

IM-240 Michigan

Ralph J. Stephenson, P. E.
Consulting Engineer
August 15, 1994

Charles H. VanDeusen, P. E.
Consultant
21160 East Farm Lane
Northville, Michigan 48167

Dear Chuck:

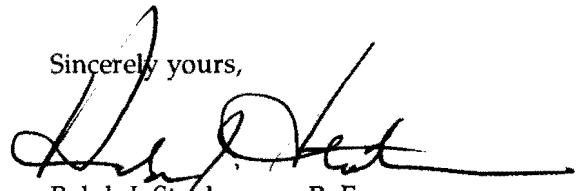
Re: Disk for IM-240 project and bar charts of i2 la sht 1, dated August 2, 1994

Enclosed is a disk containing the issue #2 network model, dated August 2, 1994, for the IM-240 project. The network is in the netwk fldr and is the file named i2la sht #1 i/m 240. The file can be opened with any version of MacProject from MacProject II.1v2.1on. If those using the disk need any information, please have them call me.

Also enclosed are seven bar charts derived from the network models (critical path networks) for sites #1 through #7. These are stapled in sets of three, each being for the site as designated. I did tape one set together to show how they fit into a full network. However I left the others unassembled so you can duplicate them as needed.

The bar chart enclosed is not necessarily the best of the graphic bar charts that can be made. However, in the interest of time, I translated the critical path network material directly into the quickest format available. If you want the bar charts in a more refined graphic mode, please don't hesitate to call.

Sincerely yours,



Ralph J. Stephenson, P. E.

Enclosure: disk 432 copy & 7 bar charts stapled

IM-240 Michigan notes - disk 428

These notes are for the internal use of Systems Control Western Michigan IM-240 team.

- I. **Date of meeting: Friday, June 3, 1994**
- II. **Location of meeting: Dan Vos offices - 6160 E. Fulton, Ada, Michigan**
- III. **Notes by Ralph J. Stephenson, P. E.**
- IV. **Those attending**
 - A. *Charles VanDeusen - Systems Control, Inc.
 - B. *Robert J. Hogeboom - Systems Control, Inc.
 - C. *Mark Scobell - Dan Vos Construction Company
 - D. *Fred Bull - Systems Control, Inc.
 - E. Gordon DeYoung - Dan Vos Construction Company
 - F. *Dan Blundy - Dan Vos Construction Company
 - G. Steve Bishop - Moore and Brugginik
 - H. Jim Dykema - Dykema Excavating
 - I. *Ralph J. Stephenson - Consultant to Systems Control, Inc.
 - J. Pete Pociello - MDOT - did not attend
 - K. Rich Tucker - Systems Control, Inc.
- V. **Agenda**
 - A. Prepare network model for total project
 - B. Set key dates
 - C. Print out current networks
- VI. **Key dates**
 - A. 05/17/94 - Systems Control gave written direction to proceed based on verbal notification of MDOT that SC was the successful proposer.
 - B. 06/15/94 - MDOT issue notice to proceed - contract date
 - C. 01/01/95 - Incentive date for early start up of all 7 stations.
 - D. 02/01/95 - Total completion date for opening for operations at all 7 stations - contract date
 1. Assume acceptance will take no more than 3 working days for inspection and another 12 working days for final approval.
- VII. **General notes**
 - A. Must determine at what point SC can begin installation of equipment relative to construction.
 1. 2 weeks before completion of construction.
 - B. SC will complete negotiate contract with MDOT on June 3, 1994
 1. Bob Miller will sign on June 3, 1994
 - C. Must have contract ready for Commission meeting on June 15, 1994
 1. Must not extend past this date to next Commission meeting on July 21, 1994.
 - D. SC will own, operate, service and maintain the facility for 7 years. MDOT will take over ownership of all land, buildings and equipment for all 7 sites.
 1. Options available at end of 7 years
 - a) Continue with SC
 - b) License to another operating group (rebid operation)
 - c) Cancel program
 - E. MDOT retains approval rights to
 1. Final site selection

2. Final site design
 3. Final building design - has been approved verbally by MDOT.
 4. Final inspection and acceptance procedure prior to public operation. How long will this take?
- F. Is a default condition on MDOT approvals of 15 calendar days (to be checked)
G. MDOT must appoint a single point of contact - this is currently Pete Pociello of MDOT
H. Completion of construction does not include installation of equipment by Systems Control.

VIII. Physical characteristics of facilities

A. Program components and tasks

1. System design - parts that impact construction are substantially complete for all except headquarters facility
 - a) #1 - City of Whitehall
 - b) #2 - Muskegon Township
 - c) #3 - Spring Lake Township
 - d) #4 - Holland Township
 - e) #5 - Grand Rapids North
 - f) #6 - City of Grandville
 - g) #7 - City of Grand Rapids
 - h) Headquarters facility - Plainfield Township
2. Software development - parts that impact construction are substantially complete for all 8
 - a) #1 - City of Whitehall
 - b) #2 - Muskegon Township
 - c) #3 - Spring Lake Township
 - d) #4 - Holland Township
 - e) #5 - Grand Rapids North
 - f) #6 - City of Grandville
 - g) #7 - City of Grand Rapids
 - h) Headquarters facility - Plainfield Township
3. Site selection - to be done by SC and consultants
 - a) #1 - City of Whitehall - complete
 - b) #2 - Muskegon Township - complete
 - c) #3 - Spring Lake Township - complete
 - d) #4 - Holland Township - complete
 - e) #5 - Grand Rapids North - To be determined.
 - f) #6 - City of Grandville - complete
 - g) #7 - City of Grand Rapids - complete
 - h) Headquarters facility - Plainfield Township - not determined as yet. Considering 5 areas at present.
4. Facility design & permitting - in progress. No permits in hand. Some soil borings may have been taken - all by Dan Vos
 - a) #1 - City of Whitehall
 - b) #2 - Muskegon Township
 - c) #3 - Spring Lake Township
 - d) #4 - Holland Township
 - e) #5 - Grand Rapids North

- f) #6 - City of Grandville
- g) #7 - City of Grand Rapids
- h) Headquarters facility - Plainfield Township
- 5. Site acquisition - no sites finally acquired
 - a) #1 - City of Whitehall
 - b) #2 - Muskegon Township
 - c) #3 - Spring Lake Township
 - d) #4 - Holland Township
 - e) #5 - Grand Rapids North
 - f) #6 - City of Grandville
 - g) #7 - City of Grand Rapids
 - h) Headquarters facility - Plainfield Township
- 6. Construction - no construction started
 - a) #1 - City of Whitehall
 - b) #2 - Muskegon Township
 - c) #3 - Spring Lake Township
 - d) #4 - Holland Township
 - e) #5 - Grand Rapids North
 - f) #6 - City of Grandville
 - g) #7 - City of Grand Rapids
 - h) Headquarters facility - Plainfield Township
- 7. SC equipment acquisition and installation - standard equipment to be acquired and installed by SC.
 - a) #1 - City of Whitehall
 - b) #2 - Muskegon Township
 - c) #3 - Spring Lake Township
 - d) #4 - Holland Township
 - e) #5 - Grand Rapids North
 - f) #6 - City of Grandville
 - g) #7 - City of Grand Rapids
 - h) Headquarters facility - Plainfield Township
- 8. Dan Vos equipment and installation - must define these items as separate from that SC provides.
 - a) #1 - City of Whitehall
 - b) #2 - Muskegon Township
 - c) #3 - Spring Lake Township
 - d) #4 - Holland Township
 - e) #5 - Grand Rapids North
 - f) #6 - City of Grandville
 - g) #7 - City of Grand Rapids
 - h) Headquarters facility - Plainfield Township
- 9. Staff recruitment and training - done totally by SC
 - a) #1 - City of Whitehall
 - b) #2 - Muskegon Township
 - c) #3 - Spring Lake Township

- d) #4 - Holland Township
 - e) #5 - Grand Rapids North
 - f) #6 - City of Grandville
 - g) #7 - City of Grand Rapids
 - h) Headquarters facility - Plainfield Township
10. Acceptance testing - done totally by SC in conjunction with MDOT.
- a) #1 - City of Whitehall
 - b) #2 - Muskegon Township
 - c) #3 - Spring Lake Township
 - d) #4 - Holland Township
 - e) #5 - Grand Rapids North
 - f) #6 - City of Grandville
 - g) #7 - City of Grand Rapids
 - h) Headquarters facility - Plainfield Township

IX. Abbreviations

X. Glossary of terms

XI. Laundry lists

XII. Procurement information

XIII. Transfer section

IM-240 Michigan notes - disk 428

Date of meeting: Friday, June 3, 1994

Location of meeting: Dan Vos offices - 6160 E. Fulton, Ada, Michigan

Notes by Ralph J. Stephenson, P. E.

Those attending

Pete Pociello - MDOT

Robert Brugginik - Moore and Brugginik

Gordon DeYoung - Dan Vos Construction Company

Mark Scobell - Dan Vos Construction Company

Jim Dykema - Dykema Excavating

Fred Bull - Systems Control, Inc.

Robert J. Hogeboom - Systems Control, Inc.

Charles Vandeusan - Systems Control, Inc.

Ralph J. Stephenson - Consultant to Systems Control, Inc.

Key dates

Physical characteristics of facilities

Program components and tasks

System design

Software development

Site selection

Facility design & permitting

Site acquisition

Construction

Equipment acquisition and installation

Staff recruitment and installation

Acceptance testing

I/M 240 MDOT Michigan
Note file:

Ralph J. Stephenson, P. E.
Consulting Engineer
June 2, 1994

Abbreviations
Glossary of terms
Laundry lists
Procurement information

XIV. Those involved

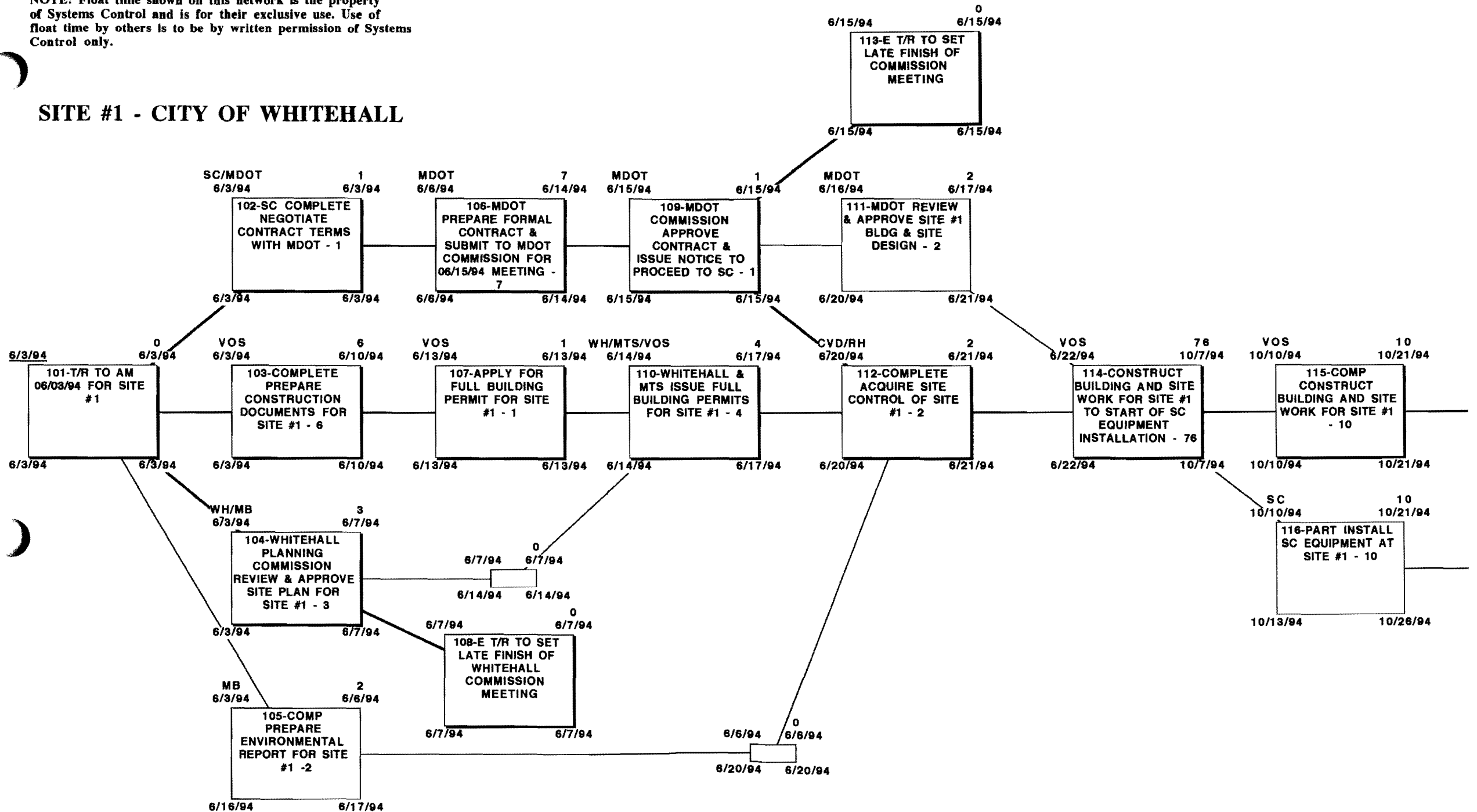
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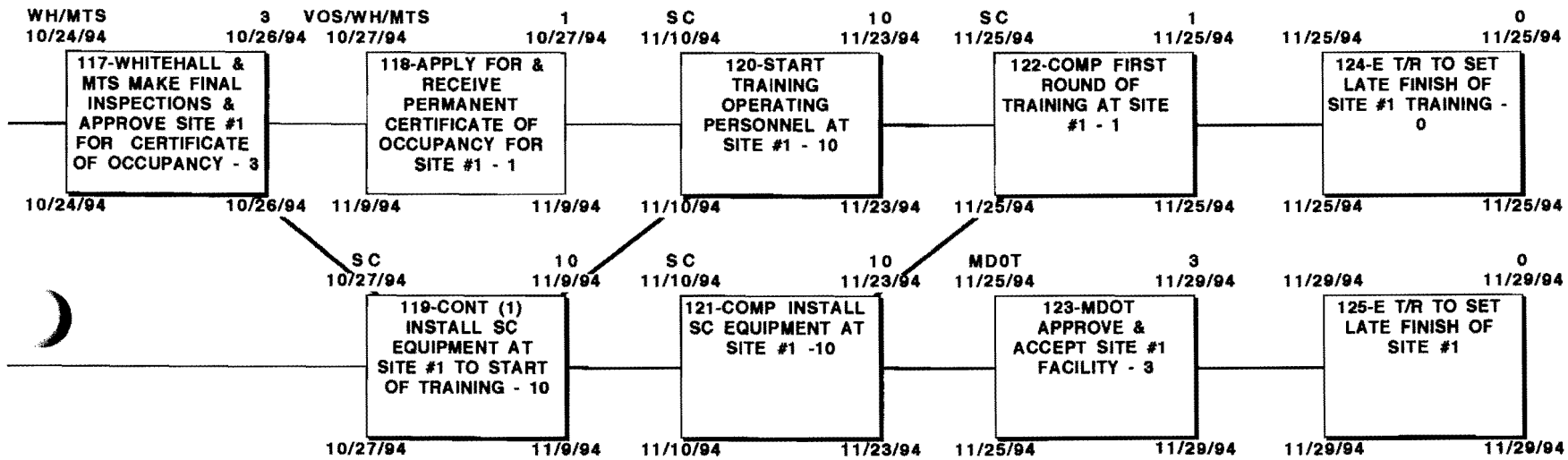
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date last modified: June 2, 1994

NOTE: Float time shown on this network is the property of Systems Control and is for their exclusive use. Use of float time by others is to be by written permission of Systems Control only.

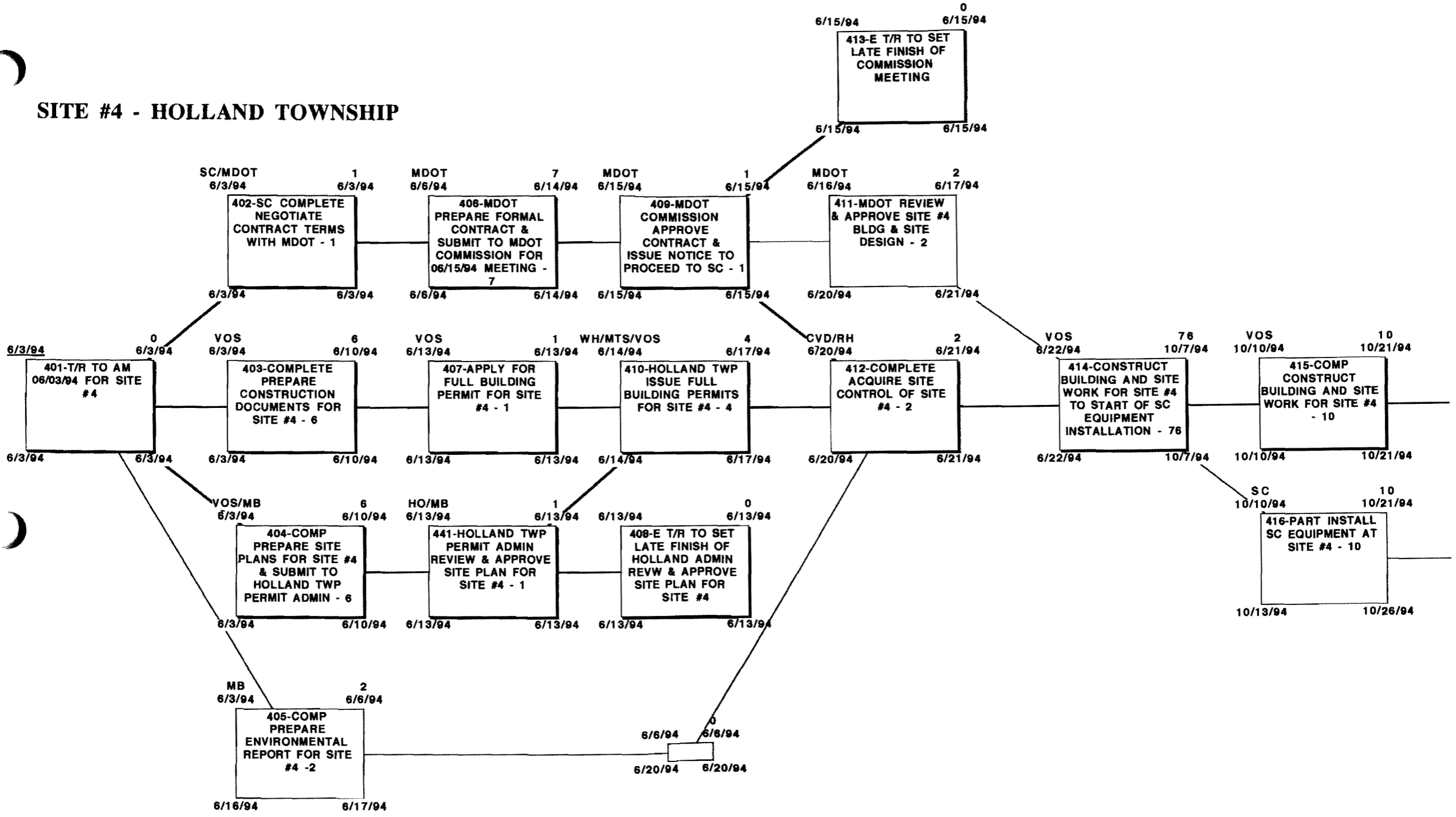
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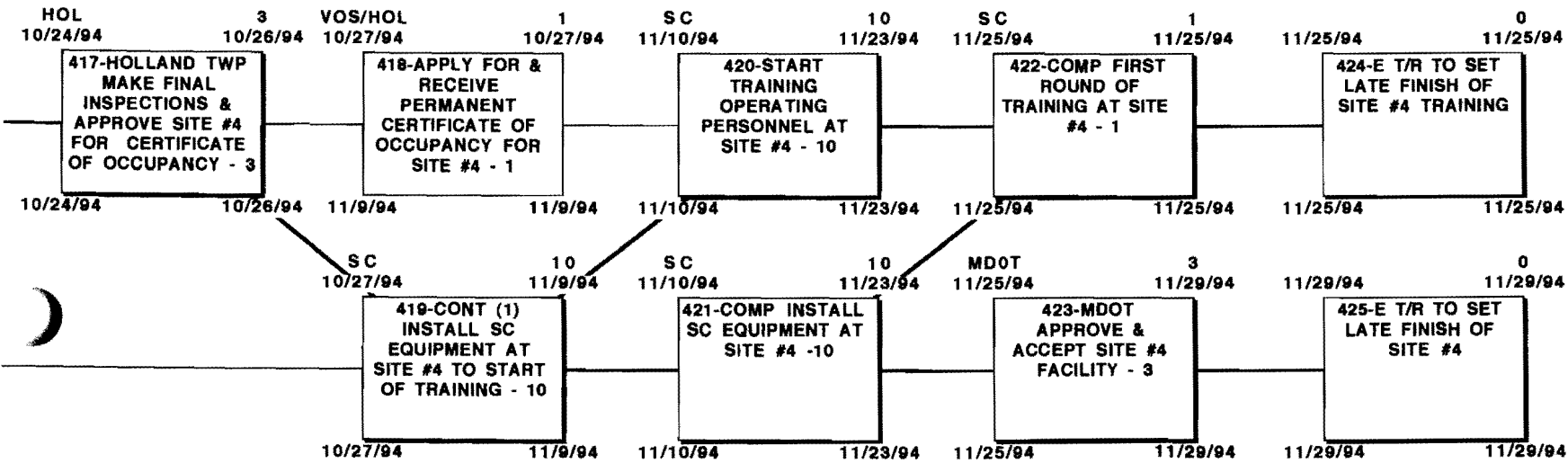
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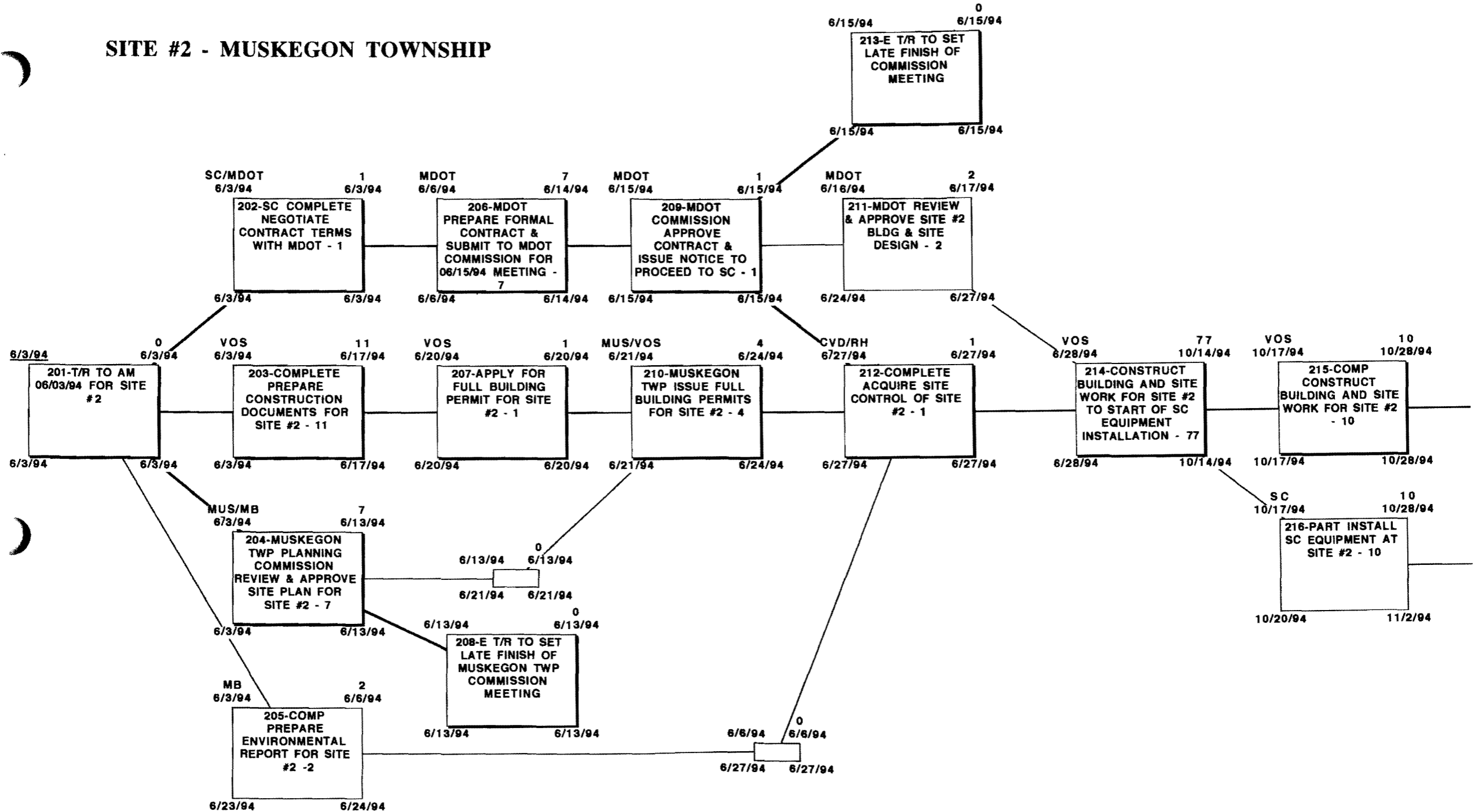
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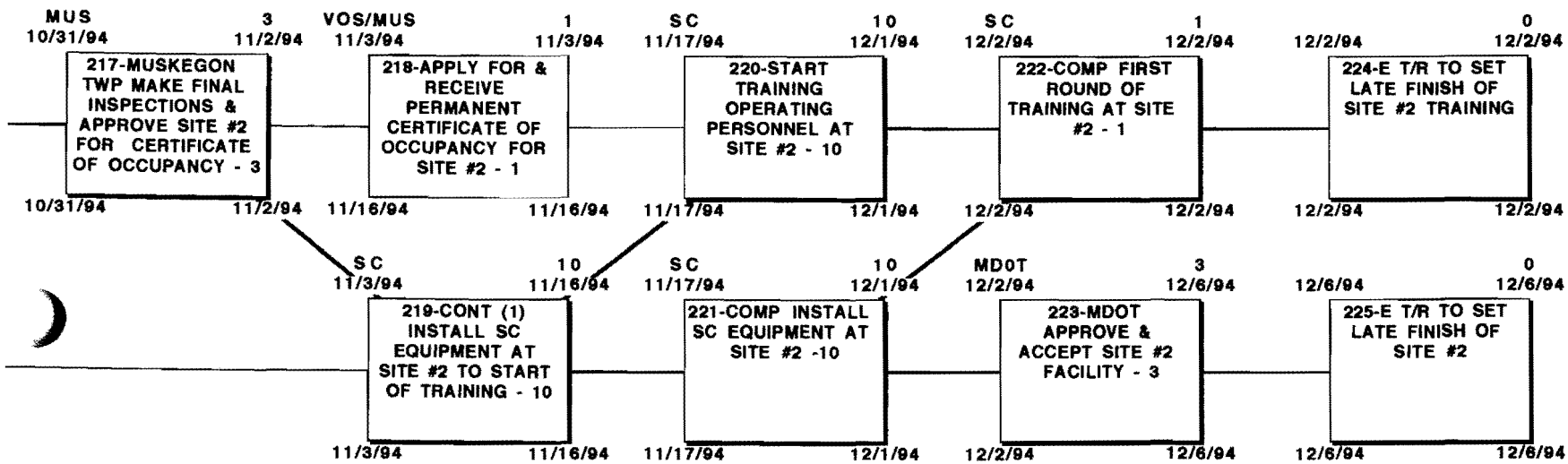
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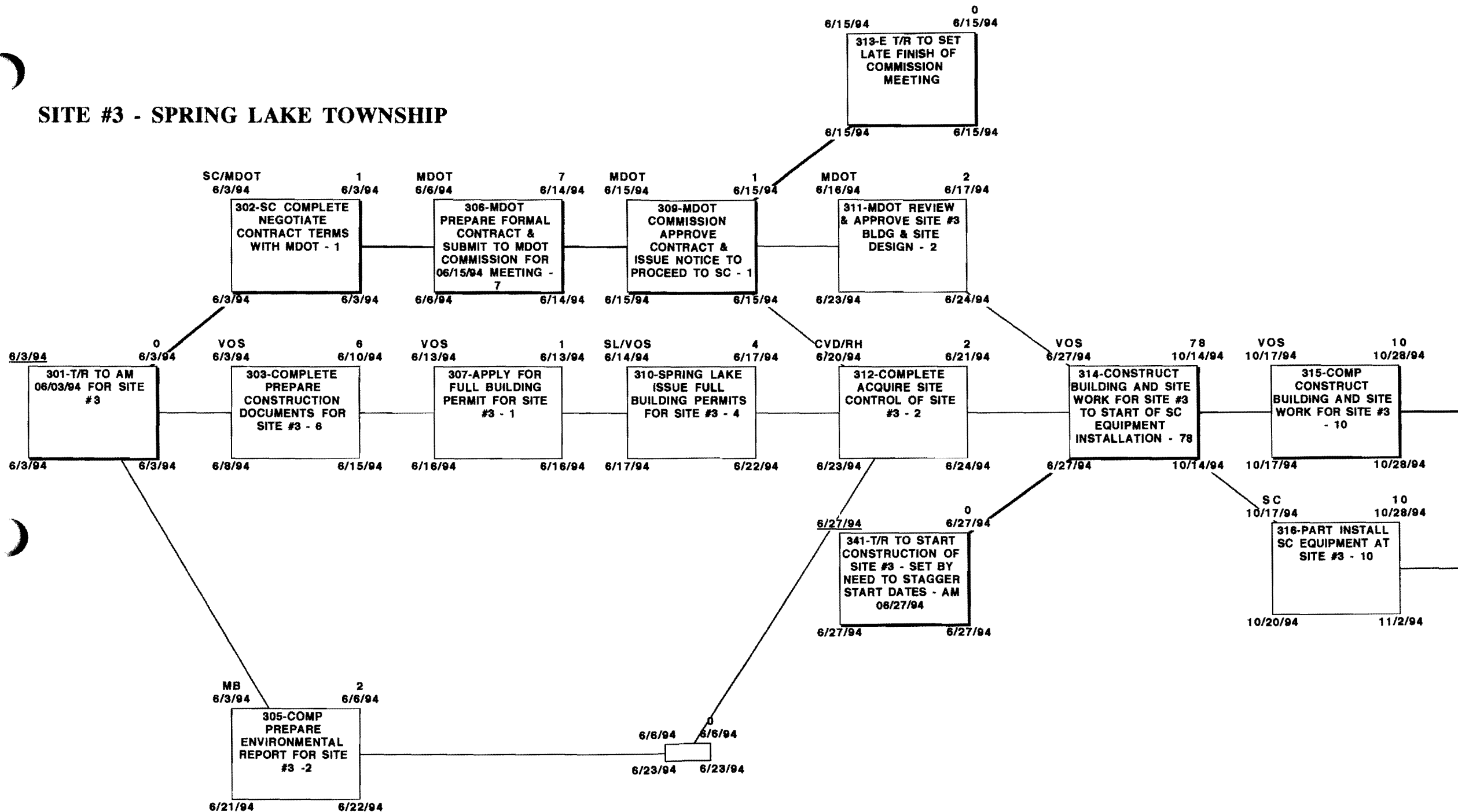
SITE #2 - MUSKEGON TOWNSHIP



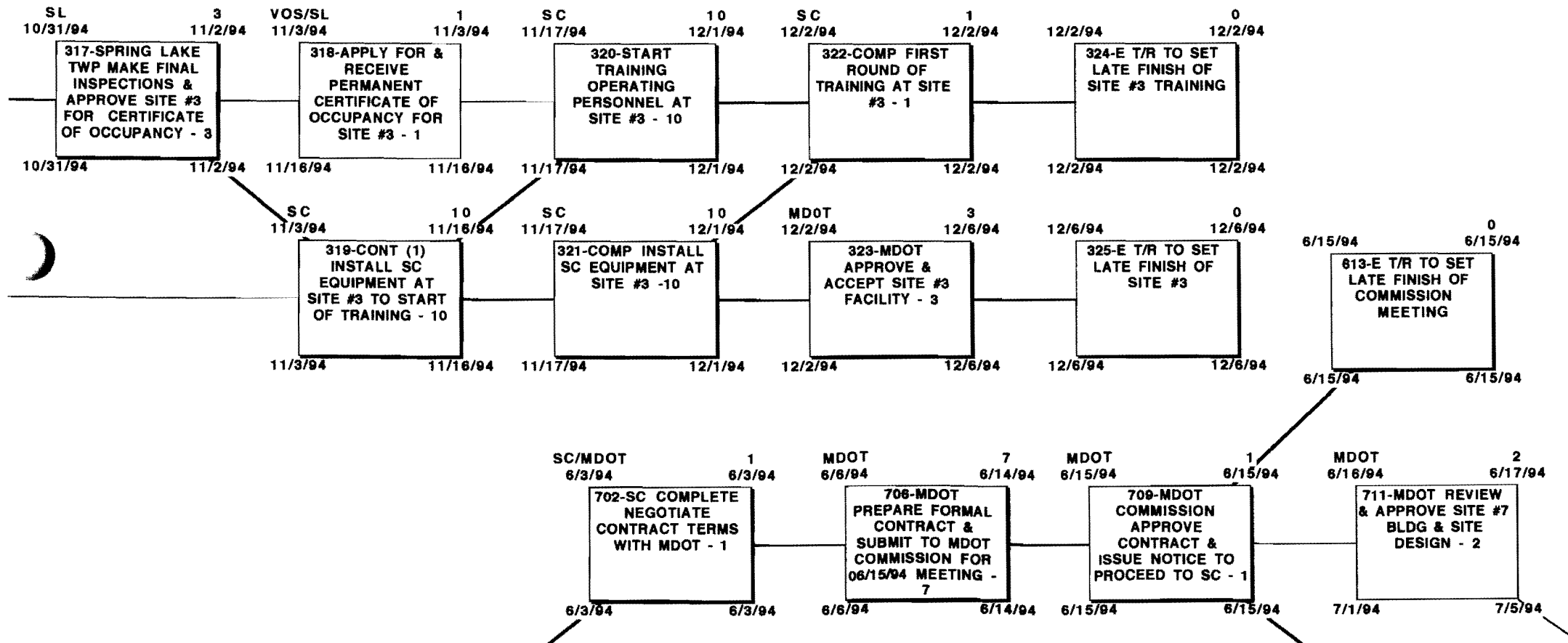
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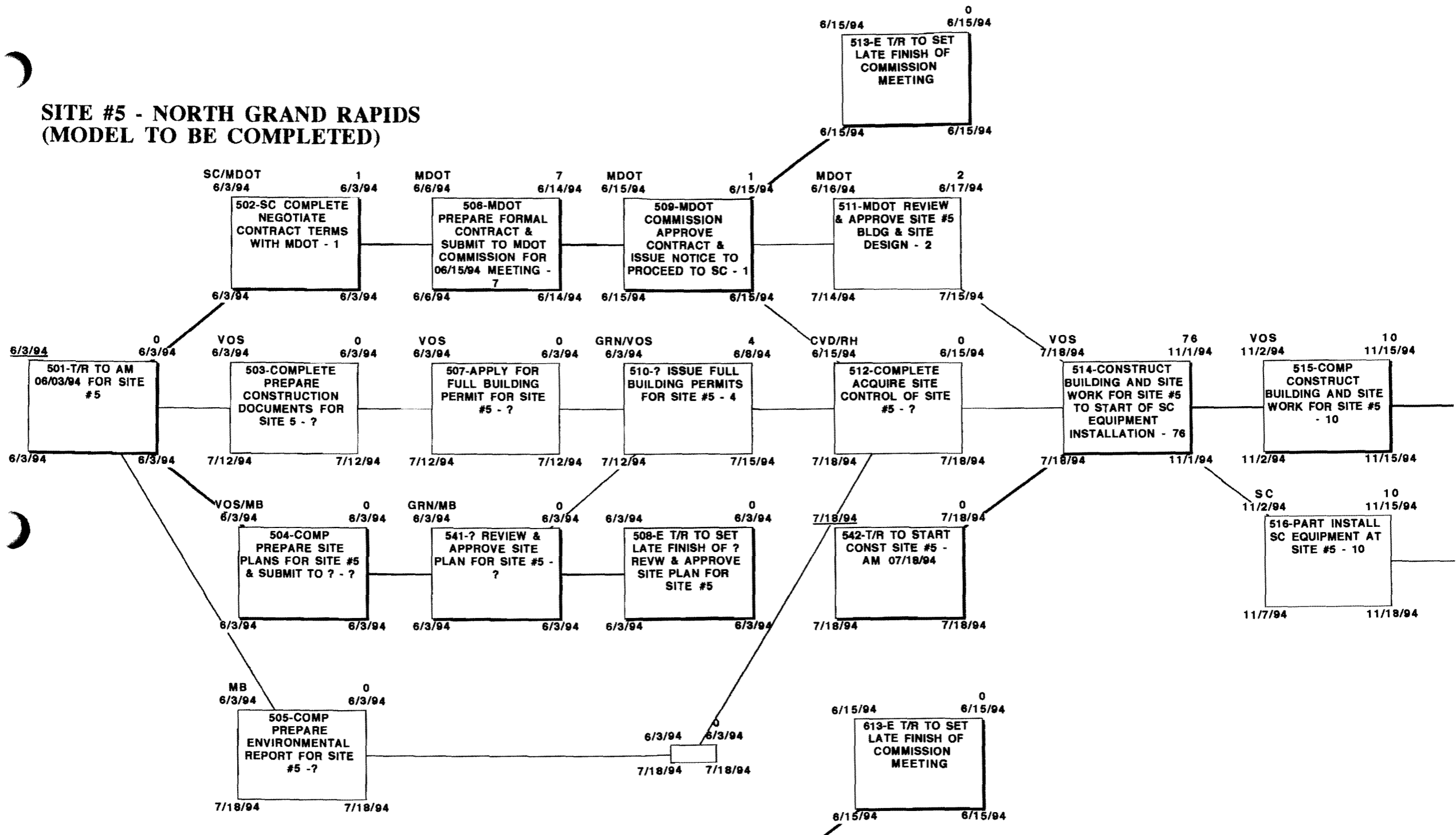
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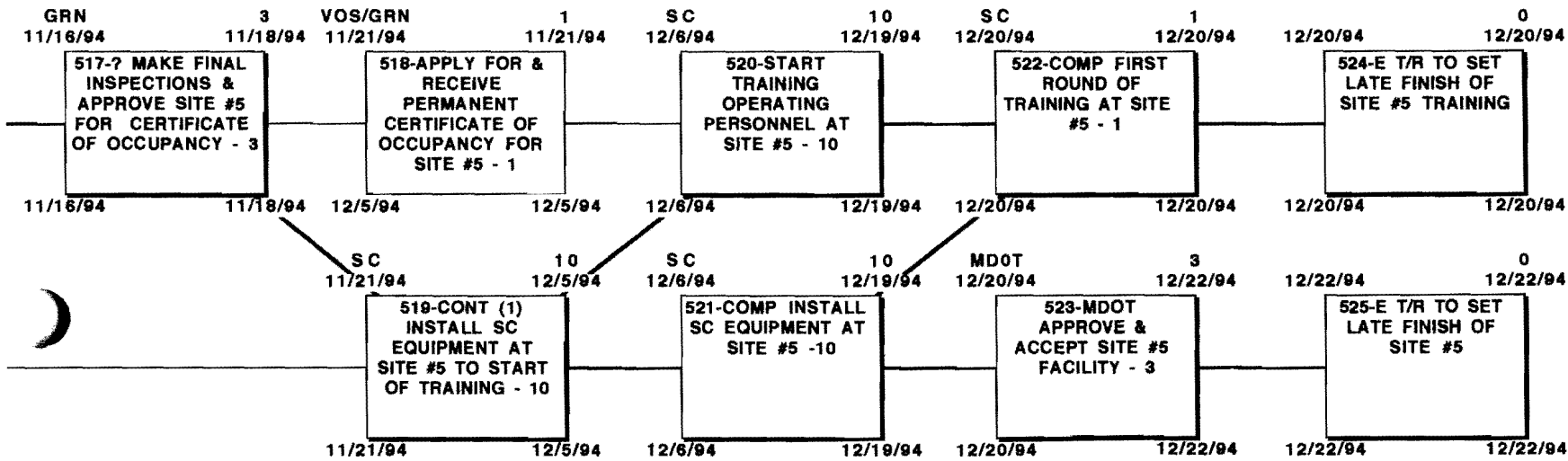
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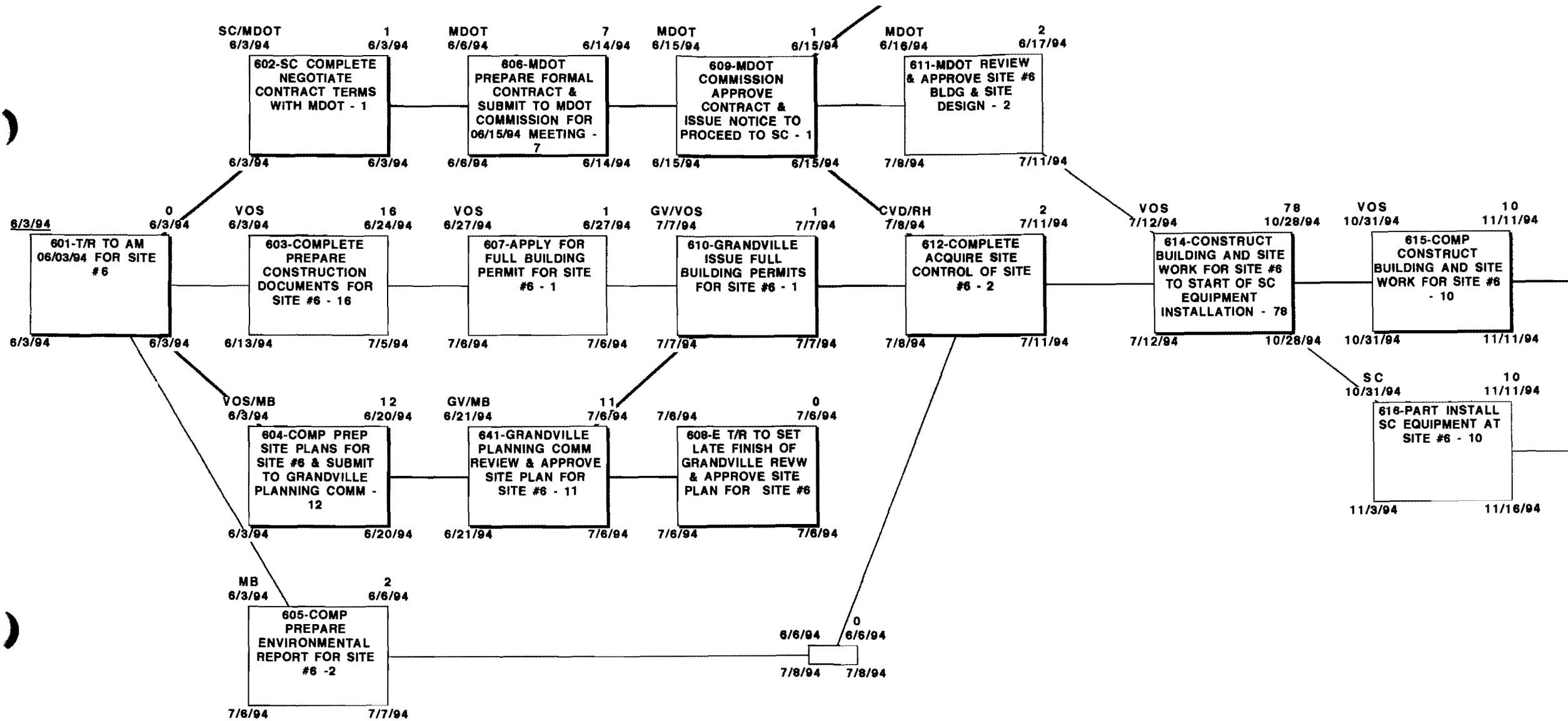


**SITE #5 - NORTH GRAND RAPIDS
(MODEL TO BE COMPLETED)**



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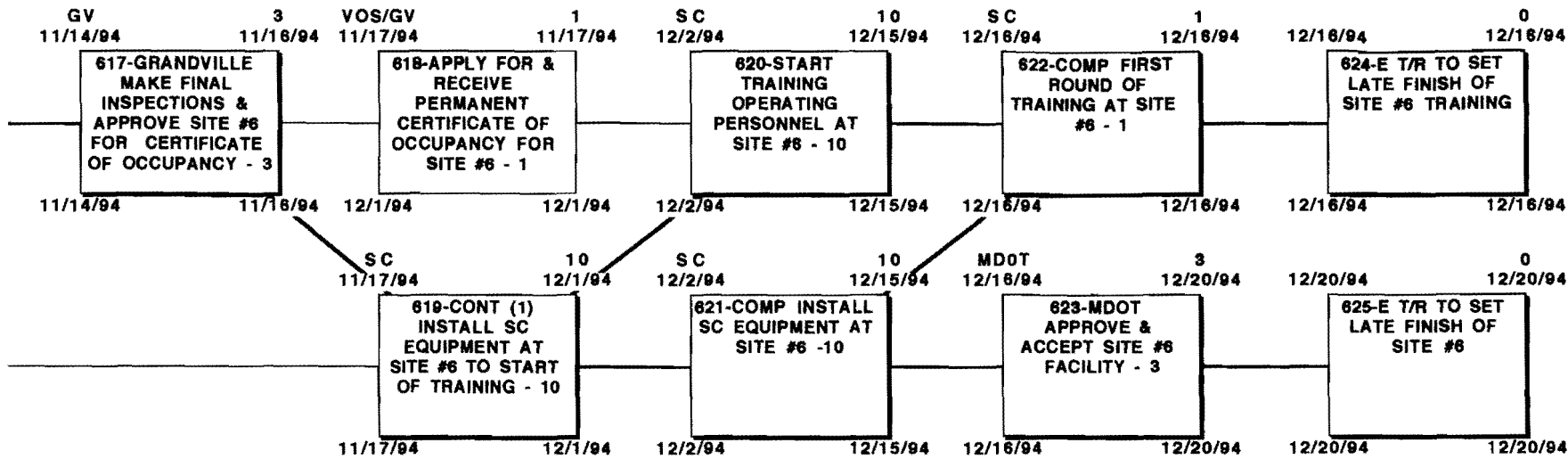




SITE #6 - GRANDVILLE

SITE #7 - GRAND RAPIDS

SITE #6 - GRANDVILLE

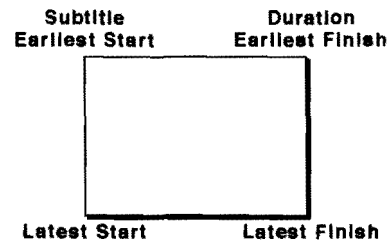


Issue #01 - June 3, 1994
 il sht #1 - disk 428

NETWORK PLANNING MODEL - I/M-240 VEHICLE EMISSIONS INSPECTION PROGRAM - Michigan Department of Transportation

Systems Control, Inc.
 Western Michigan Team

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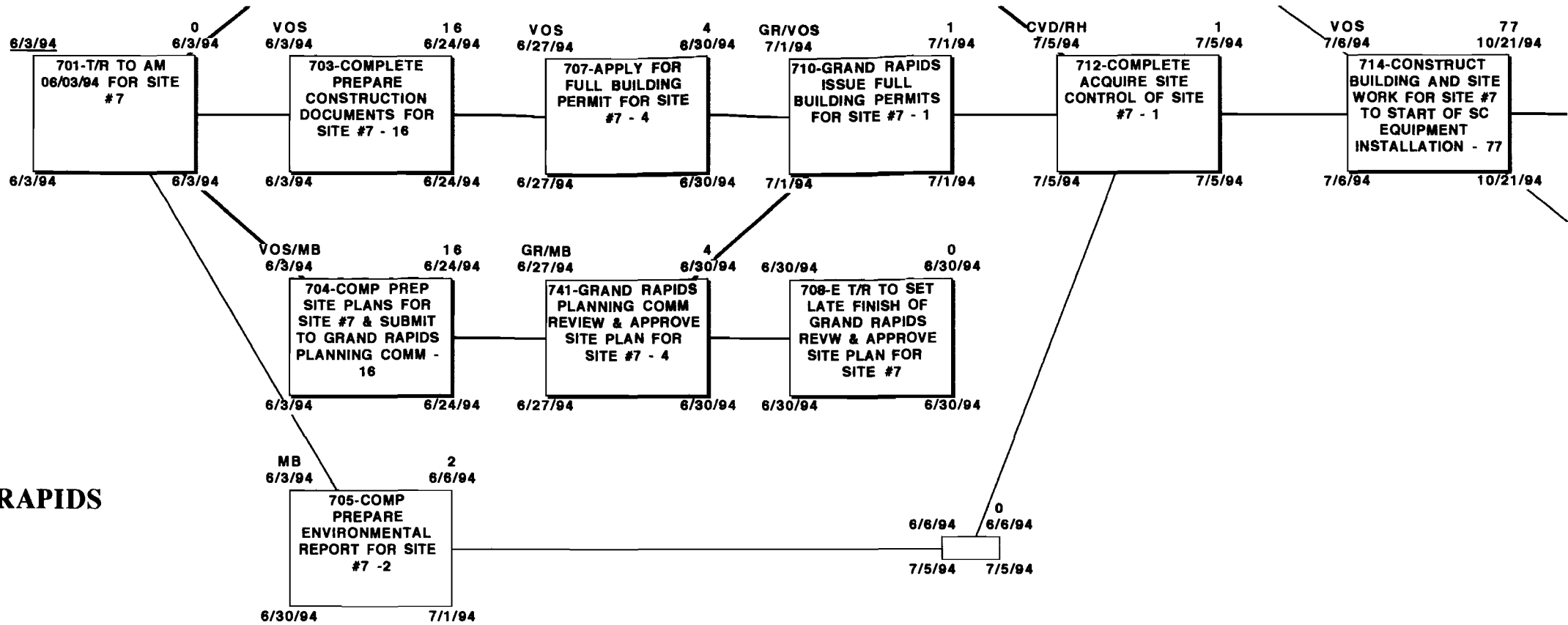


TASK LEGEND

Reserved Activity Numbers

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044	049

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SITE #7 - GRAND RAPIDS

