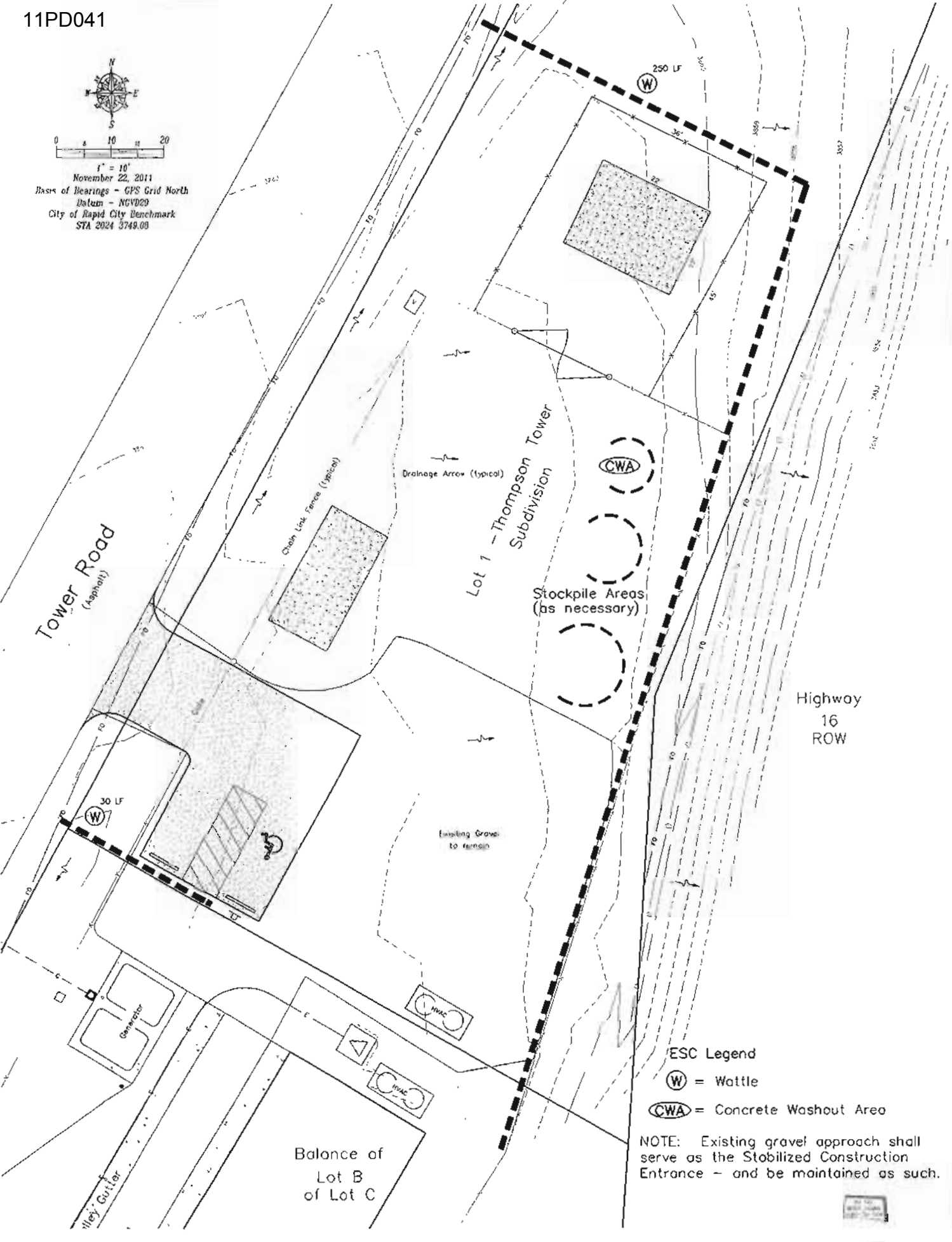


1" = 10'
 November 22, 2011
 Basis of Bearings - GPS Grid North
 Datum - NAD83
 City of Rapid City Benchmark
 STA 2024 3749.00



ESC Legend
 (W) = Wattle
 (CWA) = Concrete Washout Area

NOTE: Existing gravel approach shall serve as the Stabilized Construction Entrance - and be maintained as such.

EROSION AND SEDIMENT CONTROL (ESC) NARRATIVE

Site Name: Golden West Comm Facility
 Lot 1 of Thompson Tower Subdivision located in the NW1/4 of Section 14, T1N, R7E, BHM, Rapid City, Pennington County, South Dakota

Owner: Golden West Technologies
 2727 North Plaza Drive
 Rapid City, South Dakota, 57702

Engineer: Fisk Land Surveying & Consulting Engineers, Inc.
 P.O. Box 8154
 Rapid City, SD 57709

General Contractor: Undetermined

PROJECT DESCRIPTION
 The project consists of construction of a communications tower (w/ base) with associated utility infrastructure and an asphalt access, stabilization and parking area.

EXISTING SITE CONDITIONS
 The site is an undeveloped hilltop sloping east/northeasterly.

ADJACENT AREAS
 North: Undeveloped
 South: Communications Tower/Facility
 East: May 16
 West: Undeveloped

SOILS
 See Geotechnical Exploration

AREA AND VOLUME DISTURBED
 Disturbed area consists of 2,950 SF of hard surface (asphalt/PCC concrete)
 Total volume disturbed 100 CWT

SEDIMENT CONTROL MEASURES
 Sediment control measures will consist of Wattles, Concrete Washout Area and Stabilized Construction Entrance.
 See Erosion & Sediment Control Plan

AREA FOR STOCKPILES AND STORAGE
 Topsoil stockpile area is shown on the ESC Plan.
 Storage areas shall be contained within the watted containment areas as shown on the ESC Plan.

EROSION AND SEDIMENT CONTROL CONSTRUCTION SEQUENCE
 Phase 1: Install Erosion and Sediment Control devices in accordance with the plan (Sheet 3)
 Phase 2: Upon completion of parking as indicated, owner and his agent(s) shall proceed with installation of comm. construction activity. Initiate permanent stabilization measures on all disturbed areas.
 Phase 3: When disturbed areas are stabilized, remove sediment control devices and file notice of termination with the State.

CONSTRUCTION AND ESC SEQUENCE SCHEDULE PERMANENT STABILIZATION MEASURES
 ESC device installation and siting operations represent the initial phase of construction activities. Followed by parking and associated activities. Permanent Stabilization Measures (seeding, mulching and watering) will be required for entire disturbed area. These measures shall be required until adequate vegetation is established.

STORMWATER MANAGEMENT CONSIDERATIONS
 Prior to site commencement the site drains to the east-northeasterly at 5-10% & construction activity and stabilization activities will not alter the historical drainage patterns. Wattles along the western side of the site will provide primary control.

MAINTENANCE
 Inspection of Erosion and Sediment Control Measures should be scheduled weekly and following any storm event of 0.5 inches or greater. All measures will be maintained in good working order. Inspection and maintenance will continue until all disturbed areas have reached final stabilization. Road streets adjacent to the site shall be cleaned at the end of each working day to remove sediment.

SPILL PREVENTION
 Petroleum Products: Onsite construction equipment will be maintained for leaks & receive regular preventative maintenance. Asphalt, Chemical and Fertilizers: The user is advised and fertilizers in emergency. Concrete Trucks: Concrete Trucks will be required to 4500 lbs surplus concrete within designated washout area. Surplus concrete from washout area shall be disposed of at a permitted dump site.

SOIL CONTROL PRACTICES
 Chemical and petroleum product spills of toxic or hazardous material will be reported to the appropriate Federal, State or Local Government agency. All spills will be cleaned up immediately after.

SOIL SURFACE STABILIZATION PRACTICES
 After construction begins, mulch stabilization shall be applied within 14 days to all disturbed areas that were not set at final grade but will remain dormant (undisturbed) for periods longer than 21 calendar days. Within 14 days after final grade is reached on any portion of the site, permanent or temporary soil surface stabilization shall be applied to disturbed areas and soil stockpiles.

MAXIMUM LIMITS OF LAND EXPOSURES FOR SELECTION OF EROSION CONTROLS

Erosion Control Method	Max Allowable period of exposure (months)
Surface Roughening	N/A
Mulching	12
Temporary Revegetation	12-24
Permanent Revegetation	24 or more
Soil Stockpile Revegetation	2
Early Application of Road Base	1

SITE PLAN
 The existing contours are shown at one foot intervals. The proposed are at one foot intervals. The construction limits, trucking area, washout area and silt fence are shown on the plan.

NOTICE OF INTENT (Permit No. _____)
 A notice of intent has not been filed with DNR.

WETLANDS
 No wetlands will be impacted with this project.

DEWATERING
 Dewatering operations are not expected. If needed, a general dewatering permit will be obtained from DNR.

EROSION AND SEDIMENT CONTROL PLAN CERTIFICATION
 This erosion and sediment control narrative and attached erosion and sediment plan appears to fulfill the technical criteria and the criteria for erosion control and the requirements of the City of Rapid City. I understand that additional erosion and sediment control measures may be needed if unforeseen erosion problems occur or if the submitted plan does not function as intended. The requirements of this plan shall not be the obligation of the responsible party until such time as the plan is completed, modified or voided.

Owner/Developer _____ Date _____
 General Contractor _____ Date _____

ENGINEER'S CERTIFICATION
 I hereby certify that these plans were prepared under my direct supervision and that I am a duly registered Professional Engineer under the laws of the State of South Dakota.
 _____ 11/22/11
 Engineer Date

Fisk Land Surveying & Consulting Engineers, Inc.
 1023 Main Street - P.O. Box 8154
 Rapid City, South Dakota 57709
 (605) 348-1518 (fax) (605) 341-1112 (tx)
 (605) 348-1518 (tel) (605) 341-1112 (fx)
 (605) 348-1518 (fax) (605) 341-1112 (fx)



The information herein is copyrighted material, and specific to the date, client and purpose as stated.

No warranty or guarantee is expressed or implied, and no liability shall be assumed for any other purpose at any time except as stated.

Topographic Map - Site Plan
 Portions of Lot 1 of Thompson Tower Subdivision located in NW1/4 of Section 14, T1N, R7E, BHM, Rapid City, Pennington County, South Dakota

Surveyed by: SOT
 Date: 11/3/11
 Drawn by: RWF
 Date: 11/22/11
 Checked by: WF

Revisions

Project No. 11-11-03

ESC Plan & Narrative

RECEIVED

NOV 23 2011

RAPID CITY COMMUNITY PLANNING & DEVELOPMENT SERVICES