

**Unedited Notes From  
Actual Partnering Meetings  
For Review and Study**

<b>II</b>	<b>Problems Others Cause Us</b>	<b>1 - 17</b>
<b>III</b>	<b>Problems We Cause Others</b>	<b>1 - 11</b>
<b>IV</b>	<b>Problems Without Source Identified</b>	<b>1 - 3</b>
<b>V</b>	<b>Recommendations for Improving</b>	<b>1 - 13</b>
<b>VI</b>	<b>Individual Mission Statements</b>	<b>1 - 14</b>
<b>VII</b>	<b>Project Charters</b>	<b>1 - 5</b>

**Ralph J. Stephenson, P.E.  
November 3, 1993**

**DEVELOPING SUCCESSFUL "PARTNERING" RELATIONSHIPS  
FOR DESIGN AND CONSTRUCTION**

**Madison, Wisconsin  
November 3-5, 1993**

**II. Problems others cause us**

- A. Failure to design and build to owners objectives as defined by the problem statement(budget, scope, quality, schedule)
- B. Failure to meet commitments
- C. Insufficient time to make required decisions
- D. Poor communication(Inappropriate amount of written/oral ocmunicaation)
- E. Disruptions of existing operations
  - 1. access(building, parking)
  - 2. noise and diet
  - 3. utilities
  - 4. proper separatin of construction and the public(employees, visitors, vendors, deliveries)
- F. Failure to provide a high quality, maintainable facility
- G. Hiring unqualified subcontractors
- H. Failure to establish and adhere to a clear communication channel
  - I. Failure to properly train owner's facilities staff on building operations and maintenance
  - J. Untimely closeout
  - K. Inflexible, rigid attitudes
  - L. Failure to follow agreed upon procedures
- M. Liens and claims
- N. Lack of timely responses from owner
- O. Information(drawings,etc.) from consultants in a timely manner.
- P. Owner failing to establish clear chain of command
- Q. Owner's lack of a definitive program and schedule
- R. Trying to satisfy owners expectations with a tight budget.
- S. Government agency reviews and interpretations
- T. Precise cost estimating
- U. Lack of responsive cost estimating at preliminary phases of project
- V. Agree with samples on list/ anyone can cause a problems
- W. Poor communications of changes & revisions
  - X. Untimely payments
  - Y. Failure to make timely responses
  - Z. Schedule established w/o input
- AA. Substitutions w/o approval
- AB. Inadequate self supervision
- AC. Unrealistic demands on approval of submittals
- AD. Not revealing/addressing construction problems promptly
- AE. Changes to program during design
- AF. Redesign caused by budget overruns
- AG. Failure to make required submittals
- AH. Lack of team communication
  - AI. Expecting us to resolve subcontractor disputes
  - AJ. Failure to obtain complete site information
- AK. Project meeting attendance
  - 1. owner
  - 2. sub's
  - 3. designers

- AL. Schedule & budget
  - 1. regular meetings with above to resolve delivery & labor required
- AM. Inspection & testing
  - 1. ongoing
  - 2. timely
  - 3. prompt decisions
- AN. Coordination of owner supplied FF&E
- AO. Owner chain of command-contract and jobsite
- AP. Owner define use of site
- AQ. Owner schedule
  - 1. phases
  - 2. start date
  - 3. partial occupancy?
  - 4. final occupancy?
- AR. Owner budget
  - 1. Phase I
  - 2. Phase II
  - 3. FFE
- AS. Designer chain of command(architect, struc, mech, elec,civil,testing)
- AT. Designer dates for schematic, design development, contract D. for phase I and II.
- AU. Budget(architect, struct, mech, elec, site)
- AV. Value engineering incorporation into documents
- AW. Prompt decisions
  - 1. selection of subs
  - 2. changes
    - a) jobsite
    - b) owner requirements
- AX. Specification of products with poor representation.
- AY. Priority product on design.(physical and budgetary constraints)
- AZ. Design without consideration of cost of systems
- BA. Consideration of owner's operator needs(and wants)
- BB. Direction to proceed w/o timely change order (owner)
  - 1. Signed time sheets, etc.
- BC. Establish clear chain of command (gc, owner)
- BD. Changes - clarifications excessive (owner - design)
- BE. Excessive testing & inspection in a timely manner
- BF. Timely decision making
  - 1. RFI's
  - 2. C.O.'s
- BG. Billing breakdowns
- BH. Contingency fund for gaps or omissions in the specs & dwgs
  - 1. Fair or joint resolution of errors, omissions
- BL GC covering general conditions costs by charging subs.
- BJ. General conditions pass excessive responsibility to contractors
- BK. Timely acceptance of work
- BL. Timely response on value engineering submittals
- BM. G. C.'s pass coordination efforts on to subcontractors

- BN. More flexibility in resolving conflict issues
  - 1. Timely meetings - weekly, monthly as reqd
  - 2. Joint resolution board
- BO. Published chain of command
- BP. Timely response:
  - 1. a. RFI
  - 2. b. Approval shop dwgs.
  - 3. c. Site activity restrictions
  - 4. d. Change orders
  - 5. e. Value enrg.
  - 6. f. Acceptance of work
- BQ. Fair and/or joint interpretation of ambiguous documents
- BR. Fair evaluation of schedule extns.
- BS. Contingency fund for ambiguous plans & specs.
- BT. No directive to proceed w/o time limit or C. O.
- BU. Billing breakdown to prevent subs financing
- BV. Improper passing of General Conditions responsibility to subs
- BW. Improper and excessive testing and inspection
- BX. Periodic forum to evaluate and resolve open issues.
- BY. Slow submittal turn around
- BZ. Failure to accept responsibility for errors/omissions
- CA. Inadequate no. of staff members
- CB. GFE information provided late
- CC. GFE installation not done timely
- CD. Slow resolution of change orders
- CE. Unreasonable punch lists
- CF. Scope of changes incomplete/unclear
- CG. Communication not free and open.
- CH. Failure to recognize impact of changes on ongoing work
  - CL. Incomplete submittal information
  - CJ. Late submission of proposals
- CK. Deviations submitted that require additional review time
- CL. Excessive no. of RFI's submitted
- CM. Untimely solutions and correction to errors we make and acceptance of responsibility of same
- CN. Untimely submission of as-builts, O & M manuals, and training of user personnel
- CO. Failure to keep proper sequence of work flow
- CP. Failure to maintain free open communications w/ owner & a-e & subs
- CQ. Failure to maintain clean efficient, safe working conditions
- CR. making complete submittals
- CS. timely submission of proposals - completeness, proper scope
- CT. do your own punchlists
- CU. pre-test special systems - equip. start-up
- CV. input on schedules - being realistic - being ready for inspection & start-up
- CW. untimely proposing a solution to a problem
- CX. nick-picking of changes
- CY. o & m training & manuals - not timely
- CZ. leaving messy work areas - not sweeping floors ("Electricians don't sweep floors)

- DA. Need open line of communication - keeping general informed.
- DB. Submitting inflated proposals & negot. realistic dollars.
- DC. Do their part in Safety - (replace barricades, clean work areas, break areas, etc.)
- DD. Limit sub-contractor Alternate suggestions.
  - 1. There is a high potential for gaps & extra work that might be unknown at the time of Alternate proposal
- DE. Untimely delivery of VC information and equipment
- DF. Slow payment
- DG. Design errors and omissions
- DH. Resistance to solving problems perceived as "contractor problems"
- DI. Delay in response of RFI's & submittals
  - 1. a.) due to "zeal for perfection"
  - 2. b.) due to administrative delay
- DJ. Changes issued in incomplete form (sketches & narrative)
- DK. Slow VACO response to concurrent reviews & changes
- DL. Too many changes
- DM. Inappropriate interruptions
- DN. Inability to make decisions
- DO. Duplication of RFI's from subcontractors
- DP. "Pass through" Attitude by G.C. ie submittals, RFI's, resubmissions
- DQ. Slow "punch list" and deficiency correction
- DR. Recognition of "punch list" item vs. "non-acceptance" item
- DS. Complete "pre-tested" systems
- DT. Timely submittals
- DU. Early notification of problems and schedule changes which affect user/ owner
- DV. Prompt implementation/ dissemination of "change/ modification" information
- DW. Weak coordination of subcontractors
- DX. Failure to exercise proper Q.C.
- DY. Incomplete ' uncoordinated submittals
- DZ. "Bid Shopping": Delay selection impacts schedule
  - 1. Delay selection impacts quality
- EA. Unrealistic expectations of submittal
- EB. Better communications
- EC. Less defensiveness/ more openness
- ED. Fast dispute resolution
- EE. Don't take issues personally
- EF. Contractor review RFI's & submittals before processing
- EG. Be willing to propose/ suggest solutions
- EH. Submittal schedule
  - EL. Prioritization of submittals
  - EJ. Complete/ thorough questions
- EK. Positive attitude
- EL. Recognition of Buy America Act and other "Boiler Plate" clause impact
- EM. Recognition of Owner's need to eventually occupy, operate and maintain facility/ systems
- EN. Recognition of importance of "paper work"
- EO. Allowing necessary contract time for training

- EP. Airport development supposedly seeks input, then does their own thing anyway — making a farce of the process.
- EQ. Do not solicit, and welcome my input and question input into project development.
- ER. Give consultant far too much leeway in running their own show.
- ES. Not anticipating problems within their jurisdiction, then on short notice using our resources to correct the problem.
- ET. Poor mechanical and electrical engineering research of as built into new drawings.
- EU. Directs contractor to me on issue without talking to me before contractor does.
- EV. Do not adequately review construction documents prior to bidding — results in change orders.
- EW. Do not allow enough time to review work/ issues.
- EX. Do not communicate development and / process time frames and changes.
- EY. Don't ask things or look at thing, or decide things in terms of the customer's viewpoints.
- EZ. Don't follow up on what was agreed to.
- FA. Don't understand concept of potential cost for their wish list.
- FB. Don't want to find the compromised solution. i. e. only willing to accept their own solutions.
- FC. During construction it is very hard to get changes made if it costs more.
- FD. Fail to comprehend the complexity of maintaining an operational airport during construction.
- FE. Fail to keep me informed on matters I need to know about to do my job.
- FF. Fail to realize that the airport has to stay in operation at all times.
- FG. Failure to involve the trades in pre construction, ongoing, and post construct.
- FH. Failure to make inquiries before making decisions to proceed.
- FI. Give permission to contractor to do something that impacts me without notifying me.
- FJ. Hasn't involved the g. t. operators.
- FK. Haven't identified WHO the customer (end user) definitely (is).
- FL. Lack of clear direction.
- FM. Lack of communications between departments re: inter-related scope of work requirements.
- FN. Lack of timely response.
- FO. Leaving messes for us.
- FP. Make changes after award of contract.
- FQ. Make judgements related to my area of expertise without having the qualifications to make these judgements.
- FR. Make payment on incomplete work by accepting architectural approval of work not appropriately inspected.
- FS. None at this time.
- FT. None that I know of within this group.
- FU. Not a clear chain of command.
- FV. Not enough time to check on construction.
- FW. Not getting our input into the project early enough so that when we learn of the particulars it's too late to make critical changes.
- FX. Not recognizing impact of their changes on my work effort.
- FY. Other departments do not coordinate instructions / involvement with contractors with airport development.
- FZ. People who have little or no construction experience that try to run the show.
- GA. Properly communicate needs for changes to plans and schedules.
- GB. Raise or point out problems or issues that could have been raised or been aware of by review of bid drawings during bid period or design phase.
- GC. Second guess or backstab (on) decisions that have been made.

- GD. Some departments may request major revisions / additions to a project during construction when these items could have been discussed / resolved during the design phase.
- GE. Sometimes (do) not believe the actions and reactions of the public in construction (confusing) areas.
- GF. Surprise meeting agendas.
- GG. Timeliness of documents / answers / requirements.
- GH. Timely notification of projects requiring advance scheduling for personnel - overtime.
- GI. Understand that each member of the project team has individual and joint responsibility for successful completion of the project.
- GJ. Want changes to the project to further their interests.
- GK. Wanting changes in contract scope after the award due to inconvenience.
- GL. Direction to proceed w/o timely change order (owner)
  - 1. Signed time sheets, etc.
- GM. Establish clear chain of command (gc, owner).
- GN. Changes - clarifications excessive (owner - design)
- GO. Excessive testing & inspection in a timely manner
- GP. Timely decision making
  - 1. RFI's
  - 2. C.O.'s
- GQ. Billing breakdowns
- GR. Contingency fund for gaps or omissions in the specs & dwgs
  - 1. Fair or joint resolution of errors, omissions
- GS. GC covering general conditions costs by charging subs.
- GT. General conditions pass excessive responsibility to contractors
- GU. Timely acceptance of work
- GV. Timely response on value engineering submittals
- GW. G. C.'s pass coordination efforts on to subcontractors
- GX. More flexibility in resolving conflict issues
  - 1. Timely meetings - weekly, monthly as reqd
  - 2. Joint resolution board
- GY. Published chain of command
- GZ. Timely response:
  - 1. RFI
  - 2. Approval shop dwgs.
  - 3. Site activity restrictions
  - 4. Change orders
  - 5. Value enrg.
  - 6. Acceptance of work
- HA. Fair and/or joint interpretation of ambiguous documents
- HB. Fair evaluation of schedule extns.
- HC. Contingency fund for ambiguous plans & specs.
- HD. No directive to proceed w/o time limit or C. O.
- HE. Billing breakdown to prevent subs financing
- HF. Improper passing of General Conditions responsibility to subs
- HG. Improper and excessive testing and inspection
- HH. Periodic forum to evaluate and resolve open issues.
- HI. Slow submittal turn around

- HJ. Failure to accept responsibility for errors/ omissions
- HK. Inadequate no. of staff members
- HL. GFE information provided late
- HM. GFE installation not done timely
- HN. Slow resolution of change orders
- HO. Unreasonable punch lists
- HP. Scope of changes incomplete/ unclear
- HQ. Communication not free and open.
- HR. Failure to recognize impact of changes on ongoing work
- HS. Incomplete submittal information
- HT. Late submission of proposals
- HU. Deviations submitted that require additional review time
- HV. Excessive no. of RFI's submitted
- HW. Untimely solutions and correction to errors we make and acceptance of responsibility of same
- HX. Untimely submission of as-builts, O & M manuals, and training of user personnel
- HY. Failure to keep proper sequence of work flow
- HZ. Failure to maintain free open communications w/ owner & a-e & subs
- IA. Failure to maintain clean efficient, safe working conditions
- IB. making complete submittals
- IC. timely submission of proposals - completeness, proper scope
- ID. do your own punchlists
- IE. pre-test special systems - equip. start-up
- IF. input on schedules - being realistic - being ready for inspection & start-up
- IG. untimely proposing a solution to a problem
- IH. nick-picking of changes
  - II. o & m training & manuals - not timely
  - IJ. leaving messy work areas - not sweeping floors ("Electricians don't sweep floors)
- IK. Need open line of communication - keeping general informed.
- IL. Submitting inflated proposals & negot. realistic dollars.
- IM. Do their part in Safety - (replace barricades, clean work areas, break areas, etc.)
- IN. Limit sub-contractor Alternate suggestions.
  - 1. There is a high potential for gaps & extra work that might be unknown at the time of Alternate proposal
- IO. Untimely delivery of VC information and equipment
- IP. Slow payment
- IQ. Design errors and omissions
- IR. Resistance to solving problems perceived as "contractor problems"
- IS. Delay in response of RFI's & submittals
  - 1. a.) due to "zeal for perfection"
  - 2. b.) due to administrative delay
- IT. Changes issued in incomplete form (sketches & narrative)
- IU. Slow VACO response to concurrent reviews & changes
- IV. Too many changes
- IW. Inappropriate interruptions
- IX. Inability to make decisions
- IY. Duplication of RFI's from subcontractors
- IZ. "Pass through" Attitude by G.C. ie submittals, RFI's, resubmissions



- JA. Slow "punch list" and deficiency correction
- JB. Recognition of "punch list" item vs. "non-acceptance" item
- JC. Complete "pre-tested" systems
- JD. Timely submittals
- JE. Early notification of problems and schedule changes which affect user/owner
- JF. Prompt implementation/ dissemination of "change/ modification" information
- JG. Weak coordination of subcontractors
- JH. Failure to exercise proper Q.C.
- JI. Incomplete ' uncoordinated submittals
- JJ. "Bid Shopping": Delay selection impacts schedule
  - 1. Delay selection impacts quality
- JK. Unrealistic expectations of submittal
- JL. Poor communication between Design and Owner's perception
- JM. Lack of innovation
- JN. Closed mind (preconceived solution)
- JO. Loose specs/ drawings
- JP. Putting self interest above overall project goal
- JQ. Poor handoff between HKS/BWBR
- JR. Failure to solicit subdesign expertise
- JS. Design without feedback
- JT. Self interest ahead of quality
- JU. Failure to understand goals
- JV. Bad attitudes, poor team player
- JW. Not thinking hard enough, using easy choice instead of best choice
- JX. Making a mountain out of a molehill
- JY. Unwillingness to facilitate and /or take responsibility for design
- JZ. Loose specs/ drawings
- KA. Poor communication, design without feedback
- KB. Lack of support for value engineering, sometimes fail to seek out value
- KC. Self interest ahead of quality
- KD. Bad attitudes, poor team player
- KE. Making a mountain out of a molehill
- KF. Bad attitudes, poor team player
- KG. Making a mountain out of a molehill
- KH. Inaccurate estimate
  - KI. Failure to think ahead
  - KJ. Not having estimate on schedule
- KK. Self interest ahead of quality
- KL. Not having personnel available
- KM. Inaccurate schedules
- KN. Sometimes too anxious to please when they shouldn't be
- KO. Retrograde decision making
- KP. Unrealistic schedule (understanding process)
- KQ. Clear definition of mission/project/ budget
- KR. Defined decision making process, individuals
- KS. Clear and timely communication
- KT. Thoughtful/ meaningful review and participation in design/ program process

- KU. Inability of users to accept change
- KV. Timely delivery of info. on Owner supplied equipment
- KW. Timely response to questions
- KX. Quality info early in the planning process
- KY. Be available
- KZ. Willingness to change "office standards"
- LA. QA- from day one- (everyone is responsible)
- LB. Good conceptual planning experience
- LC. Service attitude
- LD. Lack of system based estimating vs. sf takeoff
- LE. Broad base of "system cost estimating" not relying on partial plans/ specs
- LF. Timely V.E. (proactive vs. reactive)
- LG. Timely decisions
- LH. Availability
  - LI. Firm budget (proforma)
  - LJ. Direct feedback re performance
- LK. Lack of clear consistent direction
- LL. Information re owner furnished equipment
- LM. Early decisions - work input
- LN. Game playing with deadlines
- LO. Respect for importance off hidden systems
- LP. Space squeeze
- LQ. Changes not communicated
- LR. Coordination
- LS. Two architects
- LT. Coordination communication
- LU. Timely value engineering input
- LV. Clear understanding of design criteria
- LW. Second guessing after decisions
- LX. (lack of commitment to decisions)
- LY. Spinning on minor impact value engineering items
- LZ. Clear single source of direction from owner(s) to A/E
- MA. Delays in decision making/ approvals
- MB. Reasonable time to prepare estimates
- MC. Willingness to compromise on design issues
- MD. Clear and accurate information on drawings
- ME. Willingness to consider constructability as well as design
- MF. Timely response to questions
- MG. Consolidation of design information and scheduling production of documents
- MH. Changing specs - alternatives by contractors and/or owner to reduce cost. Excessive reviews by architect results.
- MI. Late cell design impacting foundations
- MJ. Communications between owner/ Christman/ Engineer/ Architect. Holes in the loop.
- MK. Contractor responsibility not clearly defined
- ML. Contractor interaction re electrical responsibilities
- MM. Added scope without formal authority (foundations o/s building, arch.)
- MN. Owner-requested changes inside plant (machine/ cell definition)

- MO. Eng. coord.- components of cell design (DSI/MPA + contractors)
- MP. Losing initial value engineering previously accomplished due to current decisions (cost driven)
- MQ. unclear supplier responsibility
- MR. slow response to supplier/contractor questions
- MS. communication of changes to all trades
- MT. delays of preceding trades
- MU. contractor installation interference
- MV. poor housekeeping
- MW. receiving damaged materials
- MX. lack of good scheduling
- MY. unclear direction of changes
- MZ. delivery of material
- NA. late return of approval shop drawings
- NB. keep up with paperwork
- NC. scheduling around other contractors
- ND. lack of respect for other people's work
- NE. slow decisions by owner
- NF. lack of communication
- NG. design intent not fully understood
- NH. no consideration given to cost of operation of building
- NI. responsibilities not clearly assigned
- NJ. assigned scope and timing missed
- NK. no lead time for owner decisions
- NL. target dates missed
- NM. lack of priority and full attention to current project due to over commitment
- NN. failure to identify and communicate bottlenecks
- NO. poor scheduling leading to overtime
- NP. work stoppage due to labor dispute
- NQ. lack of attention to quality
- NR. lack of attention to safety
- NS. not informed of pending cost
- NT. inaccurate cost reporting
- NU. incomplete "as built" information
- NV. untimely completion of punch list items
- NW. warranty response
- NX. continuity of project management (designer, CM, subs)
- NY. untimely response to cost alternative questions
- NZ. lack of cooperation between designers and contractors or subcontractors
- OA. resistance to change
- OB. providing incomplete information (lack of detail)
- OC. making changes in design without considering impact on other trades
- OD. failure of CM to define individual responsibilities within CM team
- OE. lack of specific information provided in time to maintain schedule
- OF. changes made in field without considering impact on other trades
- OG. slow processing of submittals and drawings
- OH. not having "back-up" personnel when "lead" is absent
- OL. slow payment and job close-out processing

- OJ. late design changes
- OK. slow inspections and reviews by code authority
- OL. late contract awards
- OM. accelerating schedules without concerns for additional costs
- ON. redundant or excessive paperwork
- OO. short meeting notice
- OP. no return calls
- OQ. questions without first researching issue
- OR. late submittal of critical shop drawings
- OS. late response to change requests
- OT. asking for clarifications after the fact -need early rfi's
- OU. misinterpreting the specs
- OV. not returning phone calls and slowing down the communication process
- OW. contractors proceeding with work without consideration for others
- OX. not projecting material delivery dates
- OY. owner and A/Es not communicating potential changes
- OZ. late rejection of work in place (benchmarking)
- PA. late approvals of design changes and owner furnish equipment
- PB. late changes in project scope
- PC. putting excessive risk on CM and TC
- PD. contractors not implementing safety programs
- PE. contractors late submittals of start-up information
- PF. follow through on warranty items including close out documents
- PG. contractor substitutions without approval
- PH. design team pushing design responsibility to trade contractors
  - PI. team members failure to prepare for meetings
  - PJ. late issuance of bulletins from design professional
- PK. incomplete design and bid time
- PL. arch/eng passing design responsibility to subs
- PM. unreasonable schedules after revisions
- PN. lack of fixed floor plan
- PO. transfer of information from sub to general to other subs doesn't take place
- PP. timely approval of change orders
- PQ. availability of bidding documents
- PR. lack of design interface between design disciplines
- PS. lack of field design change information
- PT. let subs decide that bulletins to not apply
- PU. let subcontract bidders decide that addendum do not apply
- PV. Improper contract documents.
- PW. Late submission of shop drawings, quotations, etc.
  - PX. Poor interphasing of trades.
  - PY. Improper use of construction schedule - used more as a report than a tool.
  - PZ. Timely notification of required shut down.
- QA. Slow change order process.
- QB. Chain of command unclear.
- QC. Lots of owner change requests.
- QD. Unreasonable constraints - parking & site conditions.

- QE. Lack of training and demonstration.
- QF. Defining top priority items vs. low priority items.
- QG. Taking liberties in interpreting plans & specs.
- QH. Making changes without consulting with design team or other subs.
- QI. Making compromise because of failure to order materials in a timely manner.
- QJ. No anticipating a potential problem for resolution.
- QK. Poor communication with suppliers or subs in early stages of project.
- QL. Inform us for inspections in a timely manner.
- QM. Unwilling to be flexible in resolving conflicts.
- QN. Getting information from owner in a timely manner when necessary changes must be made.
- QO. Unreasonable demands from inspection agencies on interpretation of code issues.
- QP. Material size changes.
- QQ. Unrealistic schedule.
- QR. Not maintaining schedule.
- QS. Ordered materials not delivered on time or not available.
- QT. Site management re materials, equipment, storage, etc.
- QU. Info from other trades i.e. mechanical openings, curtain walls in timely manner.
- QV. Slow payment.
- QW. Weather problems.
- QX. Masonry pockets too small, not accurate.
- QY. Sequencing of material, deliveries, & order of contractors.
- QZ. Timing - job not ready when called delays causing seasonal weather problems.
- RA. Lack of storage areas causing additional trips for material delivery and location of on site storage.
- RB. Site conditions - lack of power, water, grades.
- RC. Lack of details and/or direction from a/e.
- RD. Changes made by other trades without consulting with others impacted by such change.
- RE. Lack of timely follow up on field changes with proper authorizations in writing.
- RF. Poor workmanship by trades prior to following trades causing more work or delays for others.
- RG. Processing invoices & payment in a timely fashion.
- RH. Owner deciding to make changes.
  - 1. Changes come too late
  - 2. More than 1 person making changes
  - 3. Reversing changes
  - 4. Value instructions re changes
- RI. Late response from subs.
- RJ. Slow response time related to paper work, i.e. change orders, submittals, pay requests.
- RK. Late equipment and material deliveries.
  - 1. Improper procurement procedures.
- RL. Problems not identified soon enough.
- RM. Refusal to accept legitimate change requests.
- RN. Unsafe work practices.
- RO. Unclear close out requirements.
- RP. "Passing the buck" - clear chain of command.
- RQ. Lack of communication between owner and architect.
- RR. Improper scheduling of owner-purchased items.
- RS. Inadequate plans & details.
- RT. Insufficient work area and access.

- RU. Reluctance by others to help solve problems.
- RV. Overbearing paperwork requirements.
- RW. Failure to participate in team meetings.
- RX. Pay requests late from subs.
- RY. Reluctance to keep job site clean.
- RZ. Insufficient manpower to maintain schedule - or don't show up on time.
- SA. Billing due dates.
- SB. Problem resolution (getting answers).
- SC. Clear understanding of other trades expectations.
- SD. Owner/user understanding of what they are getting.
- SE. Area clean-up.
- SF. Verbal agreements on equipment without all parties participating.
- SG. Short notice scheduling of meetings, equipment demos, and testing.
- SH. Equipment/systems not ready for test run/demo session.
- SI. Untimely delivery of owner equipment.
- SJ. Owner requested changes not processed in a timely manner.
- SK. Unreasonable requests for payment.
- SL. Failure to determine the cause of equipment or system problems.
- SM. Incomplete drawings or specifications.
- SN. Regulatory agency decisions.
- SO. Proceeding with work without considering effects on the rest of the system.
- SP. Untimely submittals - lack of review time for shop drawing.
- SQ. Too many shop drawings submitted at once.
- SR. Proceeding with construction without shop drawing approval.
- SS. Avoiding chain of command.
- ST. Request for immediate answers due to contractor lack of scheduling.
- SU. Asking concession not permitted by contract.
- SV. Inadequate supervision of subs.
- SW. Inflated request for extras.
- SX. Disrespect for level of quality.
- SY. Resolving potential field problems without engineer's input.
- SZ. Slow processing of bulletins and change orders.
- TA. Inadequate pre-submittal review of shop drawing by general contractor, mechanical, and electrical contractor.
- TB. Loose interpretation of contract documents.
- TC. Lack of communication on short term scheduling.
- TD. Not allowing sufficient time for test results.
- TE. Unwillingness to cooperate on additional activity that may be required due to test results.
- TF. Lack of communication of changes in plans and specifications.
- TG. Cooperation regarding test services.
- TH. Attempting to take advantage or intimidate.
- TI. Lack of appreciation for importance of proper sampling.
- TJ. Slow payment.
- TK. Don't say what you won't do.
- TL. Need short chain of command.
- TM. Changes without new drawing.
- TN. Reject substitution of equal products.

- TO. Approval of delays that are beyond anyone's control.
- TP. Final retainage release.
- TQ. Schedule input from all players.
- TR. Lack of care of finish work.
- TS. Time schedule; long term.
- TT. Notification of short term time schedule.
- TU. Safe access to job site.
- TV. Poor placement of stored materials.
- TW. Lack of response to possible change.
- TX. Lack of empathy from engineer regarding unknown changes in site conditions.
- TY. Lack of quality control.
- TZ. Complicated billing procedures.
- UA. Lack of constructability.
- UB. Lack of honest responses.
- UC. Unclear submittal requirements.
- UD. Slow submittal turn around time.
- UE. Lack of communications regarding submittal approvals.
- UF. Improper handling of changes to contract work.
- UG. Lack of engineers represented (field) to have authority to make decisions.
- UH. Unclear specifications that create unreasonable punch lists.
- UI. Unreasonable completion dates.
- UJ. Slow response time for user/owner in preparation of contract awards.
- UK. Failure to recognize impact of changes to ongoing work.
- UL. Poor Planning Schedule & Sequence
- UM. Little Consideration for Owners Schedule in Arranging Factory Rep Visits, Meetings, Etc.
- UN. Inadequate Coordination
- UO. Failing to Follow Plans & Specs
- UP. Untimely Submittals
- UQ. Pass Through Attitude by GC
- UR. Untimely Response to RFQ's and RFI's
- US. Untimely Delivery of Owner Equipment
- UT. Failure to Recognize th Impact of Changes on the Existing Operation of the Facilities
- UU. Failure to Accept Resposibiliy
- UV. Owner/Engineer not Recognizing Legitimate Extra Costs
- UW. Incomplete/Inaccurate Drawings..not this project...
- UX. Failures to Adequately Man Jobsits
- UY. Shop Drawing Process
- UZ. Slow Payment (Not City of Saginaw)
- VA. Requirements for Liquidated Damages, i.e. Extension Requests/Paperwork
- VB. Inadequate Jobsite Cleanup
- VC. Excessive Paperwork Requirements
- VD. Unrealistic Completion Dates
- VE. Lack of Timely Responses
- VF. Asbuilt vs. Contgract Drawings
- VG. Lack of Notification
- VH. Designation of Chain of Command
- VI. Cost Overrun

- VJ. Scheduling Delays
- VK. Passing the Buck
- VL. Attitudes
- VM. Bad Housekeeping
- VN. Lack of Communication
- VO. Untimely Notice of Backcharge
- VP. Poor Planning
- VQ. Poor Housekeeping
- VR. Sumer Help Doing Testing
- VS. Someone Who Can Make On the Spot Decisions
- VT. Slow Turnaround Time on Submittals
- VU. Forced To Work Overtime to Get Job Out of Ground
- VV. Diret Changes Without Written Directive
- VW. Failure to Recognize Impact of Someone on Ongoing Work
- VX. Un reasonable Nitpicking of Shop Drawings Causing Needlness resubmittals
- VY. Lack of Coordination in Scheduling and Shop Drawings Distribution
- VZ. Requiring Unreasonable Manpower
- WA. Drawing and Specs Not Clearly Defined
- WB. Unreasonable Punch Lists
- WC. Unreasonable demands by regulatory agencies
- WD. Failure to meet project deadlines
- WE. Short notice for project meetings & equipment demonstrations
- WF. Premature equipment demonstrations
- WG. Maintaining clean job site in residential area
- WH. Lack of communication on construction tasks which affect plant operations
- WI. Availability of subs after start up to correct problems (it's done now it's yours ..... good luck!)
- WJ. Payment requests must be made on time
- WK. Respect of owner liabilities
- WL. Prompt notification of owner of potential problems (labor, material, etc.)
- WM. Consideration for what Mother Nature can do to a job site & how that affects plant operations.
- WN. Assumptions on scope of work from previous project should not be made.
- WO. Communications (hello?)
  - 1. Timely notification of:
    - a) Concrete pours
    - b) Backfilling
    - c) Outages - electrical or process
    - d) Testing
    - e) Submittal or design change update
    - f) Progress minutes
    - g) Contractor's schedule
- WP. Submit specified equipment or construction materials
- WQ. Lack of respect for other partner's space, materials & work in place
- WR. Unclear subcontractor contracted scope of work
- WS. Changes in owner's, contractor's, engineer personnel (field & office) (udm's)
- WT. Unreasonable pay requests (20% to 50%)
- WU. Poor attitudes & previous personality conflicts.
- WV. Too many shop drawings submitted at once



- WW. Not allowing sufficient time for test results
- WX. Lack of notice for on-site testing
- WY. Lack of communication on short term scheduling
- WZ. Inflated requests for extras
- XA. Slow processing o bulletins & change orders
- XB. Inadequate review of shop drawings by G.C., electrical and mechanical
- XC. Using engineer opinion as a weapon
- XD. Avoiding the chain of responsibility
- XE. Inadequate supervision of subs
- XF. Shop drawings not submitted on time
- XG. Demanding acceptance of sub standard work
- XH. Failure to protect completed work (subs working in same area)
- XI. Attempting to take advantage (intimidate)
- XJ. Requesting immediate approval of substantial changes
- XK. Not keeping us informed of problems as potential problems
- XL. Asking for concessions not permitted by contract
- XM. Delay of resteel delivery
- XN. Timely shop drawing submittals/ turnaround
- XO. Inadequate personnel & equipment by subs
- XP. Inflexibility of design requirements
- XQ. Early & timely decision making by owners/ engineers
- XR. Slow turnaround by subs on quotes
- XS. Slow pay by owner
- XT. Owner denies legitimate changes
- XU. Multiple punchlists by owner/ designer/ engineer
- XV. Inflexibility in quality control & inspection
- XW. Late payment applications from subs
- XX. Non payment of sub's subs
- XY. Personality conflicts/ bad attitudes
- XZ. Engineer "siding" with owner
- YA. Unkept promises
- YB. Poor communication
- YC. Poor safety policies/ procedures
- YD. Poor planning during construction
- YE. Final payment - retention release
- YF. Lack of handling potential problems at bid time vs. after award
- YG. Lack of respect for input to design
- YH. Common sense in written documents
- YI. Testing turnaround (contaminants)
- YJ. Lack of field personnel being able to make on the spot decisions
- YK. Lack of construction experience for design and testing personnel
- YL. Cover your ass specifications
- YM. Contractors having to verify proposed design
- YN. Submittals reiteration of specified items
- YO. Pricing in extra work (possible change in ex. procedures)
- YP. Lack of taking responsibility for actions
- YQ. Trust

- YR. Stereotyping professions
- YS. Submittal drawings
- YT. Communications
- YU. Congestion - truck traffic control
- YV. Space - storage on job site
- YW. Clean out areas - clean out trucks
- YX. Crane usage - between suppliers & general contractor
- YY. Timely test results to supplier & QC
- YZ. Drawing discrepancies (architectural, structural, mechanical, electrical don't agree)
- ZA. Poor access roads
- ZB. Delay in change orders
- ZC. Engineer uncoordinates spec between trades leaves up to trades to resolve differences.
- ZD. When installed system is not understood, payment is stopped.
- ZE. No answers on job site in timely manner when encountered problems.
- ZF. Inte/ elect should get copy of mech. shop drawings
- ZG. If not on drawings or in specs how could you bid it
- ZH. Schedule & spec changes without informing others
- ZI. Inadequate material

**III. Problems we cause others**

- A. Not providing information in timely manner to GC, consultants, etc.
- B. Slow submittal review and turn around.
- C. Late changes to documents
- D. Failure to respond to construction questions or solve problems to assist in a timely manner.
- E. Inconsistencies and errors on documents
- F. Lack of communications with the owner on changes or developments that effect the project in the design and document phase as well as construction.
- G. Design solutions beyond budget constraints
- H. Failure to meet deadlines
  - I. Slow to make decisions
  - J. Unclear problem statement
- K. Slow to pay bills
- L. Frequent changes
- M. Inflexible, rigid attitude
- N. Failure to establish and adhere to clear communications channels
- O. Failure to educate employees/public on safety, access, etc. during construction.
- P. Poor communication
- Q. Failure to manage/lead design and construction to owners objectives.
- R. Failure to design and build to owners objectives as defined by the Problem Statement:(budget scope, quality, schedule)
- S. Failure to meet commitments
- T. Insufficient time to make required decisions.
- U. Poor communication(Inappropriate amount of written/oral communication)
- V. Disruptions of existing operations
  - 1. Access(building, parking)
  - 2. Noise and dirt
  - 3. Utilities
  - 4. Proper separation of construction and the public(employees, visitors vendors, deliveries)
- W. Failure to provide a high quality maintainable facility
- X. Hiring unqualified subcontractors
- Y. Failure to establish and adhere to a clear communication channel
- Z. Failure to properly train owner's facilities staff on building operations and maintenance
- AA. Untimely closeout
- AB. Inflexible, rigid attitudes
- AC. Failure to follow agreed upon procedures
- AD. Liens and claims
- AE. Lack of timely responses
- AF. Failure to communicate changes
- AG. Failure to fully consider constructability
- AH. Processing submittals less timely than expected.
  - AI. Failure to fully understand owners needs.
  - AJ. Lack of proper documentation of a change
- AK. Reluctance to accept responsibility for design problems(defensive)
- AL. Over optimism with regard to deadlines
- AM. Reluctance to admit that we create any problems for others.

- AN. Lack of action:
1. final decisions on subs
  2. maintaining subs schedule
  3. maintaining adequate work force
  4. maintain clean safe site
- AO. Timely
1. response to final budgets/schedules
  2. value engineering
  3. proposal request
  4. changes
  5. maintaining safe and efficient owners access to existing building-shipping and employee entrance and exiting
- AP. Maintaining schedules & cost control
- AQ. Maintaining safe & efficient access to jobsite for construction
- AR. Submission of comparable equipment
- AS. Pricing of documents that occasionally exceed the budgets, previously established.
- AT. (Failure to) notify proper personnel of changes, etc.
- AU. \*(Use) sarcasm and (exhibit) inflexibility.
- AV. \*Continually insist on a role in project development.
- AW. \*Make public comments without making my MAC counterparts aware of these comments.
- AX. \*Require lots of night work to mitigate impacts on operations.
- AY. \*Talk about consultant and airport development internally with a certain amount of sarcasm.
- AZ. Add ons.
- BA. Attend update/information meetings.
- BB. Change mind on some design issues as we see how initially completed areas may or may not function as anticipated.
- BC. Concentrate too much on budget control.
- BD. Do not inform them of cost changes to our work.
- BE. Do not involve all affected departments in some decision meetings.
- BF. Do not respond to requests from other departments in a timely manner.
- BG. Don't know.
- BH. Fail to attend project meetings enough.
- BL. Fail to respond to call for assistance in a timely manner.
- BJ. Finding time to respond to questions or construction problems that project managers want me to check out.
- BK. Have our minds made up without offering flexibility.
- BL. Haven't attended the meetings regularly.
- BM. Haven't followed up on my responsibility to brief team on my area of expertise.
- BN. I ask for alternatives.
- BO. Inform owner in timely fashion.
- BP. Insist on procedural processes being followed.
- BQ. Keeping everyone affected (informed) of the construction progress and its impact.
- BR. Lack of timely response to issues raised.
- BS. Make changes to the project at the last minute or during the project.
- BT. Mandatory insurance and/or safety recommendations.
- BU. Need to know more about the project to be able to assist when questions arise.
- BV. Point out safety concerns: code violations/ wrong materials

- BW. Provide adequate information and / or time frame in order to obtain timely responses.
- BX. Provide information after the fact.
- BY. Provide too few personnel to be able to expeditiously complete our requirements.
- BZ. Require too strict adherence to the contract documents.
- CA. Resist changes or additions to project which do not agree with our professional standards or opinions.
- CB. Take more care to be serious about issues.
- CC. The buck doesn't stop.
- CD. The construction disrupts public and airport personnel.
- CE. There must be more!
- CF. Unwillingness to get too much into detail.
- CG. Want changes made when it's too hard, too late or impossible to make them after project let.
- CH. When construction problem / incident occurs, (furnish) timely / appropriate response
  - CI. Slow submittal turn around
  - CJ. Failure to accept responsibility for errors/ omissions
- CK. Inadequate no. of staff members
- CL. GFE information provided late
- CM. GFE installation not done timely
- CN. Slow resolution of change orders
- CO. Unreasonable punch lists
- CP. Scope of changes incomplete/ unclear
- CQ. Communication not free and open.
- CR. Failure to recognize impact of changes on ongoing work
- CS. Untimely delivery of VC information and equipment
- CT. Slow payment
- CU. Design errors and omissions
- CV. Resistance to solving problems perceived as "contractor problems"
- CW. Delay in response of RFI's & submittals
  - 1. due to "zeal for perfection"
  - 2. due to administrative delay
- CX. Changes issued in incomplete form (sketches & narrative)
- CY. Slow VACO response to concurrent reviews & changes
- CZ. Too many changes
- DA. Inappropriate interruptions
- DB. Inability to make decisions
- DC. Duplication of RFI's from subcontractors
- DD. "Pass through" Attitude by G.C. ie submittals, RFI's, resubmissions
- DE. Slow "punch list" and deficiency correction
- DF. Recognition of "punch list" item vs. "non-acceptance" item
- DG. Complete "pre-tested" systems
- DH. Timely submittals
  - DI. Early notification of problems and schedule changes which affect
  - DJ. user/ owner
- DK. Prompt implementation/ dissemination of "change/ modification" information
- DL. Weak coordination of subcontractors
- DM. Failure to exercise proper Q.C.
- DN. Incomplete ' uncoordinated submittals

- DO. "Bid Shopping": Delay selection impacts schedule
  - 1. Delay selection impacts quality
- DP. Unrealistic expectations of submittal
- DQ. Incomplete submittal information
- DR. Late submission of proposals
- DS. Deviations submitted that require additional review time
- DT. Excessive no. of RFI's submitted
- DU. Untimely solutions and correction to errors we make and acceptance of
- DV. Responsibility of same
- DW. Untimely submission of as-builts, O & M manuals, and training of user personnel
- DX. Failure to keep proper sequence of work flow
- DY. Failure to maintain free open communications w/ owner & a-e & subs
- DZ. Failure to maintain clean efficient, safe working conditions
- EA. making complete submittals
- EB. timely submission of proposals - completeness, proper scope
- EC. do your own punchlists
- ED. pre-test special systems - equip. start-up
- EE. input on schedules - being realistic - being ready for inspection & start-up
- EF. untimely proposing a solution to a problem
- EG. nick-picking of changes
- EH. o & m training & manuals - not timely
- EL. leaving messy work areas - not sweeping floors ("Electricians don't sweep floors")
- EJ. Need open line of communication - keeping general informed.
- EK. Submitting inflated proposals & negot. realistic dollars.
- EL. Do their part in Safety - (replace barricades, clean work areas, break areas, etc.)
- EM. Limit sub-contractor Alternate suggestions. There is a high potential
  - 1. for gaps' extra work that might be unknown at the time of Alternate proposal
  - 2. Points identified by the owner/ user and the a/ e together.
  - 3. Deficiencies
- EN. Clear definition of musts, wants, wishes
- EO. Multiple owner rfps, one voice
- EP. Timing of CEO
- EQ. Definition of
  - 1. quality
  - 2. innovation
  - 3. state of art
- ER. Mission statement
- ES. State/regulatory approvals
- ET. Fail to provide
  - 1. Clear direction re: budget, schedule
  - 2. established decision making/ approval process e.g. timely response
- EU. Cut sheets FFE
- EV. Open book process
- EW. Fail to have fun
- EX. Challenge too late
- EY. Clear definition of what approval means
- EZ. Errors and omissions

- FA. Education of Owner
  - 1. schedule
  - 2. process
  - 3. systems
  - 4. decision making
  - 5. budget impacts
- FB. Communication in each others language
- FC. Surprises
- FD. Preconceived solutions-budget impacts
- FE. Lack of challenging Owner
  - 1. Budget
  - 2. Schedule
  - 3. Issues
  - 4. Reality
- FF. Alternative ideas/systems
- FG. Sharing goals and vision at early stage
- FH. Communicate early design needs
- FI. Narrative of systems- early on in project
- FJ. Early information
- FK. Use of gut feel judgment
- FL. Lack of understanding of Owner's goals
  - 1. poor listening
  - 2. bias
  - 3. arrogance as "experts"
  - 4. preconceived ideas
- FM. Tried and true vs. new to minimize risk works against innovation
- FN. Poor communication
- FO. Make Owner guinea pig
- FP. Weak late code research
- FQ. Use of gut feel judgment
- FR. Late or untimely info
- FS. Tried and true vs. new to minimize risk works against innovation
- FT. Poor communication
- FU. Implication of changes
- FV. Late or untimely info
- FW. Implication of changes
- FX. Late or untimely info
- FY. Delay in the submission of our work product
- FZ. Incomplete/inaccurate work product
- GA. Maintain proper team priorities
- GB. Maintain proper staffing commitment
- GC. Integrity/chemistry
- GD. Maintain procedures and user friendly format
- GE. Delay in the submission of our work product
- GF. Incomplete/inaccurate work product
- GG. Maintain proper team priorities
- GH. Maintain proper staffing commitment

- GI. Integrity/chemistry
- GJ. Maintain procedures and user friendly format
- GK. Must be candid in our review and assessment of design information
- GL. Delay in the submission of our work product
- GM. Incomplete/inaccurate work product
- GN. Maintain proper team priorities
- GO. Maintain proper staffing commitment
- GP. Integrity/chemistry
- GQ. Maintain procedures and user friendly format
- GR. Give equal consideration to all design disciplines
- GS. Delay in the submission of our work product
- GT. Incomplete/inaccurate work product
- GU. Maintain proper team priorities
- GV. Maintain proper staffing commitment
- GW. Integrity/chemistry
- GX. Maintain procedures and user friendly format
- GY. architect -lack of communication to rest of design team re bulletins etc.
- GZ. communications - causing each other problems
- HA. DSI - approval turnaround time
- HB. DSI - minimal communication re cell design
- HC. "seal" confusion
- HD. permit approval process
- HE. slow shop-drawing submitted
- HF. fabrication (improper information)
- HG. damage to other contractors' work and making their job harder to complete
- HH. slow delivery of materials
- HI. work can be unsafe for other contractors
- HJ. untimely paperwork
- HK. lack of manpower on site
- HL. not taking other contractors' problems and concerns seriously
- HM. late submittals of shop drawings
- HN. inadequate manpower
- HO. performing work without informing other trades
- HP. poor housekeeping
- HQ. not meeting schedules
- HR. getting behind in paperwork
- HS. observing safety rules
- HT. not getting materials on job
- HU. slow on closing out jobs
- HV. making equipment changes without allowing trades to review
- HW. not meeting schedule
- HX. not manning project sufficiently
- HY. not sequencing work schedule with other trades
- HZ. slow shop drawings/submittal preparation
- IA. poor housekeeping
- IB. slow pricing of bulletins/field directives
- IC. not enough quality reviews



- ID. missing meetings
- IE. not returning phone calls in time
- IF. not reviewing specifications and plans
- IG. late material/ equipment deliveries
- IH. damaging work in place
  - II. slow payment
  - IJ. untimely project changes
- IK. slow approval of designs
- IL. slow approval of change requests
- IM. failure to support project decisions
- IN. decision making responsibility not clearly defined
- IO. lack of owner contact person availability
- IP. owner furnished equipment design requirements not furnished in a timely manner
- IQ. unclear scope of work
- IR. owner indecision
  - IS. unrealistic cost expectations
  - IT. unrealistic schedule expectations
  - IU. unrealistic quality expectations
- IV. failure to communicate to contractors
- IW. failure to communicate internally
- IX. lack of attention to project
- IY. inadequate resources to support problem resolution and decision making
- IZ. poor advance planning
- JA. processing sub paperwork and payments late
- JB. overloading subs with paperwork
- JC. weak management - office and field
- JD. failure to understand trade contractors details
- JE. failure to provide answers to field questions in a timely manner
- JF. failure to adequately inform and communicate financial status of project to owner
- JG. changing project staff
- JH. adding to sub's work scope without proper consideration of costs
  - JI. not being available - not returning calls
  - IJ. unrealistic schedule expectations
- JK. failure to communicate goals of the project
- JL. expecting subs to assume risk of non-payment without sharing info about project financing
- JM. lack of positive feedback for jobs well done
- JN. no issuing all bulletins to all tc
- JO. late issue of CO to subs
- JP. late payments to subs
- JQ. late responses to rfi's
- JR. late return of shop drawings
- JS. tough contract terms and conditions
- JT. passing down design responsibilities
- JU. not informing TC of what is expected or required in a timely manner (not managing or interfacing contracts)
- JV. boilerplate specs that don't apply
- JW. not transmitting shop drawings from one tc to another tc that interface

- JX. duplication of items in specs
- JY. unclear work category descriptions
- JZ. single source materials in specs
- KA. communicating q & a to owner and a/e from tc
- KB. asking a/e for approvals after the fact
- KC. need more "that a boys"
- KD. define responsibilities
- KE. unclear definition of scope changes
- KF. untimely punch lists (rolling punch lists)
- KG. failure to communicate our needs to others
- KH. failure to inform field personnel project description, schedule, objectives
  - KI. paperwork properly attended
  - KJ. uncooperative field personnel
- KK. misfabrication of delivered product
- KL. untimely delivery for work with other trades
- KM. taking defensive position
- KN. working within our capabilities/limitations
- KO. Slow change order process.
- KP. Chain of command unclear.
- KQ. Lots of owner change requests.
- KR. Unreasonable constraints - parking & site conditions.
- KS. Unreasonable bureaucracy.
- KT. Owner's premature use of construction site.
- KU. Vague answers to field questions.
- KV. Lack of communication or not communicating in a timely manner.
- KW. Not helping subs resolve problems.
- KX. Not working with owner to resolve problems.
- KY. Not being able to compromise to resolve problems.
- KZ. Approving shop drawings in a timely manner.
- LA. Unreasonable punch lists.
- LB. Failure to complete contract on agreed schedule.
- LC. Required materials not ordered in time to allow meeting schedule.
- LD. Failure to complete all detail items - punch list.
- LE. Jobsite cooperation between trades and suppliers.
- LF. Prior commitments causing a delayed start.
- LG. Dust problems, scaffolding in the way of other trades, amount of working area required.
- LH. Finish product installed at early stage causing a protection problem.
  - LI. Not closing in or protecting from the elements the interior of the bldg so interior trades can start.
  - LJ. Not responding in timely fashion to bulletins, etc.
- LK. Not soliciting contractor involvement in scheduling.
- LL. Non enforcement of schedule.
- LM. Insufficient communication to subs and owners.
- LN. Failure to keep paperwork flowing.
- LO. Using other's equipment.
- LP. Lack of clean up.
- LQ. Communication of sequencing of work including design group.
- LR. Ordering equipment in a timely fashion.

- LS. Not processing in a planned sequence.
- LT. Indecision.
- LU. Failing to use the chain of command.
- LV. Conflicts between plans and specifications.
- LW. Lack of trust in contractor information.
- LX. Lack of timely turn around with submittals.
- LY. CYA responses.
- LZ. Not keeping up to date records.
- MA. Unable to make informed and timely decisions.
- MB. Dictating means and methods to contractor.
- MC. Inflexibility with contract documents.
- MD. Slow laboratory turn around.
- ME. Unavailability of personnel (field & office)
- MF. Lack of timely response.
- MG. Results may slow down the job.
- MH. Difference of opinion on methods and construction.
- MI. Recommendations provided in an incomplete form.
- MJ. Backcharges to others are not documented properly.
- MK. Poor review of shop drawing.
- ML. Unrealistic scheduling.
- MM. Superintendent doesn't know total project scope.
- MN. Trucks and heavy equipment rut up site.
- MO. Stubborn employees do not follow job site rules and safety precautions.
- MP. Not on time at job site, causing delays.
- MQ. Lack of quality control.
- MR. Equipment in other's way.
- MS. Problems with paper work.
- MT. Lack of honest response.
- MU. Not meeting required delivery schedules for equipment and materials.
- MV. Insufficient manpower on jobsite.
- MW. Improper management of work.
- MX. Lack of communication with general contractor at field level.
- MY. Resistance to 'accepting' problems perceived as contractor problems.
- MZ. Slow Response to Information Requests, Submittals, Approvals
- NA. Failure to Follow the Proper Chain of Command
- NB. Failure to Maintain & Distribute a Current Punch List
- NC. GC Slow to let Subcontracts
- ND. GC Slow to Follow Up On Shop Drawing Submittals
- NE. Inadequate Scheduling Backcharges to Subs
- NF. Excessive Paperwork
- NG. Poor Communication
- NH. Lack of Timely Responses
- NI. Being Late on Job
- NJ. Product Doesn't Meet Specs
- NK. Untimely Shopdrawing Submittals
- NL. Delay of Work
- NM. Job Accessibility

- NN. Not Keeping a Promise
- NO. Not Manning the Job
- NP. No Solutions to Problems
- NQ. Late Deliveries
- NR. Lack of Coordination
- NS. Not Supplying Manpower in a Timely Manner
- NT. Lack of Job Cleanup
- NU. Slow decision making
- NV. Plant operational requirements affecting construction schedule
- NW. Changing scope of design
- NX. Environmental problems
- NY. Slow review of proposed operations manuals
- NZ. Timely release of funds held in retention
- OA. Revisions to punch lists
- OB. Unavailable
- OC. Document discrepancies
- OD. Untimely shop drawing reviews & questions
- OE. Lack of experience "we don't build things, you do"
- OF. C.Y.A. documents
- OG. Rejecting/disapproving of payments/shop drawings
- OH. Slow shop drawing review
  - OI. Conflicts between specs & drawings
  - OJ. Slow response to questions
- OK. Finding an excuse to not make a decision
- OL. Inflexibility (lack of objectivity)
- OM. Lack of trust in contractor information
- ON. Attempting to dictate methods & equipment
- OO. Overreaction to liability issues
- OP. CYA responses
- OQ. Not allowing contractor to do his job
- OR. Lack of communication with our subs
- OS. Changing our schedule
- OT. Not keeping subs updated on our sequences
- OU. Insufficient short term planning
- OV. Using low bidders
- OW. Submitting voluntary alternates
- OX. Passing on sub's inflated quotes
- OY. Letting punchlist items build
- OZ. Office to field communications breakdown
- PA. High demands on testing personnel
- PB. Submittal process laxity
- PC. Space required for work
- PD. Demanding more verbal rather than written communication due to 1st person on site
- PE. Temper
- PF. Tracking
- PG. Untimely deliveries
- PH. Slow responses to change orders

Master Partnering Notes

Ralph J. Stephenson, P. E.  
Consulting Engineer  
October 7, 1993

- PI. Low strengths (concrete)
- PJ. Material in other's way
- PK. Dirt on public roadway
- PL. Communications
- PM. Manpower (lack of men to do job)
- PN. Not ready on time
- PO. Unwillingness to take construction criticism by our tradesmen
- PP. Hasty review of specs by job site foreman
- PQ. Unwillingness to work with others
- PR. Attitude "our work comes first"

**IV. Problems without source identified**

- A. work quality
- B. failure to meet schedule
- C. disruption of business
- D. unsafe site
- E. unsightly site
- F. unclear payment requests
- G. workmanship - poor and shoddy
- H. unfamiliar with drawings & specs - read before asking
- I. lack of communication between trades
- J. not enough review time for shop drawings
- K. not following drawings and specs, unauthorized subst.
- L. not following proper chain of command
- M. incomplete submittals
- N. slow payment 1st and 2nd tier
- O. changes
- P. quality
- Q. safety
- R. schedule
- S. inexperience
- T. closeout
- U. distribution of submittals - shop drawing vs. arch drawings
- V. proper advance notice for concrete pours
- W. job site access
- X. go-backs - remobilization
- Y. shop drawing turn around
- Z. carelessness of other trades
- AA. tolerances between trades
- AB. on site too soon
- AC. too many trades in one area, congested for labor
- AD. weather - lack of consideration in scheduling
- AE. slow response to rfi's
- AF. unrealistic schedules, and schedules not kept up to date
- AG. not having continuous flow of work - hopscotching
- AH. verbal changes
- AI. payment delays
- AJ. retainer payment- timely
- AK. GC unrealistic demands - e.g. scheduling
- AL. squeaky wheel gets the oil, other trade or work gets preferential treatment
- AM. onsite change order authorization
- AN. slow payment as a result of slow change order authorization
- AO. non payment for stored material
- AP. stored material off site - payment
- AQ. struct vs arch vs mech drawings ck for differences; effective checking and processing
- AR. lack of commitment to safety
- AS. hoisting area not clear
- AT. quality vs schedule; too many people needed to meet schedule and quality of labor suffers

- AU. distribution of submittals - shop drawing vs. arch drawings
- AV. proper advance notice for concrete pours
- AW. job site access
- AX. go-backs - remobilization
- AY. shop drawing turn around
- AZ. carelessness of other trades
- BA. tolerances between trades
- BB. on site too soon
- BC. too many trades in one area, congested for labor
- BD. weather - lack of consideration in scheduling
- BE. slow response to rfi's
- BF. unrealistic schedules, and schedules not kept up to date
- BG. not having continuous flow of work - hopscotching
- BH. verbal changes
  - BI. payment delays
  - BJ. retainer payment- timely
- BK. GC unrealistic demands - e.g. scheduling
- BL. squeaky wheel gets the oil, other trade or work gets preferential treatment
- BM. onsite change order authorization
- BN. slow payment as a result of slow change order authorization
- BO. non payment for stored material
- BP. stored material off site - payment
- BQ. struct vs arch vs mech drawings ck for differences; effective checking and processing
- BR. lack of commitment to safety
- BS. hoisting area not clear
- BT. quality vs schedule; too many people needed to meet schedule and quality of labor suffers
- BU. space management
- BV. interference between contractors
- BW. slow response to questions and concerns
  - BX. faster clarification
  - BY. timely return on submittals
- BZ. not advanced notice of scheduling changes
- CA. delayed response to change orders
- CB. lack of space for material storage
- CC. lack of space for unloading equipment
- CD. anything that disrupts efficient use of manpower
- CE. lengthy retainage
- CF. schedule
- CG. slow pay
- CH. interference from other trades
  - CI. mason contr put up walls no communication
  - CJ. poor specs/ drawings
- CK. statements from archs intent-impliede
- CL. approved shop drawings turnaround time, expectations on next day delivery once approved
- CM. lack of communications, void by subcontractors
- CN. void in general
- CO. work scheduling changes

- CP. not enough space to fit all systems required
- CQ. set up & staging space
- CR. prompt pay vs usual (greater than 30 days)
- CS. retainer excessive & length of time
- CT. overall time schedule not followed
- CU. improper utility disconnects improper
- CV. safety 7 poor housekeeping
- CW. personality of job supt and workers
- CX. attitude autocratic
- CY. access to site -water, demarkation
- CZ. quick answers - changes
- DA. payment processing including closeout
- DB. contract interfacing, start and stop points
- DC. contingencies, things that end up on our list
- DD. consideration for weather
- DE. project chain of command
- DF. strong communication and interaction between trades
- DG. poor workmanship that affects our work
- DH. work in place damaged by others
  - DI. scheduling continued contact with accurate target dates
  - DJ. project management
- DK. clean-up site maintenance
- DL. onsite storage for product



**V. Recommendations for improving**

- A. Communications: Establish and follow appropriate communication paths and methods for effective and timely decision making.
- B. Scope: Clearly communicate and discuss the Program Problem Statement to ensure understanding by all team members (and encourage feedback)
- C. Scope: Develop and process schematic documents fully reflective of the problem statement (Outline plans and specifications.)
- D. Develop and implement an alternate conflict resolution strategy.
- E. Pay invoices properly submitted in a timely manner.
- F. Seek to maintain good job morale and attitudes.
  - 1. Promote partnering attitudes
  - 2. Have fun
  - 3. Have pride in your product
- G. Closeout project quickly and completely.
- H. Communication
  - 1. Open communications with respect to progress and changes as project evolves.
  - 2. Effective and/or timely communications through established chain of command.
  - 3. Maintain quality and quantity communications.
- I. Budget
  - 1. Clearly identify total budget and its individual elements.
  - 2. Interaction with owner, design team and contractor to maintain the established budget.
- J. Schedule
  - 1. Clearly identify target dates
  - 2. Meeting target dates.
- K. Quality
  - 1. Maintain highest quality of performance and product throughout project
  - 2. Maintain quality control
- L. Program requirements
  - 1. Satisfy owner's needs
- M. Establish effective communications
- N. Determine and understand expectations of other team members.
- O. Establish a mutually acceptable schedule.
- P. Provide timely responses to requests of other team members.
- Q. Remain open to the ideas and approaches of others.
- R. Recognize the needs of other team members.
- S. Provide accurate and timely budgets
- T. Maintain established schedules
- U. Maintain high level of communication with all team members
- V. Maintain continued effective direction to all subs as it relates to quality and schedule.
- W. Keep updates on delivery of supplies equipment and materials.
- X. Maintain open lines of communications
- Y. Limit cost growth
- Z. Minimize substitutions
- AA. Suggest efficient methods and technology's
- AB. Be proactive
- AC. Maintain the owner's best interest throughout.
- AD. Have an open line of communication

- AE. Develop cost saving measures
- AF. Prompt resolution of conflicts at lowest possible level
- AG. Minimize paper work
- AH. Minimize submittal and response times in all matters
  - AL. Objective attitude toward constructability
  - AJ. Promotion of partnering attitudes at all levels of contract administration
- AK. No lost time due to accidents
- AL. Have fun
- AM. Meet design intent
- AN. Recognize value of information
- AO. Pride in product
- AP. Maintain clean, efficient, secure work site
- AQ. Eliminate need for contracting officer decisions
- AR. Fair interpretation of ambiguities
- AS. Limit cost growth
- AT. Empathy in all matters
- AU. Use proactive (not reactive) approach to problem solving
- AV. Accept responsibility for your actions or inactions
- AW. Properly staff project
- AX. Maintain proper work sequence
- AY. Prompt job close out
- AZ. Clearly describe contract changes
- BA. Do it right the first time
- BB. Be a good neighbor
- BC. Charter objectives - suggested groupings - derived from above - check for duplicates
  - 1. Maintain open line of communications
    - a) Have an open line of communication
    - b) Recognize value of information
    - c) Minimize submittal and response times in all matters
  - 2. Keep paper and administrative work to a minimum
  - 3. Develop and implement alternative conflict resolution system
    - a) Prompt resolution of conflicts at lowest possible level
    - b) Eliminate need for contracting office decisions
    - c) Fair interpretation of ambiguities
    - d) Be proactive (not reactive) in problem solving
    - e) Objective attitude toward constructability
    - f) Accept responsibility for your actions or inactions
    - g) Have empathy in all matters
    - h) Clearly describe changes to contract work
  - 4. Limit cost growth
    - a) Develop cost saving measures
  - 5. Maintain clean, efficient, secure work site
    - a) No lost time due to accidents
    - b) Properly staff project
    - c) Be a good neighbor
  - 6. Seek to maintain good job morale and attitudes
    - a) Promotion of partnering attitudes at all levels of contract administration

- b) Have fun
- c) Pride in product
- 7. Commit to quality control in all project related matters
  - a) Do it right the first time
  - b) Maintain proper work sequence
  - c) Meet design intent
- 8. Close out job in proper and timely manner
- 9. Maintain and implement a performance evaluation system
- BD. Adequately warn owner of operational impacts so that alternatives to remain in operation can be found.
- BE. Agree to readily and openly review any and all suggestions for improvements to the project.
- BF. Be better informed on jobs upcoming - with time for research.
- BG. Be more open-minded to new thoughts - i. e. partnering.
- BH. Be more willing to share project information.
- BI. Communicate with other departments to the extent that all departments are informed to their responsibilities.
- BJ. Cut down my other responsibilities to allow more time to devote to construction projects - or - delegate another member of department to watch a designated project.
- BK. Determine or inquire as to what is adequate information.
- BL. Do my part to keep open communications.
- BM. Everyone cooperate with an open mind regarding project design, construction and future operation.
- BN. Express concerns early; back it up with facts, and think of the MAC as a whole.
- BO. Keep an open mind toward needs of others; respect others agendas and opinions.
- BP. Keep open communications from all parties.
- BQ. Keep up a timely response to paper work.
- BR. Let's meet frequently, compare notes, and see how we can make each other's jobs easier.
- BS. Maintain consistency of decision making.
- BT. Make sure I send somebody to meetings to represent department if I can't go.
- BU. Open communication and respect for one another.
- BV. Open, timely communication of plans and needs.
- BW. Provide prompt attention to issues.
- BX. Push to get the job done right commensurate with performance.
- BY. Think ahead - foresee problems.
- BZ. to be available when necessary for communication of needed items.
- CA. "I'll get busy and carry out my responsibility while you review every action in view of its "benefit" to the customer.
- CB. \*Include trades and risk department in pre/ongoing/ post const.
- CC. Better communications
- CD. Less defensiveness/ more openness
- CE. Fast dispute resolution
- CF. Don't take issues personally
- CG. Contractor review RFI's & submittals before processing
- CH. Be willing to propose/suggest solutions
  - CI. Submittal schedule
  - CJ. Prioritization of submittals
- CK. Complete/thorough questions

- CL. Positive attitude
- CM. Recognition of Buy America Act and other "Boiler Plate" clause impact
- CN. Recognition of Owner's need to eventually occupy, operate and maintain facility/systems
- CO. Recognition of importance of "paper work"
- CP. Allowing necessary contract time for training
- CQ. flow chart and define the flow of drawings and job related documents, to make more effective (simplify?). Include turnaround commitment.
- CR. define level of detail for each drawing phase
- CS. allow time for value engineering for suggested alternates
- CT. Christman (?) "own" the building/ dom. contractor "commonization" problem
- CU. publish cell design information
- CV. develop a "strict" chain of command for quick decision making
- CW. take responsibility for knowing the "up-dated" progress schedule
- CX. attendance at progress meetings
- CY. proper communications between trades and CM
- CZ. maintain "teamwork" attitude
- DA. provide daily housekeeping
- DB. establish priorities
- DC. good documentation
- DD. timely responses to all inquiries
- DE. general awareness of other contractors work
- DF. maintain good communications
- DG. exercise openness to all parties concerned
- DH. daily clean up on job
  - DI. review manpower and schedules on a daily basis
  - DJ. prioritize work schedule
- DK. make sure all equipment or supplies are as specified
- DL. minimize submittal requirements
- DM. self-generated punch list
- DN. 5-minute stand up meetings daily by field tradespeople and supervision
- DO. review installation techniques prior to start
- DP. stress respect for other trades' work
- DQ. perform scheduled housekeeping
- DR. project manpower/ material requirements accurately
- DS. expedite submittals based on priorities
- DT. define submittal priorities
- DU. share submittal information with all trades affected
- DV. adopt prompt pay clause
- DW. perform quality specification review before, during and after process
- DX. provide advance notice of project meetings, written schedule if possible
- DY. provide personnel responsibilities in writing
- DZ. consider total quality in evaluating design/installation costs
- EA. pay attention to short term scheduling each day/ week
- EB. share fixed cost resources on site
- EC. invite safety reviews by MIOSHA
- ED. define outstanding design issues quickly
- EE. clearly resolve responsibility conflicts and assignments

- EF. maintain prompt payment system
- EG. prioritize approval activities
- EH. prompt follow up on problem resolving highlighted in review meetings
  - EL. maintain open issue log
  - EJ. be accessible
- EK. eliminate ambiguities
- EL. encourage interaction between contractors in team atmosphere
- EM. set excellent standards in quality
- EN. effectively communicate in writing
- EO. remain sensitive to timing needs
- EP. provide all team members with clear understanding of responsibilities, flow chart, organization chart
- EQ. specify / determine turnaround time (realistic/ necessary) for RFIs
- ER. educate team to specific needs/ design of all process equipment
- ES. prioritize submittal requirements
- ET. address all a/e and subcontractor concerns with respect in a timely manner
- EU. develop a clear procedure to facilitate prompt payment of invoices
- EV. issue timely goals/objectives for weekly activities. progress mtgs., field activity, etc.
- EW. establish team commitment toward safety is #1 priority
- EX. resolve all issues in professional, non-personal, timely manner. win/ win. fair.
- EY. better tracking of information requiring response (bulletins, RFIs, etc)
- EZ. expedite information and changes
- FA. clearinghouse for information
- FB. cost benefit analysis of changes (operations vs. construction)
- FC. communicate schedule changes and req'd
- FD. priority of project issues
- FE. contractors define particular "hold-up" items (single source, equipment, etc.)
- FF. owner acceptance of alternate manufacturer
- FG. resolve disputes in a timely manner
- FH. analyze shop drawings as to effects on other TCs and issue
  - FI. more "atta boys"
  - FJ. more attention to "quality control" (benchmarking)
- FK. A/Es begin "rolling punch lists"
- FL. implement safety programs
- FM. well defined chain of command at Christman
- FN. value engineering
- FO. revert back to AGC/ AIA documents for contracts
- FP. get design decisions behind us as quickly as possible
- FQ. keep testing current
- FR. publish given project rules and expectation and stick to it
- FS. Conduct a thorough plan review.
- FT. Prioritize submittals, establish time frames.
- FU. Train everyone on proper use of schedules.
- FV. Better communications, identify shut downs in schedules.
- FW. Submit bulletins and quotations as soon as possible.
- FX. Clarify chain of command, identify single source responsibility.
- FY. Limit unnecessary change requests.

- FZ. Communications (establish).
- GA. Appropriate training and to the right people.
- GB. Limit use of construction site until project is substantially complete.
- GC. Formulate critical path.
- GD. Ongoing communication with design team, owner & contractor.
- GE. Take time to review shop drawings and answer questions.
- GF. Be reasonable in resolving problems.
- GG. Set up a chain of command and follow thru.
- GH. Communicate.
- GI. Monday or Friday progress meetings - on site.
- GJ. Expedite contracts (P. O.) & field orders - change orders.
- GK. Willingness to cooperate with other trades.
- GL. Prioritize all work areas.
- GM. Prompt answers to field problems by all trades and owners.
- GN. G.C. to have a better communication with trade as to the exact status of project when calling for work to start.
- GO. Plan for better storage by communicating with trades that require on site storage - either on site or within building project.
- GP. Provide elect. & water A. S. A. P.
- QQ. Identify and initiate solution to problems. Lack details or potential problems by communication with all parties as early as possible. Follow-up with solution & detail by A/E.
- GR. Follow chain of command.
- GS. G. C. should keep close tabs on various trades so problems later on are kept to a minimum.
- GT. More productive progress meetings.
- GU. Better communication and respect of other trade's work.
- GV. More accurate planning of specific trades as to start dates and warning of any changes in schedule.
- GW. Cash flow - timely payments.
- GX. Be timely and concise with requested changes.
- GY. Be less dogmatic in paperwork requirements.
- GZ. Subs need to show up at appropriate meetings & get involved.
- HA. Let us know about problems immediately.
- HB. Designate clear responsibilities and decision makers.
- HC. Sub's field people need office support.
- HD. Maintain job staffing (consistency).
- HE. Provide skilled and trained personnel (safety and quality).
- HF. Provide adequate and safe equipment and tools.
- HG. Timely documentation of meetings and follow up.
- HH. Timely notification to subs of expectations (schedule, submittals, manpower).
- HI. Self motivating subs and team members.
- HJ. Solicit sub involvement in schedule.
- HK. Provide reasonable space for construction.
- HL. Communications.
- HM. Strong leadership i. e. G. C.
- HN. Establish and maintain good communications. Provide directory of contact people.
- HO. Use proper chain of command.
- HP. Provide information to assist in project scheduling. Follow schedule as closely as possible.

- HQ. Recognize owner's need to maintain overall system operation during project.
- HR. Maintain a clean, safe project site.
- HS. Establish punchlist procedures.
- HT. Maintain project documentation.
- HU. Maintain effective communication.
  - 1. Involve all parties in decision making.
  - 2. Develop progress meeting agenda in advance.
  - 3. Hold monthly progress meetings and publish meeting minutes.
  - 4. Be available.
- HV. Submittals.
  - 1. Agree on submittal procedures and guidelines.
  - 2. Proper distribution of submittals.
  - 3. Response to submittals in timely manner.
- HW. Site management.
  - 1. Maintain clean and safe site.
  - 2. Understand and perform job responsibilities.
  - 3. Be sensitive to adjacent businesses.
- HX. Problem resolution.
  - 1. Attempt to resolve dispute at originating level quickly.
  - 2. Agree on a conflict resolution team in advance.
  - 3. Treat each other fairly.
- HY. Project administration.
  - 1. Maintain and distribute current, short term and long term schedules.
  - 2. Maintain high level of documentation.
  - 3. Develop and distribute administrative chart on the project.
  - 4. Avoid unnecessary paper work.
  - 5. Fair assessment of extras and claims.
- HZ. Communication - maintaining effective communication regarding
  - 1. Schedules
  - 2. Changes
- IA. Strive to maintain appropriate level of documentation.
- IB. Timely response and follow-up.
- IC. Commitment to mission and objectives (i.e.: maintaining partnering effectiveness)
- ID. Commitment to resolve disputes in a timely, cooperative manner.
- IE. Follow the plans and specifications according to contract terms.
- IF. Respect for other's work.
- IG. Cost management.
- IH. Trust that all project members are working towards the mutual goal of completing the project in a professional manner.
  - II. Maintain a safe, clean, well-managed workplace.
- IJ. Payment.
  - 1. Approval process set.
  - 2. Names of players.
  - 3. Timetable after approval.
- IK. Schedule.
  - 1. Overall (all players).
  - 2. Weekly schedule (field set).

- II. Submittals.
  - 1. Schedule of when requested (all players).
  - 2. Complete (all parts).
- IM. Quality control & Safety.
  - 1. Safety representative (elected).
  - 2. Site audit.
  - 3. Site housekeeping.
- IN. Communication.
  - 1. Set chain of command.
  - 2. Distribution of information.
  - 3. Follow through on commitment.
- IO. Communication system that is timely, properly channeled through the right personnel, and backed up with documentation.
- IP. Schedule start time and sufficient time to complete project according to plans and specifications.
- IQ. Timely payment to all: contractors and subcontractors.
- IR. Prepare submittals that are in conformance with contract document specifications.
- IS. Provide communications with engineer to eliminate extensive punch lists.
- IT. Provide realistic delivery dates for equipment and materials.
- IU. Provide a realistic progress schedule along with updates to monitor project progress.
- IV. Encourage value engineering for both owner and contractors benefit.
- IW. Provide quality management at all levels - field and office.
- IX. Providing direct communications with sub-contractors and equipment suppliers.
- IY. Conform to all safety requirements as required by MIOSHA.
- IZ. Communicate with owner to satisfy his operation requirements.
- JA. Be considerate of all parties' roles in the project
- JB. Maintain good communications
- JC. Resolve disputes fast
- JD. Prioritize submittals
- JE. Develop and maintain an organization chart for the project
- JF. Recognize the importance of project records and their accuracy
- JG. Follow established chain of command
- JH. Provide information to develop, maintain and adjust a project work schedule
  - JI. Know the job.
  - JJ. Be aware of the other participants' problems and concerns
- JK. Expedite/prioritize shop drawings
- JL. No backcharges without discussion
- JM. Distribute "Job information sheet" which contains among other things, the UDM's for each organization
- JN. Adequate scheduling
- JO. Maintain prompt Pay
- JP. Provide proper manpower
- JO. Open/maintain lines of communication
- JR. Delete "coordinate" from professional vocabulary
- JS. Safety/housekeeping starts at the gate.
- JT. Honesty
- JU. Better communications
- JV. Problems solved when encountered



- JW. Written notification within 48 hours for cleanup
- JX. Commitment to resubmit shop drawings w/ in two days
- JY. If you knowingly are going to have a delay, contact the other parties ahead of time
- JZ. Sub to talk directly to AE with permission of GC
- KA. Audit eachother's work (problem & schedule)
- KB. Keep commitments (I'll be there Monday")
- KC. Work as a team
- KD. Maintain clean site (dumpster)
- KE. Priority of submittals
- KF. Back charges, none
- KG. Issue contracts and change orders in a timely manner before commencement of work.
- KH. Maintain open communications
- KI. Have shorter turnaround on shop drawings, RFQ, RFI
- KJ. Review solutions to problems with better attitudes--open mind
- KK. resolve disputes fast
- KL. make sure job is properly manned and managed
- KM. identify and follow chain of command
- KN. Communications
  - 1. visible owner involvement - 1
  - 2. regular team progress meetings & minutes - 1, 2, 3, 7, 8, 6
  - 3. prepare and publish organizational chain of command (with ph. and fx.) - 1, 2, 5, 3, 8, 6
  - 4. establish procedures for problem solving - 4
  - 5. have regular project meetings - 4
  - 6. prepare and publish current work schedule regularly - 4
  - 7. prepare and publish organization chain of command - 4
  - 8. clearly defined scope of work - 5
  - 9. meet with related trades early to discuss job - 5, 3
  - 10. develop, share project concept - 3
  - 11. safety meetings - 7
  - 12. better communication with subs and owners - 7
  - 13. list of supt. names and numbers - 8
  - 14. communicate spirit of cooperation to organization - 6
- KO. Paper and Administrative work
  - 1. Prepare complete and accurate submittals and shop drawings in a timely manner - 1, 4, 3, 7, 8
  - 2. prepare, publish simple time and standard procedures for payment, change orders and other paper/ administrative work - 1, 4, 5, 8, 6
  - 3. prepare and publish close out procedures for all trades (include early ) - 4, 5, 7
  - 4. publish workable schedule - 5
  - 5. paperwork and procedures meeting - 3
  - 6. questions in writing - 3
  - 7. keep delivery dates - 7
  - 8. be responsive - 7
  - 9. policies and procedures - 7, 8
  - 10. keep to minimum - 8, 6
  - 11. closeout procedures - 8
  - 12. letter of substantial compliance - 8

13. processing revisions - 8
14. submit questions in writing - 6
- KP. Alternative Dispute Resolution - ADR
  1. general contractor to appoint resolution task force - 1
  2. resolve dispute at lowest level (step negotiations) -1
  3. establish procedures for problem solving -2, 8
  4. maintain partnering evaluation -5, 8
  5. honest, open communication -5
  6. recognize the decision of selection committee -5
  7. task force defined -3, 6
  8. clearly define scope of work -8
  9. task force regular meetings -8
- KQ. Cost growth
  1. encourage value engineering - 1, 2, 3 (provide incentives), 8
  2. consider cost savings, containment, incentives -1
  3. approval required for changes with costs identified - 1
  4. identify and resolve cost growth problems early - 1, 2, 5
  5. hold changes to a minimum - 1, 4, 5, 3, 8
  6. identify, decide, process and pay for changes promptly - 4
  7. consider offering incentives (cost containment) - 4, 5
  8. process changes promptly - 5, 3, 8
  9. pay changes promptly - 5, 8
  10. cost decisions promptly - 5
- KR. User group
  1. complete O & M manuals on time - 5, 8, 6
  2. minimum owner disruption - 5, 8, 6
  3. thoroughly train owner personnel in operation of bldg systems - 6
- KS. Good work site
  1. plan and organize (p&p) site layout and organization - 2, 4, 3, 8, 1
  2. keep disruptions to existing at a minimum - 2
  3. maintain a safe site - 2, 5, 7, 6
  4. maintain a secure site - 2, 5, 3, 8, 1
  5. each contractor supply own site safety plan - 2, 1
  6. maintain a clean, safe and secure site with proper heating and lighting - 4, 8
  7. be a good neighbor - 4, 6
  8. have regular safety meetings - enforce on lowest level - 4, 7 (weekly)
  9. keep disruption to owner's operations to a minimum - 4, 3
  10. job morale and attitude - 4
  11. prepare guidelines for site maintenance - 5
  12. program for proper/temporary light and heat - 5, 7
  13. prepare and publish safety and housekeeping program - 3
  14. good housekeeping - 7, 6
  15. controlled and scheduled access and egress - 8
  16. keep site clean including streets - 1
  17. safety meetings attended by all works on sight - 1
  18. weekly safety inspections - 1

**KT. Job Morale & Attitude**

1. stress and encourage pride and workmanship - 6, 1
2. recognize & reward good work - 8, 6, 1
3. respect other trades - 7, 1
4. honest admission of mistakes - 7
5. honest and open communication - 7
6. be a good neighbor - 7
7. employee conduct guidelines - 8
8. incentives - 8
9. address the problem not the person - 8
10. solicit ideas and suggestions for improvement in the field - 6
11. weekly team building sessions - 1

**KU. Quality Control**

1. prepare and publish expected standards of quality - 4, 1
2. monitor and report on quality regularly - 4, 6, 1
3. value engineering - 5, 1
4. use qualified personnel - 5, 7, 8
5. quality a priority - 5, 7
6. check product/ material for accuracy before installation - 3, 6, 1
7. check worksite for accuracy and quality - 3
8. develop quality control program/ performance review program - 3, 1
9. make a safety plan - 7, 8
10. professional testing and inspection - 8
11. maintain optimum working conditions for work being done - 8
12. treat this project as if you were the owner - 6

**KV. Close out properly**

1. schedule project closeout list and trade items - 3
2. prepare and complete punch list prior to occupancy - 6
3. maintain as builts throughout project - 6
4. timely release of retainage - 6
5. establish ground rule for all trades early and publish closeout procedures - 1
6. inventory of warranties and their terms and conditions lists - 1
7. OMM presented in timely manner and fully explained - 1
8. cooperation in transition of owner possession of equipment and building - 1

**KW. Maintain partnering evaluation**

1. honest, open communications - 4
2. acknowledge and accept problems that you cause - 4, 3
3. use better communications techniques with other subs and owners - 4

**KX. Submittal process**

**KY. Payment**

1. pay promptly - 4, 3, 7
2. invoice proper amounts - 4
3. set rigid payment and request schedule - 3
4. prepare and publish accurate schedule of value of subcontracts - 3
5. hold retainer to minimum - 7
6. timely prep of invoices - 6
7. prompt processing for application of payment - 6

- KZ. Legal matters
- LA. Planning and scheduling
  1. prepare & publish work schedule and update regularly - 1, 2, 7, 8, 6
  2. obtain early approvals on long lead items - 3, 7
  3. order materials in a timely manner - 3
  4. prepare realistic schedule w/ input from all parties - 3
  5. attend all job meetings - 7
  6. start on time - 7
  7. keep delivery dates - 7
  8. meet with related trades - 7
  9. sub input on critical path schedule - 8
  10. weekly updates - 8
  11. be prepared to mobilize with notice - 8
  12. be sure site is ready for contractor - 8
  13. plan ahead for material purchases - 8
- LB. Policies and Procedures
  1. education on paperwork necessary and proper procedures/owner requirements - 8
  2. field change orders - 2
- LC. Processing Revisions
  1. clearly defined scope e of work and costs - 1
  2. establish streamlined process to make quick decisions and resolve problems - 1
  3. timely communication of work changes - 1
- LD. Be a good neighbor
  1. keep streets and site clean - 1
  2. be aware of noises for residents and school - 1
  3. be more respectful of other trades - 1
  4. all trade employees maintain professional relationship with FM employees and public - 1
  5. no alcohol or drugs on site - 1
- LE. Constructibility
  1. clearly defined scope - 5
  2. allow input from subs in advance - 8
  3. materials easily attained - 8
- LF. Establish a final budget
- LG. Determine who/how FFE will be purchased
- LH. Prepare and publish submittal process
  - LI. P and P proposal request, review and approval process
  - LJ. P and P proposal request, review and approval process
- LK. Establish formal medical staff review process
- LL. Provide for review of plans/specs etc. to insure good documentation
- LM. Establish a community project review process
- LN. Provide a formula process to allow opportunity for all to review/input
- LO. Reconfirm design objectives by 3/11 meetings
- LP. Establish conflict resolution format
- LQ. Idea clearing house to act on all ideas
- LR. Establish life cycle cost for significant systems
- LS. Cooperation
- LT. Attention to detail

- LU. Communication
- LV. Establish budget schedule, and scope
- LW. Define
  - 1. Innovation
  - 2. User friendly
  - 3.
- LX. Develop a multidiscipline quality plan, do it right the first time
- LY. HKS to BWBR hand off
- LZ. Attitude- I want to help you perform your job successfully
- MA. Attitude-Have to have fun
- MB. Review/ input/ approval, define formal process of Owner
- MC. Maintain partnering effectiveness
- MD. Be a good listener
- ME. Define corporate image to be projected
- MF. Provide complete and accurate CDs
- MG. Define Q/ A expectations and process
- MH. Define schedule for information exchange between disciplines
- MI. Document/ communicate design decisions
- MJ. Maintain positive attitude
- MK. Define decision making process re: design issues
- ML. Establish quality assurance program
- MM. Establish relationship between team members outside of daily work
- MN. Establish agreed upon estimating procedures environment to allow each team member to succeed
- MO. Create are environment to allow each team member to succeed
- MP. Have all team member tour owner (and other) health care facilities
- MQ. Establish decision making guidelines
- MR. Establish target date for owner occupancy
- MS. Establish procedure to evaluate drawings conformance with program and VE requirements

**VI. Individual mission statements**

**A. #1**

1. abd  
To complete the project with a minimum of conflict with labor unions internal and external to the mac.
2. 987  
To work with the contractors involved with the project. To help resolve questions and problems, in a timely fashion, working with the architect and engineer. And to try to help the contractors maintain their schedules.
3. abc1  
Fire safety during construction physical injury prevention. All systems & construction according to state building & fire codes as well as life safety codes. Final operational check of all systems upon completion.
4. 945  
Greater satisfaction on the part of ground transportation customers of the airport.
5. -  
To keep the front of the Lindberg Terminal operating smoothly & safely with a minimum of disruption to the public.
6. zz top  
Most important result:  
within budget  
safety to workers & travelling public (no major accidents)
7. 130  
Project completed on-time, within budget in safe manner while maintaining a semblance of normal activities in project area.
8. 123a  
See to it that this project is completed within the timeframe and at or under the given budget.
9. 224  
A totally functional mechanical systems.
10. 123b  
Complete the GT4 Upper Level Roadway project with the least disruption to the normal operations of the airport.
11. nak  
To provide a safe construction program comparable with the work area & environment on time & within budget.
12. 954  
This project will be completed without significant impact to the environment and with minimal inconvenience to the travelling public.
13. abc2  
Safety: the safe and clean worksite with no hassle.
14. pt2  
Areas of concern:
  1. scheduling
  2. involvement
  3. quantities
  4. flexibility

- Interpret/assist the owner and contractors' understanding of the traffic opportunities to minimize disruption and impact to the general travelling public.
15. tc7  
This project needs to be absolutely safe by having safety come before all other decisions on this project.
  16. gjv  
To assist the construction team such that the engineering subcontractors can successfully complete their work on schedule & within the project budget.
  17. rab  
The most important result to be achieved by this project is the construction of an attractive, functional, low maintenance upper level roadway that will adequately serve airport users for many years.
  18. dlh  
Improve safety and convenience to the travelling public.
  19. cwf  
Complete the project work on time with the quality standards met. Keep the construction and public safety incidents to an absolute minimum. Coordinate the construction with the public use of the airport facilities.
  20. wlh 9822  
Fully acquaint the public, tenants, and users of the temporary inconveniences and ultimate benefits of the GTC project.
  21. r2d  
Project completion within schedule and budget, with no significant impacts to the travelling public.
  22. wpg  
Create the most user-friendly, comfortable method of getting people to (their ground transportation) the terminal.
  23. ret  
To cause as little as possible disruption to general public as is possible.
  24. meh  
The safe & efficient movement of people utilizing the GTC
  25. rr  
Review drawing to find problems, conflicts, proper materials, meet mac standards. Better way of doing job, location of equipment. Electrical equipment to do job the way we want it.  
Coordination with contractors  
Inspection - done according to documents  
work done has been done
  26. 1x3  
To facilitate a safe and more rapid movement of people from terminal off airport and visa-versa.
  27. 666  
Attaining the most safe, efficient, maintenance-free project during and lasting after the project's completion.
  28. pjr  
The single most important result for my group is that this project be litigation-free & that adversarial relationships are not fostered.

29. xvw  
To successfully inform airport users of construction impacts to maintain pedestrian & vehicular operations during a safe construction period.
30. 01  
To work as a team and produce a quality project through a program of trust, integrity and cooperation.
31. 02  
To work together in a team atmosphere, communicate openly, and cooperate fully in the construction of a high grade quality building that we can be proud of upon its timely completion.
32. 03  
Completion of a quality facility with appropriate benefits to all participants without legal disputes and in a manner that is enjoyable to all.
33. 04  
To insure that our goals and objectives are totally met, within the framework and intent of the contract documents, in a comfortable, safe, and conflict free environment.
34. 05  
We as a team seek to create a quality product, maintaining both sensitivity and integrity of design, a facility constructed in a cooperative spirit, on schedule, resulting in an equitable/pleasant experience for all.
35. 06  
Work together in an enjoyable manner to produce a project where each partner would be proud to accept personal responsibility for quality, cost, time for completion and functionality.
36. 07  
Cooperate through communication and timely performance to create a quality product within the allotted time and within budget.
37. 08  
Safely deliver a quality product in sequence, on time and under budget.
38. 09  
Having an open line of communication in an effort to construct the project on time, within budget, safely and without adversarial relationships.
39. 10  
Acting as a "team", complete construction and activation on time with quality, recognizing each player's need for reasonable profit.
40. 11  
Work together to produce a high quality project in a win/win partnership.
41. 12  
Recognizing our common objectives we agree to strive together to construct on time and within budget the VAMC, Detroit project to the highest quality standards commensurate with its mission of serving veterans and the community.
42. 13  
Produce the quality facility on time, within budget, without accidents, without litigation and have fun doing it.



43. 14  
To agree on practical goals and objectives that will be acted on throughout the project - no matter how few, rather than glowing, flowery platitudes that will never be realized.
44. 15  
Complete this project in a manner we can all be proud of with respect to everyone's expectation in a spirit of cooperation.
45. 16  
We commit to produce the construction of VAMC, Detroit on time, within budget recognizing the realistic goals of all participants in a way each one of us and our organizations, can take pride in.
46. 17  
To ultimately provide a state of the art health care facility for veterans in a manner such that the construction is completed safely, on time, within budget and without major disputes or litigation, and meets the goals of the participants.
47. 18  
To produce a quality job on time and within budget and enjoy doing it.
48. 19  
The mission is - through cooperation, communication and understanding build and activate a medical facility that results in pride and satisfaction for all involved parties.
49. 20  
To work together as a team to produce a high quality, functionally complete medical facility, on time as designed.
50. 21  
Construct a quality building on time, within budget, with safe working conditions and no claims.
51. 22  
To work together as partners to complete this high profile on time, as designed and at a mutually agreed price.
52. 23  
Produce a project of the highest quality obtainable within the specified time frame and cost, while having fun accomplishing our goal.
53. 24  
Construct a high quality - usable facility in a timely, safe and cost effective manner. All the while enjoying the process.
54. 25  
Construct a quality, profitable, cost effective and safe project on schedule with minimum conflict or impact on other members of the construction team.
55. 26  
We seek to produce a quality, on time project, with open communications, cost savings, pride and at a fair profit.
56. 023  
To construct, start-up, debug & punch out project before contract completion date.
57. 522  
The project should be completed on time, within budget, and be fully operational as per contract specifications.

58. 616  
To provide correctly operating equipment within the time requirement of the project.
59. 7s7  
To have a combined sewer overflow system capable of smooth operation requiring routine maintenance, serving the city, and fulfilling environmental requirements.
60. a  
To complete a successful, quality project in a timely manner while avoiding litigation.
61. a7b  
As a contractor, it is our goal to complete this project to a high quality standard to enhance our reputation and produce a profit for our efforts.
62. abc1  
The project be successfully complete in a n orderly manner to please the customer and to make it profitable for everybody.
63. abc2  
To provide a facility constructed according to plans and specification that will be of beneficial use to owner and general public with minimal operational and maintenance cost.
64. abc3  
Complete job on time & have it done to the best standards, also have the company make money.
65. aio  
Owner has a quality job and contractors make a profit.
66. d72  
To complete the project on time & within budget while allowing the owner to participate in its involvement, the engineer to cooperate with all involved & the contractor a reasonable profit.
67. deb  
To maintain a profitable project, not necessarily from a money aspect but also image.
68. end  
A properly built facility constructed safely, within budget and on time according to the construction documents and applicable regulations.
69. fc1  
To be profitable and responsible in our duties of helping to construct this project which will help keep our local environment clean and friendly.
70. ger  
Profitable completion, owner satisfaction and strengthening of professional contacts for future projects.
71. jwv  
To insure that the project is constructed to meet the requirements of the city's NPDES permit in a safe and efficient manner while maintaining the operation of the existing system.
72. las  
To complete the project under the evidence of the contract specifications within time and budget.
73. lkn  
The most important result is to have each company and individual to make a fair and honest profit, at no other persons expense.

74. wak  
To obtain a quality result (job) in compliance with the project documents.
75. xyz  
To promote the quality of our company's services, and product to the owner and general contractor, and to maintain our profit margin.
76. fud  
To complete project as soon as possible to control river pollution.
77. rml  
Improve river quality.
78. jwv  
To aid in the construction of this project, insuring that it meets the requirements mandated, while maintaining the operation of (the) remaining collection system.
79. abc  
To avoid scheduling problems as it relates to installation & fragmentation of material requirements to maintain job progress.
80. xyz  
Project to be completed on time, profit realized at job's end.
81. 023  
Project completed on time minimizing lengthy job close-out proceedings
82. 345  
To complete this project on time within budget to the satisfaction of all concerned.
83. xyz2  
Complete quality project in timely manner which will produce maximum profit.
84. a,b,c  
The most important result to be achieved on this project would be to complete this project on time and within budget.
85. abd  
Spence Brothers to make a profit and be ahead of schedule--a job every body is proud of and at budget.
86. abc2  
Owner will have a satisfactory working facility.
87. ade  
A quality product with participating parties making their anticipated profit.
88. ove  
Complete the project, within budget and time to meet the requirements and regulations mandated with minimum disruption to the operation of the existing facilities.
89. jwc  
To ensure the safety and health and environment of on site employees and surrounding communities while providing an accident free job and producing the customers and community with a quality job, error free.
90. abc3  
This job is to be built better than the owner's expectations, also to have no lost time accidents.

91. xyz2  
Our mission on this job is to supply a good product without any problems and that our services and employees work together with the program.
92. #3  
To complete the project ahead of schedule with no injuries or accidents, and the general contractor along with all the subs showing a profit.
93. 01  
Develop & maintain a construction site project team that brings the project in on time, below cost, and with safety the top priority.
94. 02  
To identify the environmental condition of on-site soil & material, protect the health and safety of workers, and the public, using effective & timely methods.
95. 03  
Our mission for this project is to complete the project in a timely manner and satisfactorily to the owner, engineer, general contractor & subcontractors & suppliers. We will attempt to stress communication and avoid problems, cost overruns, unsafe working conditions & try to work together & bene?? a trust among all parties
96. 04  
The mission of this partnering group is to deliver a quality project which exceeds expectations; delivered early - with cost savings to owner, and profitability to partners.
97. 05  
To observe & facilitate the construction of the Webber Street Retention Treatment Basin so that the City's obligations under M-DNR orders are met and to ensure current collection and treatment continues to operate within the city's NPDES permit.
98. 06  
To place as much resteel efficiently and effectively as possible, and to coordinate placement with Spence to keep job running smooth.
99. 07.  
Mission - To assure construction of a facility which meets all requirements of the DNR while ensuring quality materials and construction and staying reasonably within the budget.
100. 08.  
To construct and put into operation the Webber Retention Basin on time, at least cost, with a cooperative effort of all parties involved.
101. 09.  
To complete this project profitably, safely, on time, and to leave the owner & engineer completely satisfied with the results and the experience.
102. 10.  
My organization's mission for this project is to provide a constructible, rational and economical project with full participation of all parties involved.
103. 11.  
My mission on the Webber project is first to make a profit for Spence Brothers without causing any deaths or bad injuries to any person on the job. My policy has always been to see that the owner has as good a job or building as possible in my power to do it even if it requires extra effort on my part. I think we should all be proud of what we have done.

104. 12.  
To certify that a structure according to plans & specifications has been completed and during the construction process, field questions, comments,, and facilitate communication between contractor & engineer.
105. 13.  
Work with general contractor and design to build a quality project for the City of Saginaw.
106. 14.  
To assist with the construction field observations and help insure the electrical and instrumentation operate in accordance with the design intent.
107. 15.  
To provide a quality, finished project to the owner that is economical, on time, and profitable with a minimum amount of conflict between all involved parties.
108. 16.  
to provide a high quality specified product in a timely manner which shall facilitate the construction of a lasting structure.
109. 17.  
To do the job for the general contractor and the owner to the best of our ability on a timely fashion (and) at all times try to maintain an excellent safety program.
110. 18.  
As an engineer to be a partner in this project, assisting the contractor to do their job using the plans & specifications as a guideline so the owner gets what they need.
111. 19.  
To create a high quality, safe project that benefits all working on the project financially, socially, and technically, while benefiting the environment without adverse effects to anyone.
112. 20.  
To help build a within budget project for the City of Saginaw, no accidents, and profitable for my company and general contractor. Leave job being proud of what we built, and with a high recommendation for the next project.
113. 21.  
To help insure (a) quality project in accordance with plans & specifications by providing experienced personnel, informing appropriate authority of test results in a timely manner and provide recommendations as needed.
114. 22.  
To give the owner the project he paid for and that will perform the intended function.
115. 23.  
This team commits to deliver a quality project on time, on budget, safely, and at a profit to all through a mutual cooperation among all parties.
116. 24.  
To do this job in a timely manner without anyone getting hurt on the job. Try to make the profit on the job that you made when you bid the job.
117. 25.
  1. Furnish drawings & equipment required by instrumentation & control specifications of the contract documents.
  2. Assist contractors to properly install equipment.
  3. Assist owner to start up & operate the equipment.
  4. Make a profit.

118. 26.  
We will strive to jointly and collectively construct the Webber St. Basin on time and within budget with the highest quality available.
119. str  
The design of the structural system is intended to provide long term adaptable, constructability solutions to meet the owner's short & long term performance objectives
120. kv  
To design the electrical systems for the building, which will effectively support the operation of an innovative "user friendly" medical facility
121. mech  
As mechanical engineers, our mission is to provide systems that will meet the owner's expectations and stand tests of time.
122. al  
To provide creative, cost related ideas to meet the owner's expectation, be available to work with all team members to meet schedules and complete a project that meets owner's objectives in both corporate and public images.
123. brw  
Provide user friendly, easily maintainable, cost effective and aesthetic site civil engineering improvements for the phase 1 project that can be easily adapted for future phases of development.
124. dwc  
To create an innovative, user friendly health care facility that meets the needs of the community it serves in a high quality, cost effective manner.
125. shm  
Provide state-of-the-art architecture combining out-patient health care delivery systems and medical offices in flexible, efficient, expandable, and user-friendly environment, in budget and on schedule.
126. rgk  
To help the joint venture management provide effective leadership and make informed decisions that result in a completed project that exceeds their expectations.
127. mch  
To conduct ourselves in a manner which creates a positive environment allowing for total project success on behalf of all team player goals & objectives.
128. 029  
We are committed to provide the project team complete and accurate information to allow the owner to achieve their goals.
129. xyz  
To complete the preconstruction phase of the project for the end product as a whole by the input of the team is a state of the art user friendly facility that could not be achieved individually as the total project.
130. none 1  
Work, with professional input, to design and build a user friendly health care campus to support the future of health care services.
131. 79632  
Adequately interpret the requirements of the joint venture so that I can provide clear direction on design, budget, and schedule to the project team.

132. none 2  
Provide at a reasonable cost to customers in service area a quality, innovative, state of the art medical complex by partnering all disciplines involved.
133. bwb  
Provide the owner with a quality, innovative, state of the art health care facility. Provide product with quality construction documents, as error free as possible, and with no end surprises.
134. 01  
To work as a team and produce a quality project through a program of trust, integrity and cooperation.
135. 02  
To work together in a team atmosphere, communicate openly, and cooperate fully in the construction of a high grade quality building that we can be proud of upon its timely completion.
136. 03  
Completion of a quality facility with appropriate benefits to all participants without legal disputes and in a manner that is enjoyable to all.
137. 04  
To insure that our goals and objectives are totally met, within the framework and intent of the contract documents, in a comfortable, safe, and conflict free environment.
138. 05  
We as a team seek top create a quality product, maintaining both sensitivity and integrity of design, a facility constructed in a cooperative spirit, on schedule, resulting in an equitable/pleasant experience for all.
139. 06  
Work together in an enjoyable manner to produce a project where each partner would be proud to accept personal responsibility for quality, cost, time for completion and functionality.
140. 07  
Cooperate through communication and timely performance to create a quality product within the allotted time and within budget.
141. 08  
Safely deliver a quality product in sequence, on time and under budget.
142. 09  
Having an open line of communication in an effort to construct the project on time, within budget, safely and without adversarial relationships.
143. 10  
Acting as a "team", complete construction and activation on time with quality, recognizing each player's need for reasonable profit.
144. 11  
Work together to produce a high quality project in a win/win partnership.
145. 12  
Recognizing our common objectives we agree to strive together to construct on time and within budget the VAMC, Detroit project to the highest quality standards commensurate with its mission of serving veterans and the community.

146. 13  
Produce the quality facility on time, within budget, without accidents, without litigation and have fun doing it.
147. 14  
To agree on practical goals and objectives that will be acted on throughout the project - no matter how few, rather than glowing, flowery platitudes that will never be realized.
148. 15  
Complete this project in a manner we can all be proud of with respect to everyone's expectation in a spirit of cooperation.
149. 16  
We commit to produce the construction of VAMC, Detroit on time, within budget recognizing the realistic goals of all participants in a way each one of us and our organizations, can take pride in.
150. 17  
To ultimately provide a state of the art health care facility for veterans in a manner such that the construction is completed safely, on time, within budget and without major disputes or litigation, and meets the goals of the participants.
151. 18  
To produce a quality job on time and within budget and enjoy doing it.
152. 19  
The mission is - through cooperation, communication and understanding build and activate a medical facility that results in pride and satisfaction for all involved parties.
153. 20  
To work together as a team to produce a high quality, functionally complete medical facility, on time as designed.
154. 21  
Construct a quality building on time, within budget, with safe working conditions and no claims.
155. 22  
To work together as partners to complete this high profile on time, as designed and at a mutually agreed price.
156. 23  
Produce a project of the highest quality obtainable within the specified time frame and cost, while having fun accomplishing our goal.
157. 24  
Construct a high quality - usable facility in a timely, safe and cost effective manner. All the while enjoying the process.
158. 25  
Construct a quality, profitable, cost effective and safe project on schedule with minimum conflict or impact on other members of the construction team.
159. 26  
We seek to produce a quality, on time project, with open communications, cost savings, pride and at a fair profit.
- B. #2



1. 023  
To successfully build, start-up, test/ demonstrate & punch out this project before the contract completion date.
2. 522  
The team will commit themselves to establish lines of communication that will allow for a timely and successful completion of this project, within budget and fully operational.
3. 616  
To provide quality equipment on a timely basis that meets the expectations of the owner and engineer.
4. 7s7  
To construct a functioning, combined sewer overflow system to serve the city in a cost-effective manner, avoiding legal tie-ups and regulatory problems.
5. a  
Provide a quality project in accordance with the plans and specifications, in a timely manner and within budget.
6. a7b  
To construct a project with high quality, on time and at a profit for the efforts put forth.
7. abc1  
Work with owner-engineer and other trade to get job done in a timely order.
8. abc2  
To provide constructible, economical and rational project that is profitable and to the mutual satisfaction of owner and all parties involved.
9. abc3  
Quality of job and company did make a profit, without the profit our company will not see next project.
10. aio  
Complete a quality and profitable project for the owner and contractors.
11. d72  
Through positive, effective communication and cooperation among O, E, & G.C. (owner, engineer, and general contractor?) using the contract documents, P & S (plans and specifications?) as a guide, complete the job in a safe, profitable and acceptable manner.
12. deb  
To provide a completed project that meets all the player expectations.
13. end  
A quality project on time, within budget, safely, & profitability by being timely in services, communicating, and cooperating.
14. fc1  
To be profitable and responsible while cooperating with all others involved to construct this project in a timely and safe manner for the people.
15. ger  
Profitability for those involved, owner satisfaction and a strengthening of professional contacts for future projects.
16. jwv  
To assure that this project meets the requirements of the city's NPDES permit, while maintaining the operation of the overall collection and treatment system, in the most cost effective and efficient manner.

17. las  
Our overall mission remains the same; that is to receive what we asked for in the most economical and timely manner with the least amount of disappointments.
18. lkn  
To provide the owner with a quality job and to make a profit in doing so. This will result in allowing us to do more work in the future.
19. wak  
To provide a safe, quality project on schedule & within budget.
20. xyz  
To have open lines of communication with job superintendent, so we can provide the highest quality product on a timely basis, with sufficient profit.
21. 123  
Communicate with general contractor & design professionals, cost impacts, so as to minimize costs incurred by all parties.
22. 123  
To provide our services in the most timely and responsive manner.
23. 123  
Satisfy the requirements described by the NCS problem statement, goals and concepts within budget and schedule.
24. 480  
A completed project that satisfies the needs of all members of the team
25. ???  
Provide a facility for our client on time within budget that provides the maximum satisfaction.
26. ???  
To develop a functional cost effective building in shortest time with minimum disruption to owner.
27. ???  
The most important result to be achieved is complete, quality project conforming with the owner's requirements and budget within the schedule.
28. das  
To bring the job in on time with owner completely satisfied.
29. dej  
To manage the design and construction of this facility to meet the owners needs.
30. L3r  
To provide a quality electrical system on time and within budget to NCS
31. ncs  
A profitable & timely completion of the project for all concerned.
32. rml  
To make decisions and answer questions as quickly as possible.
33. fud  
To help obtain the completion with the least delay and utmost cooperation which should eliminate additional costs.
34. abd  
Make a profit for company. Do a good job for owner. Be ahead of schedule.

35. ade  
A quality product with all participants making more than their anticipated profits.
36. abc  
Our company and our subs will profitably provide the owner a satisfactorily operable facility.
37. 023  
To complete the project safely, profitably, on time, and to the satisfaction of all parties.
38. xyz  
Complete the project in a safe and timely manner that will allow maximum profitability for our company
39. xyz(316)  
I would like to see this project completed on time within budget, safely, and at a profit for all.
40. 101  
To maintain good communications and organization with other companies and engineering on the job.
41. 456  
To complete this project on time, working well with all other parties.
42. rrc  
Meet all requirements of GC and owner in a timely manner and help profits of all.
43. xyz(2)  
Our mission on the result (of our work) is to make sure our profit is the best we can produce.
44. a,b,c,  
Our mission is to complete the project profitably.
45. abc (2)  
To set guidelines that we all can live with to complete the project.
46. oue  
Being able to meet the regulations mandated by the state and federal agencies in the most economical and timely manner while having a good time.
47. jwv  
To ensure this project is constructed to meet requirements while maintaining operation of the remainder of the system.
48. juc  
To maintain a high level of safety and environmental awareness to the community with a high level of housekeeping which would include inspections carried out at least once a month, which would provide quality and stability for our company.
49. abc(3)  
To maintain a clean and safe worksite completed ahead of schedule and profitable for all concerned parties.
50. abc(4)  
Build job without legal intervention beyond owners expectation.

## **VII. Project charters**

### **A. Charter A**

#### **1. Mission**

Beyond the contract requirements the project partners will achieve a quality project, mutual success, and avoid litigation by a commitment to:

- a safe work place,
- effective communications,
- trust, and
- timely action

#### **2. Objectives - to accomplish our mission we recognize a need to work to the following goals and objectives:**

- a) Maintain partnering effectiveness
  - (1) Prepare & publish a partnering effectiveness measurement system.
  - (2) Meet regularly and evaluate partnering effectiveness
  - (3) Take prompt steps to correct any deterioration of partnering effectiveness.
- b) Maintain effective project communication
  - (1) Be available
  - (2) Minimize response times
  - (3) Maintain an appropriate level of documentation.
- c) Submittals
  - (1) Prepare & publish submittal processing guidelines
  - (2) Process submittals in a timely manner
  - (3) Insure proper distribution of submittals
- d) Planning & scheduling
  - (1) Prepare, issue & maintain current project schedules
    - (a) Long term
    - (b) Short term
- e) Maintain a clean & well managed work place
  - (1) Minimize time lost due to accidents
  - (2) Be a good neighbor to adjoining area residents
  - (3) Use good construction site housekeeping practices
- f) Close out project in a proper & timely fashion
  - (1) Prepare & publish acceptable close out guidelines
  - (2) Establish clearly defined punch out procedures & standards early in the project.
- g) Maintain good job morale & attitudes
  - (1) Promote partnering attitudes at all levels of contract administration.
  - (2) Have pride in your work.
- h) Resolve problems effectively
  - (1) Prepare & publish a responsive conflict resolution system.
  - (2) Promptly resolve conflicts at lowest possible levels.
  - (3) Attempt to anticipate & prevent damaging problems

### **B. Charter B**

#### **Mission.**

Through mutual trust and cooperation, we will strive to recognize and satisfy the owner's needs and provide a quality project on schedule, within budget, safely, profitably and to the satisfaction of all concerned.

**Objectives**

- I. Establish and maintain an effective and timely decision making process.
  - A. Set, define and follow appropriate communication paths and methods.
  - B. Provide timely and meaningful information to make proper decisions.
    1. Program statements
    2. Design documents
    3. Schedules
    4. Budgets
  - C. Prepare and process submittals promptly and fairly.
- II. Develop and implement an alternative dispute resolution system.
  - A. No litigation.
  - B. Promptly resolve conflicts at lowest possible levels.
  - C. Be proactive in problem solving.
- III. Payments.
  - A. Pay properly submitted invoices promptly.
- IV. Maintain good job morale and attitudes.
  - A. Have Fun.
  - B. Encourage partnering attitudes.
  - C. Be proud of your contribution to the project.
- V. Close out project promptly and properly.
  - A. Prepare and publish close out items of work and guidelines to accomplish this work.
- VI. Properly manage cost and schedule.
  - A. Employ intelligent and timely use of cost/benefit concepts on the project.
- VII. Remain open and receptive to the ideas and needs of other project partners.
  - A. Be sensitive to the special space and functional needs of the owner.
  - B. Seek, respect and consider input from other team members.
  - C. Strive to educate and communicate to employees, all project team members and the public regarding safety and access during construction.
- VIII. Define and maintain quality standards expected by the owner within budget constraints.

**C. Charter C**

**Mission**

Design an effective and flexible community based outpatient centered facility that provides for present and future quality health care services.

**Objectives**

- a) Maintain control of design costs and construction budgets
  - (1) Prepare and publish Design Development based total target cost
  - (2) Prepare and publish must, want, and wish list
  - (3) Prepare and publish FFE budget
  - (4) Prepare and publish life cycle costing guidelines
  - (5) Prepare and publish preconstruction costing guidelines
- b) Properly document project activities
  - (1) Prepare and publish guidelines for single source documentation
  - (2) Make decisions promptly
  - (3) Prepare and distribute glossary
  - (4) Prepare and publish payment policies

- (5) Prepare, publish and periodically update schedule for entire project
- (6) Prepare and publish submitting, reviewing, and approving process guidelines
- c) Maintain an effective mode of communication on project
  - (1) With medical and non medical staff
  - (2) With surrounding community
  - (3) With regulatory agencies
- d) Provide approvals promptly from proper management level
- e) Define standards of performance expected so as to achieve program conformance
  - (1) Provide forum for periodic total project review by entire preconstruction team
  - (2) Do it right the first time
  - (3) Define community image to be projected by project team and the facility
- f) Establish issue resolution process
  - (1) Prepare and publish conflict resolution guidelines
  - (2) Resolve issues promptly and at originating level
  - (3) No litigation
- g) Generate and maintain high levels of project team morale
  - (1) Exhibit and expect others to exhibit good partnering practices

**D. Charter D**

**1. Mission**

This partnering team commits to deliver a quality project on time, within budget, safely, profitably for all, and of the intended quality, through mutual cooperation among the participants.

**2. Objectives**

- a) Maintain a clean and well maintained work site
  - (1) Experience no lost time from accidents.
  - (2) Be a good neighbor.
  - (3) Use good construction site housekeeping practices.
- b) Effectively administer the project
  - (1) Prepare & publish an acceptable payment procedure.
  - (2) All parties submit complete, accurate & timely billings.
  - (3) Prepare & publish an acceptable submittal processing procedure.
  - (4) Treat each other fairly
- c) Close out the project in a proper & timely fashion
  - (1) Prepare & publish acceptable close out guidelines.
  - (2) Establish clearly defined punch out procedures and standards early in the project.
- d) Maintain effective lines of communication.
  - (1) Recognize the need for quality information.
  - (2) Minimize response times in all matters.
  - (3) Maintain an appropriate level of documentation.
  - (4) Be available.
- e) Resolve problems effectively
  - (1) Develop, approve, and implement a responsive conflict resolution system
  - (2) Resolve disputes and conflicts at the originating level if at all possible.

- (3) Resolve disputes and conflicts as quickly as possible.
- (4) Eliminate the need for third party legal involvement
- f) Limit cost growth
  - (1) Maintain objective attitude toward constructability.
  - (2) Develop cost effective measures to apply to all job related activities.
  - (3) Recognize owner's needs in occupation and operation of project.
- g) Maintain technical excellence in all program, design & construction work.
  - (1) Owner abate promptly as required
  - (2) Define and clearly communicate quality standards expected
  - (3) Maintain constructability of the project.
  - (4) Properly plan and schedule the work.
  - (5) Do it right the first time.
- h) Maintain good job morale & attitudes
  - (1) Promote partnering attitudes at all levels of contract administration.
  - (2) Have pride in your work.
  - (3) Have fun.
- i) Maintain partnering effectiveness
  - (1) Prepare and publish a partnering effectiveness measurement system.
  - (2) Meet on a scheduled, regular basis and formally evaluate partnering effectiveness.
  - (3) Take prompt steps to correct any deterioration of partnering effectiveness on the project.

E. Charter E

- 1. Mission
  - a) We the Project Team commit to construct a quality facility, on time and within budget, maximizing safety, communication, & cooperation so that all participants can be proud and profitable in their accomplishments.
- 2. Objectives - to accomplish our mission we recognize a need to work to the following goals and objectives.
  - a) Submittals
    - (1) Clarify objectives and expectations of the submittal process
    - (2) Minimize submittal and approval times
    - (3) Provide accurate, prompt, clear, concise approvals
  - b) Payments
    - (1) Make payments in accordance with the published flow chart process
  - c) Information processing & paperwork
    - (1) Expedite all information and indicate desired response times
    - (2) Maintain open lines of communication among Project Team members
    - (3) Be available
    - (4) Attempt to offer possible solutions to questions within a proper scope
    - (5) Provide clear responses to requests for information
  - d) Legal matters
    - (1) No litigation
    - (2) Settle disputes at originating level
  - e) Abatement
    - (1) Establish, approve and publish a plan of abatement
    - (2) Abate promptly

- f) **Planning and scheduling**
  - (1) Provide, obtain, and use accurate activity information
  - (2) Clearly monitor the project against the plan and schedule
  - (3) Commit to, and fulfill man hour projections
- g) **Decision making**
  - (1) A/E team to regularly inspect work and advise compliance
  - (2) Define and clearly communicate quality expectations
  - (3) Properly empower those at all decision making levels
- h) **Policies and procedures**
  - (1) Prepare, review, approve and publish policies and procedures that will serve as guidelines to manage the project
- i) **Site layout and management**
  - (1) Formulate and publish a trash removal & parking plan
  - (2) Properly establish and maintain bench marks and control lines
- j) **Processing revisions**
  - (1) Provide written authorization prior to work proceeding
  - (2) Respond to requests for information, bulletins and change orders promptly
  - (3) Prepare, approve & publish a flow chart for processing revisions
- k) **Be a good partnering neighbor**
  - (1) Commit to protecting your work and the work of others
  - (2) Show all participants due respect and acknowledgement
  - (3) Maintain proper work sequences
- l) **Total quality management**
  - (1) Prepare, approve, publish, and commit to a TQM program