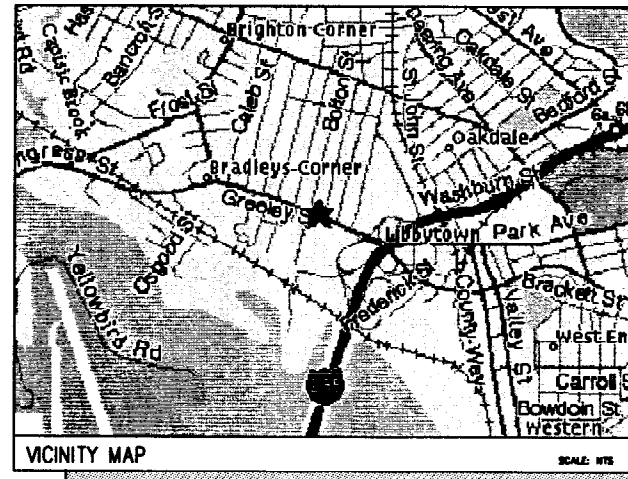


U.S. Cellular

The way people talk around here.™

SITE NAME: DOUBLETREE HOTEL
SITE NO. 853329
LATITUDE: 43° 39' 20.35
LONGITUDE: 70° 17' 25.78

SITE NUMBER:	853329
SITE NAME:	DOUBLETREE HOTEL
TOWER TYPE:	20' MONOPOLE TOWER
SITE ADDRESS:	1230 CONGRESS STREET PORTLAND, ME 04101
PROPERTY OWNER:	OLYMPIA EQUITY INVESTORS, LLC 50 MONUMENT SQUARE 2ND FLOOR PORTLAND, ME 04101
MAP & LOT:	189/A014001
APPLICANT:	U.S. CELLULAR c/o LCC 482 CONGRESS STREET, SUITE 502 PORTLAND, MAINE 04101
PROJECT SUMMARY	



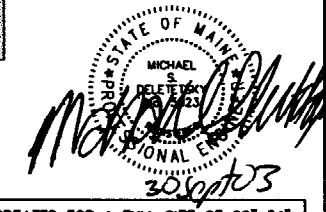
DIRECTIONS
 FROM PORTLAND INTERNATIONAL JETPORT: FROM THE AIRPORT TAKE THE ACCESS ROAD TO ROUTE 9/22 (APPROX. .8 MILES) AND TAKE A RIGHT ONTO OUTER CONGRESS STREET. PROCEED 1.8 MILES ON CONGRESS STREET TO THE INTERSECTION OF SEWAL STREET AND CONGRESS STREET. ABOUT 100 YARDS BEYOND THE INTERSECTION ON THE RIGHT IS THE HOTEL.

SHEET NO.	DESCRIPTION	DATE	REV. NO.
T-1	TITLE SHEET	9/30/03	0
C-1	PLOT PLAN	9/30/03	0
A-1	ANTENNA PLAN & ELEVATION	9/30/03	0
A-2	ELECTRICAL FLOOR PLAN	9/30/03	0
S-1	FRAMING PLANS AND DETAILS	9/30/03	0
S-2	STRUCTURAL DETAILS	9/30/03	0
E-1	RISER DIAGRAM AND DETAILS	9/30/03	0
G-1	GENERAL NOTES	9/30/03	0

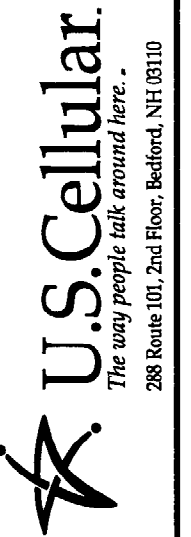
SHEET INDEX

BUILDING REQUIREMENTS:
 BUILDING IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS REQUIREMENTS NOT REQUIRED.

PLUMBING REQUIREMENTS:
 FACILITY HAS NO PLUMBING.



THIS DRAWING WAS CREATED FOR A FULL SIZE OF 22"x34". IT HAS BEEN REDUCED 50% FOR SUBMISSION PURPOSES.



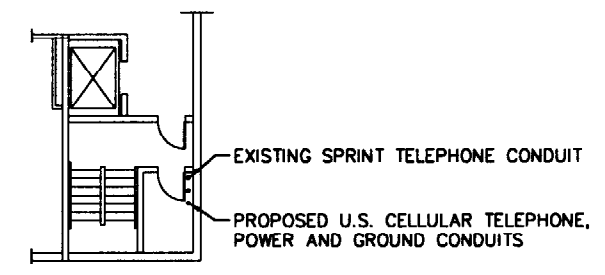
R.F. _____
 SA/ZN _____
 CONST. _____
 U.S.C.C. _____
 P.M. _____

CEST Associates, Inc.
 240 Durham Road, South Portland, ME 04106
 TEL: (207) 761-1770
 FAX: (207) 774-1248
 CEST PROJ. NO: 390.01.01

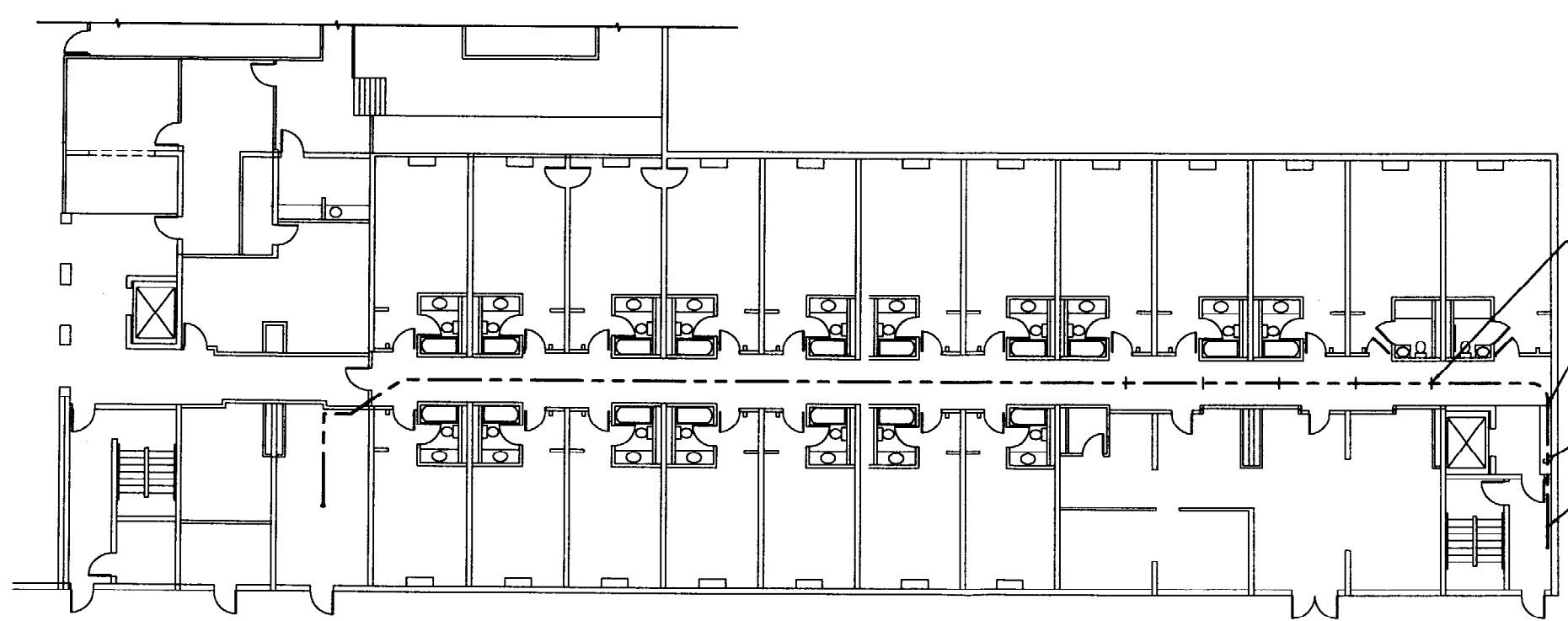
SITE NAME: DOUBLETREE HOTEL
SITE NUMBER: 853329
ADDRESS: 1230 CONGRESS STREET
DRAWING TITLE: TITLE SHEET

REVISIONS	
No.	DESCRIPTION
0	FOR BLDG. PERMIT

DATE: 9/22/03
 DESIGNED BY: JRW
 DRAWN BY: CBM
 CHECKED BY: MSD
 SCALE: AS NOTED
 PROJECT NO: 390.01.01
 DRAWING NO: _____



TYPICAL FLOOR PLANS, 2 THRU 6 AND PENTHOUSE
 SCALE: 3/32"=1'-0"



- TYPICAL EXISTING UNISTRUT SUPPORTS ABOVE ACOUSTICAL TILE CEILING. CONNECT U.S. CELLULAR CONDUIT TO THIS SUPPORT ASSEMBLY.
- EXISTING SOFFIT AREA- CONTRACTOR SHALL OPEN DRYWALL TO RUN CONDUIT, DRYWALL SHALL BE PATCHED AND FINISHED TO MATCH EXISTING
- PROPOSED U.S. CELLULAR TELEPHONE, POWER AND GROUND CONDUIT
- EXISTING SPRINT TELEPHONE CONDUIT
- U.S. CELLULAR TO RUN TELEPHONE SERVICE IN EXISTING SPRINT TELEPHONE CONDUIT.
- U.S. CELLULAR TO RUN POWER IN NEW 1 1/2" CONDUIT.

GROUND LEVEL TOWER PLAN
 SCALE: 3/32"=1'-0"

STATE OF NEW HAMPSHIRE
 MICHAEL S. DELETZSKY
 305 sept 03

THIS DRAWING WAS CREATED FOR A FULL SIZE OF 22"x34". IT HAS BEEN REDUCED 50% FOR SUBMISSION PURPOSES.

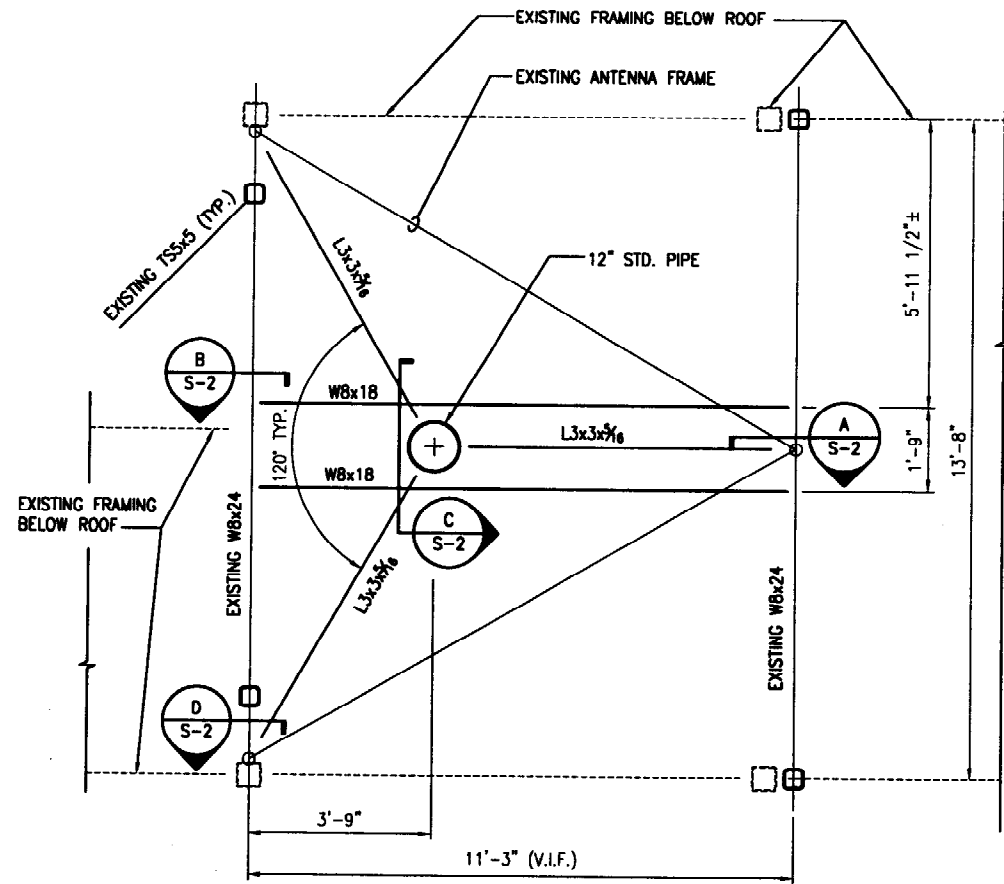
OEST Associates, Inc.
 342 Durham Road - South Portland, ME 04106
 TEL: (207) 761-1770
 FAX: (207) 774-1248
 OEST PROJ. NO: 390.01.01

SITE NAME: DOUBLETREE HOTEL
 SITE NUMBER: 853329
 ADDRESS: 1250 CONGRESS STREET
 DRAWING TITLE: ELECTRICAL FLOOR PLAN

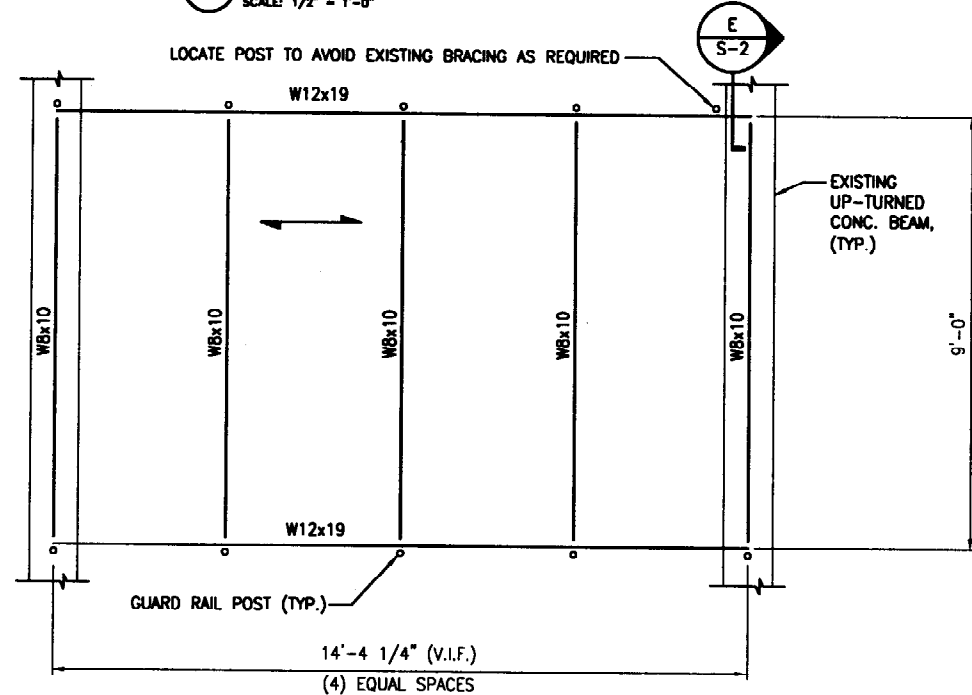
REVISIONS	
NO.	DESCRIPTION

0 FOR BLDG. PERMIT 9/30/03

DESIGNED BY: JRW	DATE: 9/22/03
DRAWN BY: CBM	SCALE: AS NOTED
CHECKED BY: MSD	PROJECT NO: 390.01.01
DRAWING NO.:	

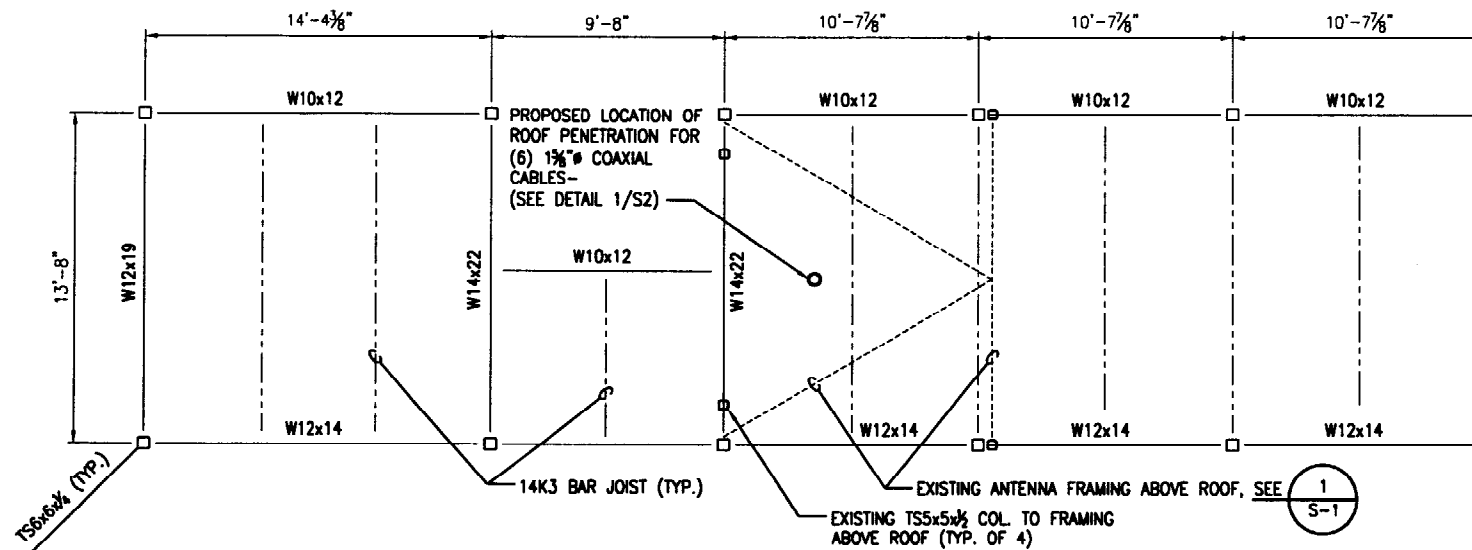


1 MONOPOLE FRAMING PLAN
SCALE: 1/2" = 1'-0"

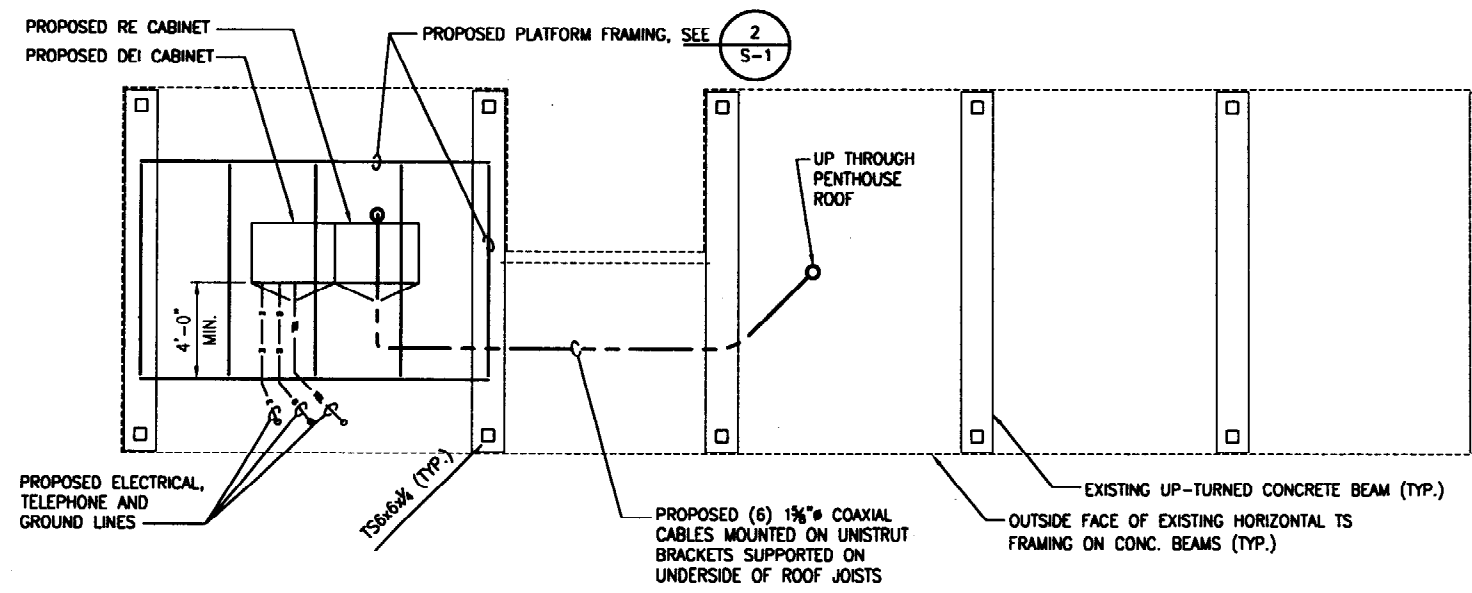


2 PLATFORM FRAMING PLAN
SCALE: 1/2" = 1'-0"

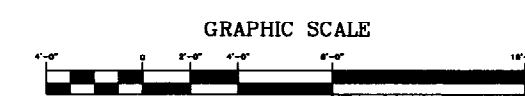
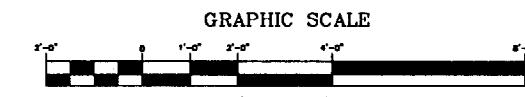
INDICATES DIRECTION OF SPAN OF FLOOR GRATING. GRATING TO HAVE 1-1/4"x3/16" BEARING BARS @ 1-3/16" O.C. AND WELDED CROSS BARS @ 2" O.C.
(V.I.F.) = INDICATES CONDITION TO BE VERIFIED IN FIELD



PENTHOUSE ROOF PLAN (EXISTING U.N.O.)
SCALE: 1/4" = 1'-0"



PENTHOUSE FLOOR PLAN (EXISTING U.N.O.)
SCALE: 1/4" = 1'-0"



CHECK GRAPHIC SCALES BEFORE USING

STATE OF MAINE
MICHAEL S. DELETTESKY
No. 5003
30 Sep 07

THIS DRAWING WAS CREATED FOR A FULL SIZE OF 22"x34". IT HAS BEEN REDUCED 50% FOR SUBMISSION PURPOSES.



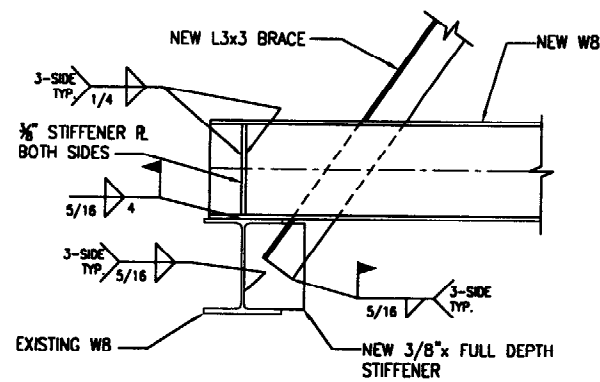
U.S. Cellular
The way people talk around here.
288 Route 101, 2nd Floor, Bedford, NH 03110

CEST Associates, Inc.
343 Eastern Road - South Portland, ME 04106
TEL: (207) 761-1770
FAX: (207) 774-1246
CEST PROJ. NO: 390.01.01

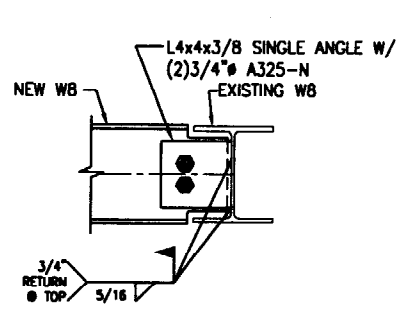
SITE NAME: **DOUBLETREE HOTEL**
SITE NUMBER: **853329**
ADDRESS: **1230 CONGRESS STREET**
DRAWING TITLE: **FRAMING PLANS & DETAILS**

REVISIONS		
No.	DESCRIPTION	DATE

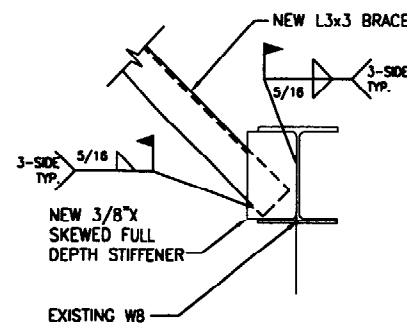
DESIGNED BY: **JRW** DATE: **9/24/03**
DRAWN BY: **SAZ** SCALE: **AS NOTED**
CHECKED BY: **MSD** PROJECT NO.: **390.01.01**
DRAWING NO.: **S-1**



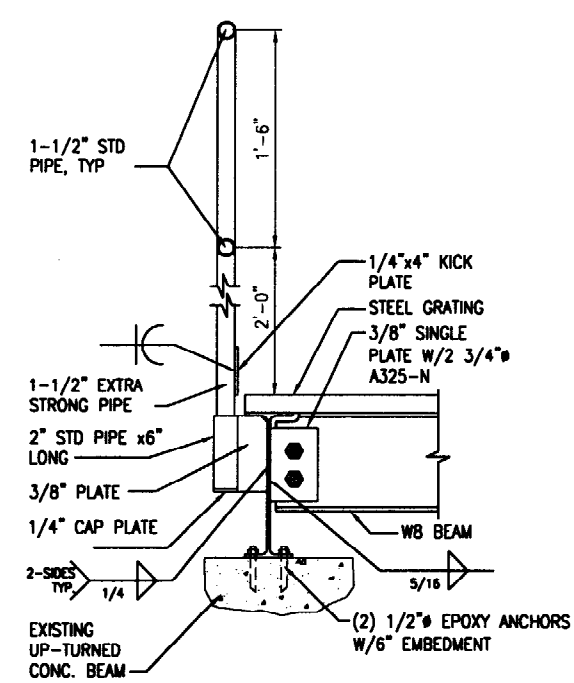
A SECTION @ BEAM CONNECTION
SCALE: 1-1/2" = 1'-0"



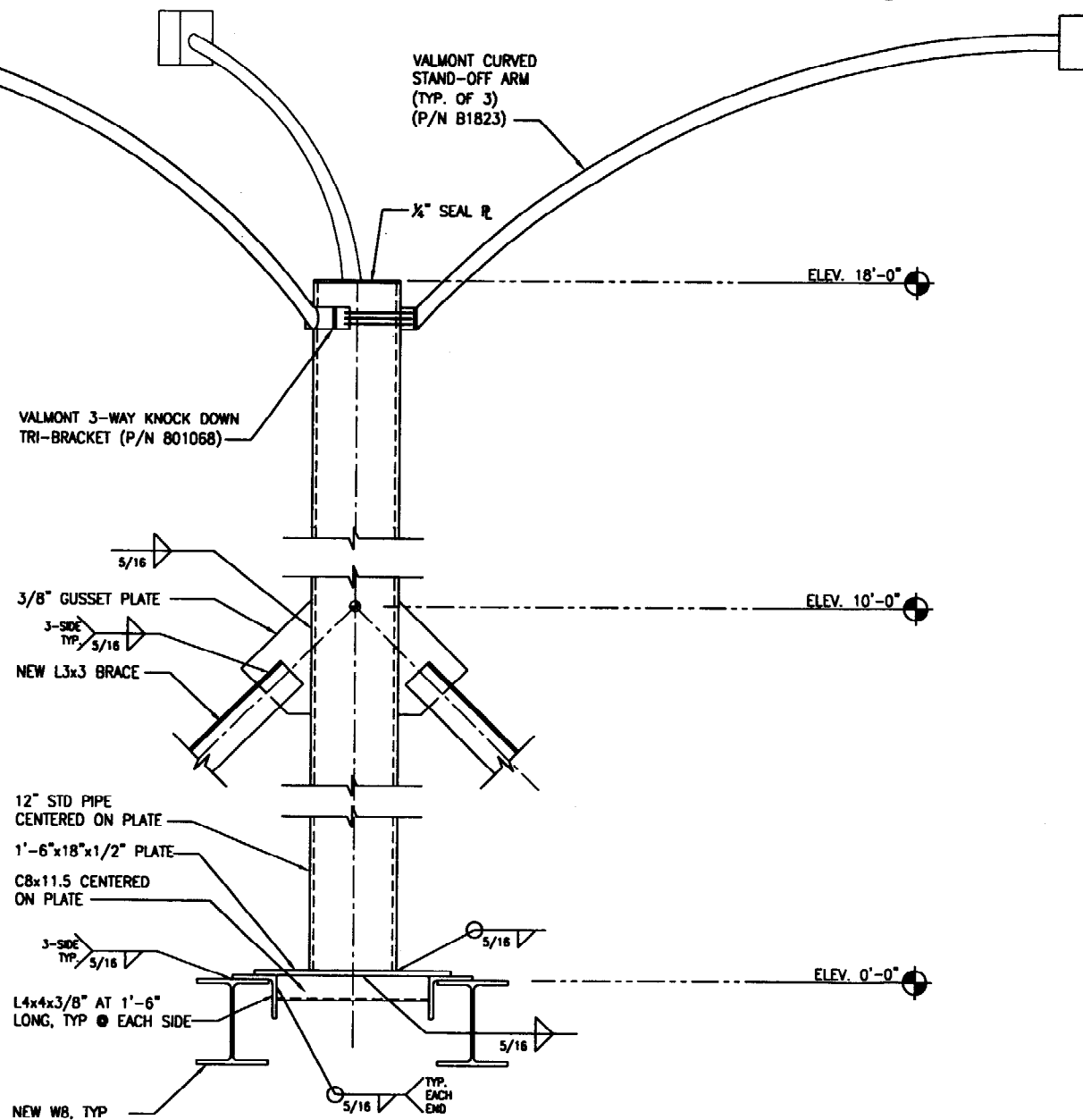
B SECTION @ BEAM CONNECTION
SCALE: 1-1/2" = 1'-0"



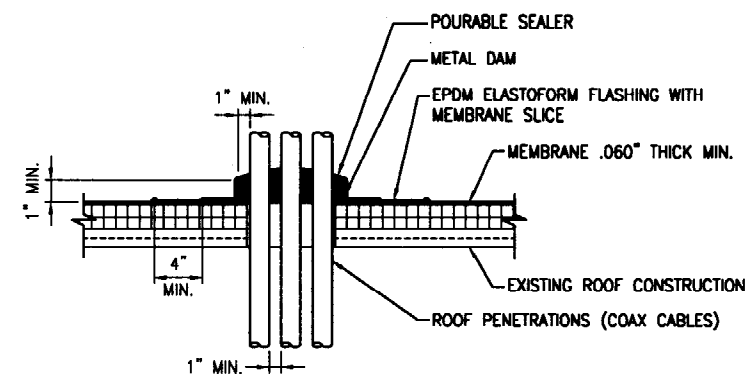
D SECTION @ BRACING
SCALE: 1-1/2" = 1'-0"



E SECTION @ PLATFORM AND HAND RAIL
SCALE: 1-1/2" = 1'-0"



C SECTION @ MONOPOLE
SCALE: 1-1/2" = 1'-0"



NOTES:

- 180° MAX TEMPERATURE.
- POURABLE SEALER MUST CONTACT EPDM ELASTOFORM FLASHING AND DECK MEMBRANE.
- POURABLE SEALER POCKET TO BE 1" MIN. FROM PENETRATION ON ANY SIDE.
- POURABLE SEALER MUST COMPLETELY FILL POURABLE SEALER POCKET TO PREVENT PONDING OF WATER.
- DECK FLANGE MUST BE CONTINUOUS WITH ROUNDED CORNERS.
- POURABLE SEALER TO BE MIN. 1" DEEP.
- POURABLE SEALER POCKET MAY BE ROUND.
- CONTRACTOR SHALL USE CONSTRUCTION METHODS, PRACTICES AND DETAILS CONSISTENT WITH THE ROOFING MANUFACTURER WARRANTEE.

1 ROOF PENETRATION DETAIL
SCALE: 1-1/2" = 1'-0"

GRAPHIC SCALE



(IN INCHES)
1-1/2" = 1'-0"

CHECK GRAPHIC SCALES BEFORE USING

Michael Delety
30 Sept 03

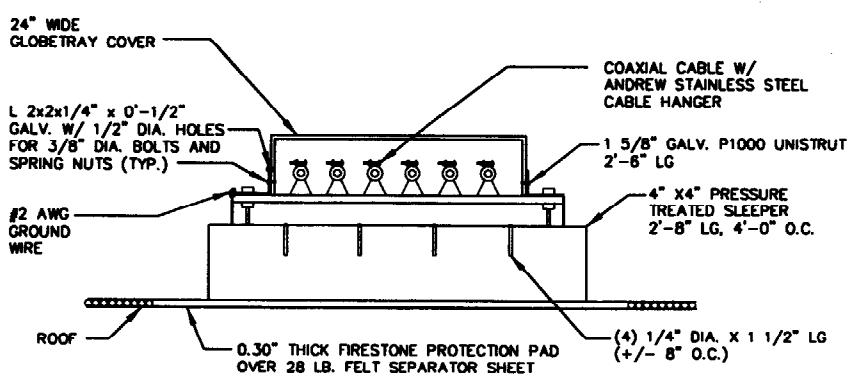
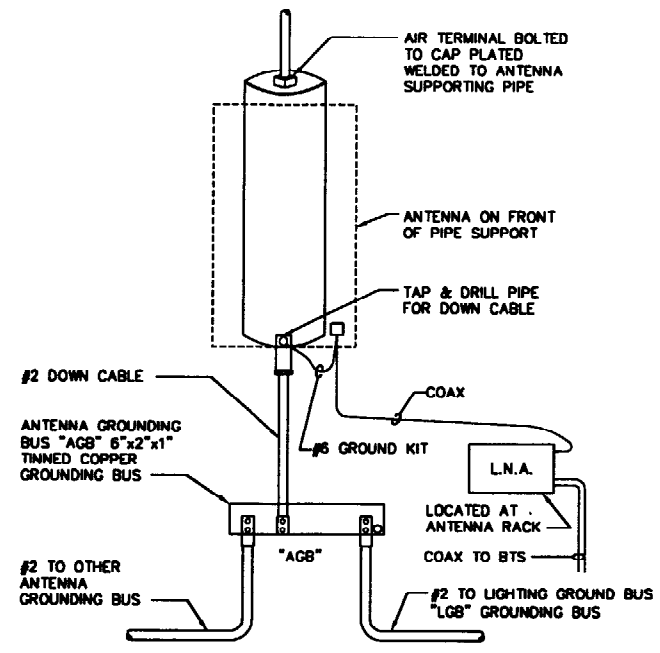
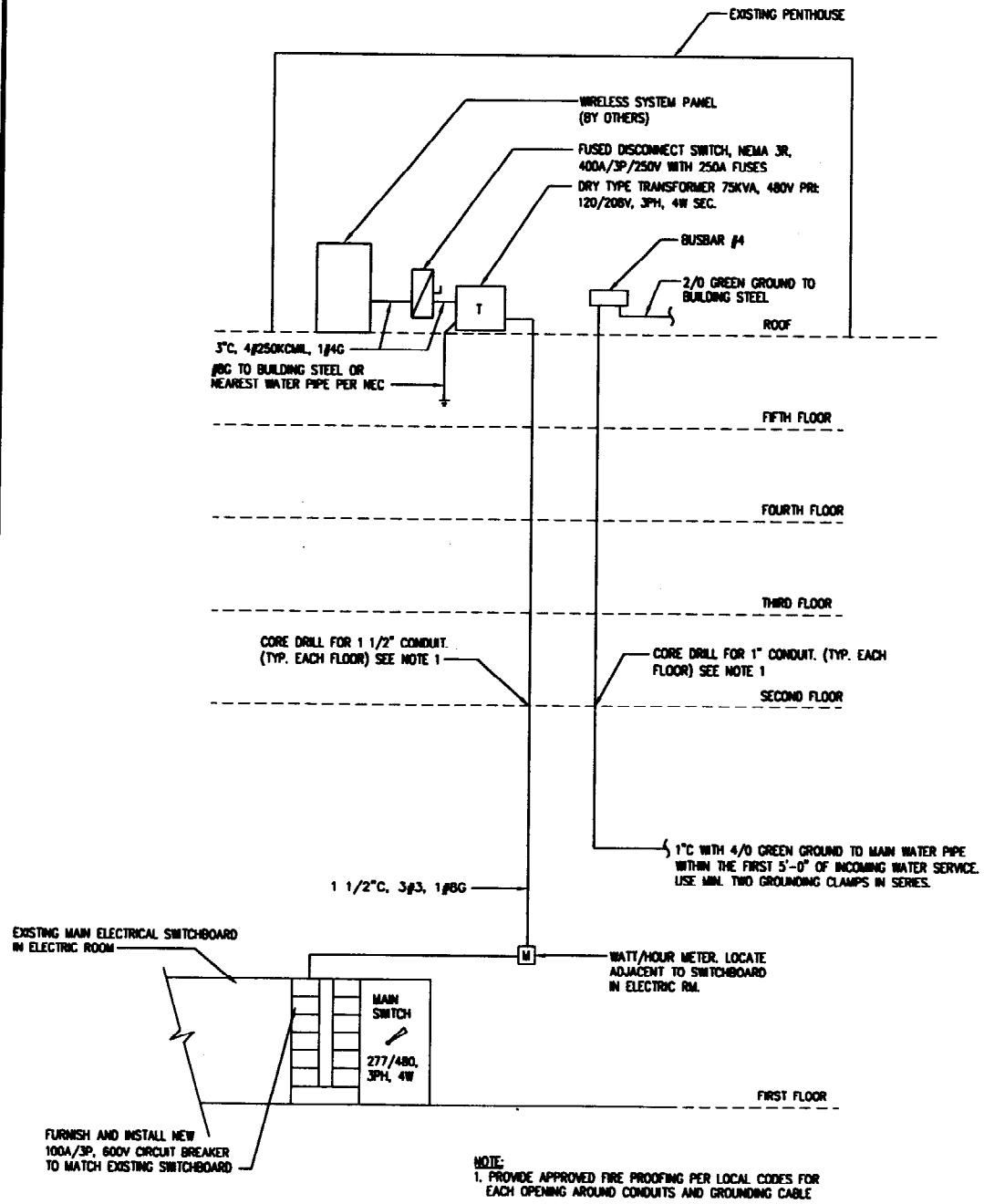
THIS DRAWING WAS CREATED FOR A FULL SIZE OF 22"x34".
IT HAS BEEN REDUCED 50% FOR SUBMISSION PURPOSES.

CEST Associates, Inc.
343 Carleton Road - South Portland, ME 04086
TEL: (207) 761-1770
FAX: (207) 774-1246
CEST PROJ. NO: 390.01.01

DOUBLE TREE HOTEL
SITE NUMBER: B53329
ADDRESS: 1230 CONGRESS STREET
DRAWING TITLE: STRUCTURAL DETAILS

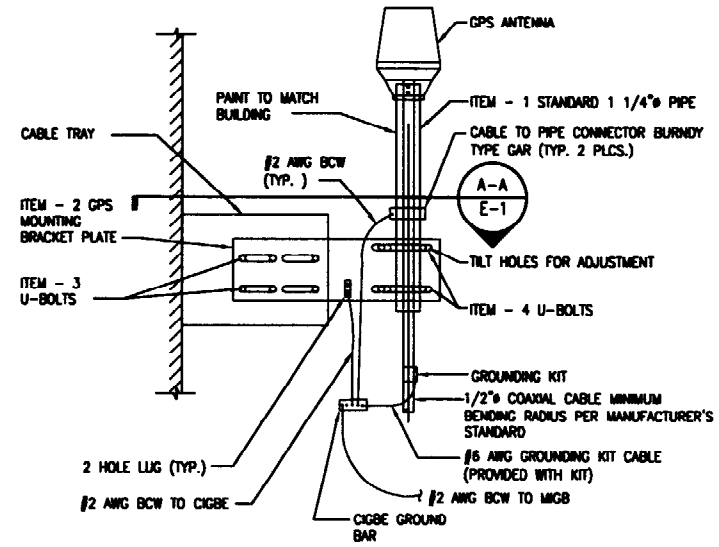
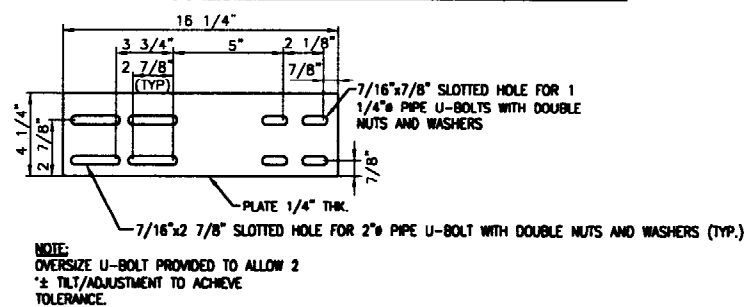
REVISIONS		
NO.	DESCRIPTION	DATE
0	FOR BLDG. PERMIT	9/30/03

DESIGNED BY: JRW DATE: 9/24/03
DRAWN BY: SAZ SCALE: AS NOTED
CHECKED BY: MSD PROJECT NO.: 390.01.01
DRAWING NO.:

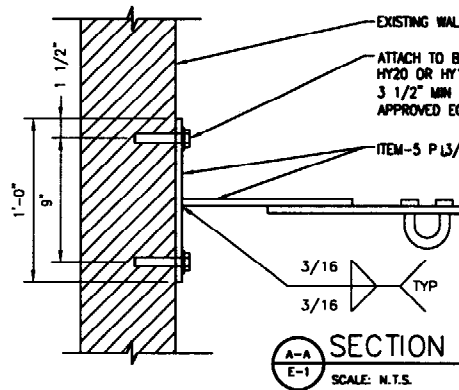


BILL OF MATERIALS

ITEM#	DESCRIPTION	QUANTITY (EACH)
1	1 1/4" DIA. SCH. 40 X 48" LG. GALV. PIPE (A-53)	1
2	PLATE 1/4" X 4 1/4" X 16 1/4" LG. GALV. (A-36)	1
3	STANDARD U-BOLT FOR 2" DIA. PIPE W/ DOUBLE HEX NUTS AND WASHER, GALV.	2
4	STANDARD U-BOLT FOR 2" DIA. PIPE W/ DOUBLE HEX NUTS AND WASHER, GALV. (SEE NOTE 2)	2
5	PLATE 3/8"x6"x12" LG. GALV. (A-36)	2



NOTE:
1. THE GPS ANTENNA MOUNT IS DESIGNED TO FASTEN TO A STANDARD 1 1/4" DIAMETER, SCHEDULE 40, GALVANIZED STEEL OR STAINLESS STEEL PIPE. THE PIPE MUST NOT BE THREADED AT THE ANTENNA MOUNT END. THE PIPE SHALL BE CUT TO THE REQUIRED LENGTH (MINIMUM OF 18 INCHES) USING A HAND OR ROTARY PIPE CUTTER TO ASSURE A SMOOTH AND PERPENDICULAR CUT. A HACK SAW SHALL NOT BE USED. THE CUT PIPE END SHALL BE DEBURRED AND SMOOTH IN ORDER TO SEAL AGAINST THE NEOPRENE GASKET ATTACHED TO THE ANTENNA MOUNT.
2. THE MOUNTING PLATE SHALL BE FABRICATED AS SHOWN AND ATTACHED TO THE APPROPRIATE SUPPORT STRUCTURE USING U-BOLTS. THE SUPPORT PIPE SHALL THEN BE ATTACHED TO THE MOUNTING PLATE USING THE OVERSIZE U-BOLTS PROVIDED TO ALLOW ADJUSTMENT. IT IS CRITICAL THAT THE GPS ANTENNA IS MOUNTED SUCH THAT IT IS WITHIN 2 DEGREES OF VERTICAL AND THE BASE OF THE ANTENNA IS WITHIN 2 DEGREES OF LEVEL.



REVISIONS		
NO.	DESCRIPTION	DATE
0	FOR BLDG. PERMIT	9/20/03

DESIGNED BY: EH DATE: 9/22/03
DRAWN BY: CBM SCALE: AS NOTED
CHECKED BY: MSD PROJECT NO.: 390.01.01
DRAWING NO.:

GENERAL

- COORDINATE THE STRUCTURAL WORK WITH THE ARCHITECTURAL, CIVIL, MECHANICAL, ELECTRICAL AND PIPING WORKS.
- VERIFY ALL DIMENSIONS IN THE FIELD. DURING ERECTION AND CONSTRUCTION PHASES, PROVIDE ADEQUATE SHORING AND TEMPORARY BRACING OF ALL STRUCTURAL COMPONENTS AND ASSEMBLAGES. NOTIFY OEST OF ALL FIELD CHANGES OR DIMENSION DISCREPANCIES PRIOR TO FABRICATION OR ERECTION.

CODES

- ALL DESIGN AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE IBC 2000.
- ADDITIONAL REFERENCED STANDARDS:
 - AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION - ALLOWABLE STRESS DESIGN 1989, 9TH EDITION
 - METAL BUILDING MANUFACTURERS ASSOCIATION (MBMA) 1986 LOW RISE BUILDING SYSTEMS MANUAL
 - AMERICAN CONCRETE INSTITUTE ACI 318-95 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE
 - AMERICAN IRON AND STEEL INSTITUTE (AISI) SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS
 - AMERICAN SOCIETY OF CIVIL ENGINEERS ASCE 7-98 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
- ALL APPLICABLE FEDERAL DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND THE AMERICANS WITH DISABILITIES ACT (ADA).

CONCRETE AND REINFORCING STEEL

- ALL TOPSOIL AND ORGANIC MATERIAL SHALL BE REMOVED FROM BENEATH FOUNDATION AREAS.
- SUBGRADE BELOW FOUNDATIONS SHALL BE COMPACTED TO AT LEAST 95% OF MAXIMUM DENSITY FROM ASTM D698 (STANDARD PROCTOR).
- CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301 AND ACI 318. CONCRETE STRENGTHS SHALL BE VERIFIED BY STANDARD 28-DAY CYLINDER TESTS. UNLESS AN ALTERNATE CONCRETE MIX DESIGN IS APPROVED, CONCRETE MIXES SHALL BE AS FOLLOWS:
 - CONCRETE SHALL HAVE 4000 PSI MINIMUM 28 DAY COMPRESSIVE STRENGTH.
 - MAXIMUM AGGREGATE SIZE SHALL BE 3/4" (ASTM C33/467).
 - CEMENT SHALL BE ASTM C150 TYPE I OR TYPE II
 - ALL STRUCTURAL CONCRETE SHALL BE AIR ENTRAINED (5.5 +/- 1.5%).
 - SLUMP SHALL BE 2" TO 4".
- REINFORCING STEEL SHALL HAVE MINIMUM COVER PROTECTION AS FOLLOWS:
 - CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3"
 - CONCRETE EXPOSED TO EARTH OR WEATHER: 2"
 - CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:

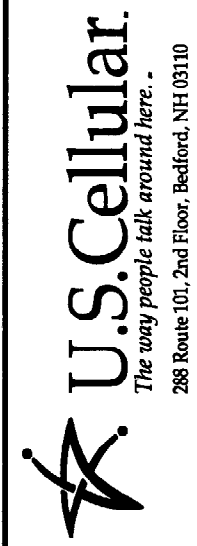
SLABS	1 1/2"
WALLS, JOISTS - #11 BAR AND SMALLER	3/4"
BEAMS, COLUMNS:	
PRIMARY REINFORCEMENT, TIES,	
STIRRUPS, SPIRALS	1 1/2"

STRUCTURAL AND MISCELLANEOUS STEEL

- STRUCTURAL STEEL DESIGN, FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH AISC - SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS - ALLOWABLE STRESS DESIGN, JUNE 1, 1989 (9TH EDITION).
- HIGH STRENGTH BOLTS SHALL BE IN ACCORDANCE WITH AISC - SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR 490 BOLTS, NOVEMBER 13, 1985.
- WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1 USE AWS PREQUALIFIED JOINT DETAILS.
- STRUCTURAL STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING:
 - CONNECTION MATERIAL, EMBEDDED ITEMS, HOT ROLLED STRUCTURAL SHAPES, BASE PLATES AND MIS. STEEL ASTM A36
 - STRUCTURAL TUBES ASTM A500 GRADE B
 - STEEL PIPE ASTM A53, GRADE B
 - STRUCTURAL BOLTS ASTM A325-W U.N.O.
 - ANCHOR BOLTS ASTM A307 OR ASTM A36
 - THREADED RODS ASTM A36 OR ASTM A307
 - WELDING ELECTRODES E70XX
- ALL STRUCTURAL STEEL SHALL BE HOT DIP GALVANIZE PER ASTM A 123.

GROUNDING NOTES:

- ALL DETAILS ARE SHOWN DIAGRAMATICALLY. ACTUAL GROUNDING INSTALLATION AND CONSTRUCTION MAY VARY DUE TO SITE SPECIFIC CONDITIONS.
- ALL GROUND WIRE SHALL BE BARE TINNED COPPER #2 AWG UNLESS OTHERWISE NOTED.
- ALL GROUND WIRES SHALL PROVIDE A STRAIGHT, DOWNWARD PATH TO GROUND WITH GRADUAL BENDS AS REQUIRED. GROUND WIRES SHALL NOT BE LOOPED OR SHARPLY BENT.
- ELECTRICAL CONTRACTOR SHALL COORDINATE CONNECTIONS TO EXISTING GROUND RINGS WITH SITE CONSTRUCTION MANAGER.
- ANTENNA GROUND KITS SHALL BE FURNISHED BY US CELLULAR AND INSTALLED BY CONTRACTOR.
- GROUND SYSTEM SHALL BE TESTED AND SHALL HAVE A RESISTANCE OF 5 OHMS OR LESS.



OEST Associates, Inc.
 343 Eastern Road • South Portland, ME 04106
 TEL: (207) 761-1770
 FAX: (207) 774-1246
 OEST PROJ. NO: 390.01.01

SITE NAME: **DOUBLE TREE HOTEL**
 SITE NUMBER: **853329**
 ADDRESS: **1230 CONGRESS STREET**
 DRAWING TITLE: **GENERAL NOTES**

REVISIONS		
No.	DESCRIPTION	DATE

FOR BLDG. PERMIT 9/24/03

DESIGNED BY: MSD	DATE: 9/24/03
DRAWN BY: TJG	SCALE: AS NOTED
CHECKED BY: MSD	PROJECT NO.: 390.01.01

Drawing No.:

Michael Deletinsky
 MICHAEL DELETINSKY
 No. 5028
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF MAINE

THIS DRAWING WAS CREATED FOR A FULL SIZE OF 22"x34". IT HAS BEEN REDUCED 50% FOR SUBMISSION PURPOSES.