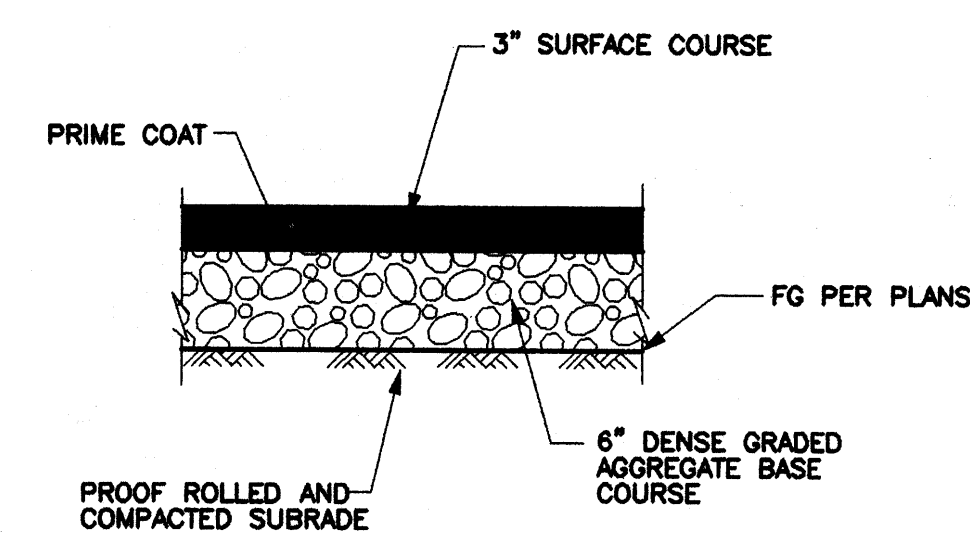


- SEE SPEC. SECTION 920 OF CITY OF ALBUQUERQUE PUBLIC WORKS STANDARD SPECIFICATIONS
- CONSTRUCT MANHOLE IN ACCORDANCE WITH THE DETAIL CRITERIA ABOVE AND PER CITY OF ALBUQUERQUE PUBLIC WORKS STANDARD DETAIL 2101 FOR TYPE "C" MH.
- SEE SPEC. SECTION 106 (GROUT AND MORTAR) OF CITY OF ALBUQUERQUE PUBLIC WORKS STANDARD SPECIFICATIONS

- CONSTRUCT CB IN ACCORDANCE WITH THE DETAIL CRITERIA ABOVE AND PER CITY OF ALBUQUERQUE PUBLIC WORKS STANDARD DETAIL 2206 (SINGLE)
- SEE SPEC. SECTION 106 (GROUT AND MORTAR) AND SPEC. SECTION 129 (DUCTILE IRON) OF CITY OF ALBUQUERQUE PUBLIC WORKS STANDARD SPECIFICATIONS FOR INSTALLATION OF DUCTILE IRON INLETS FROM ROOF LEADERS (INVERTS PER PLANS)

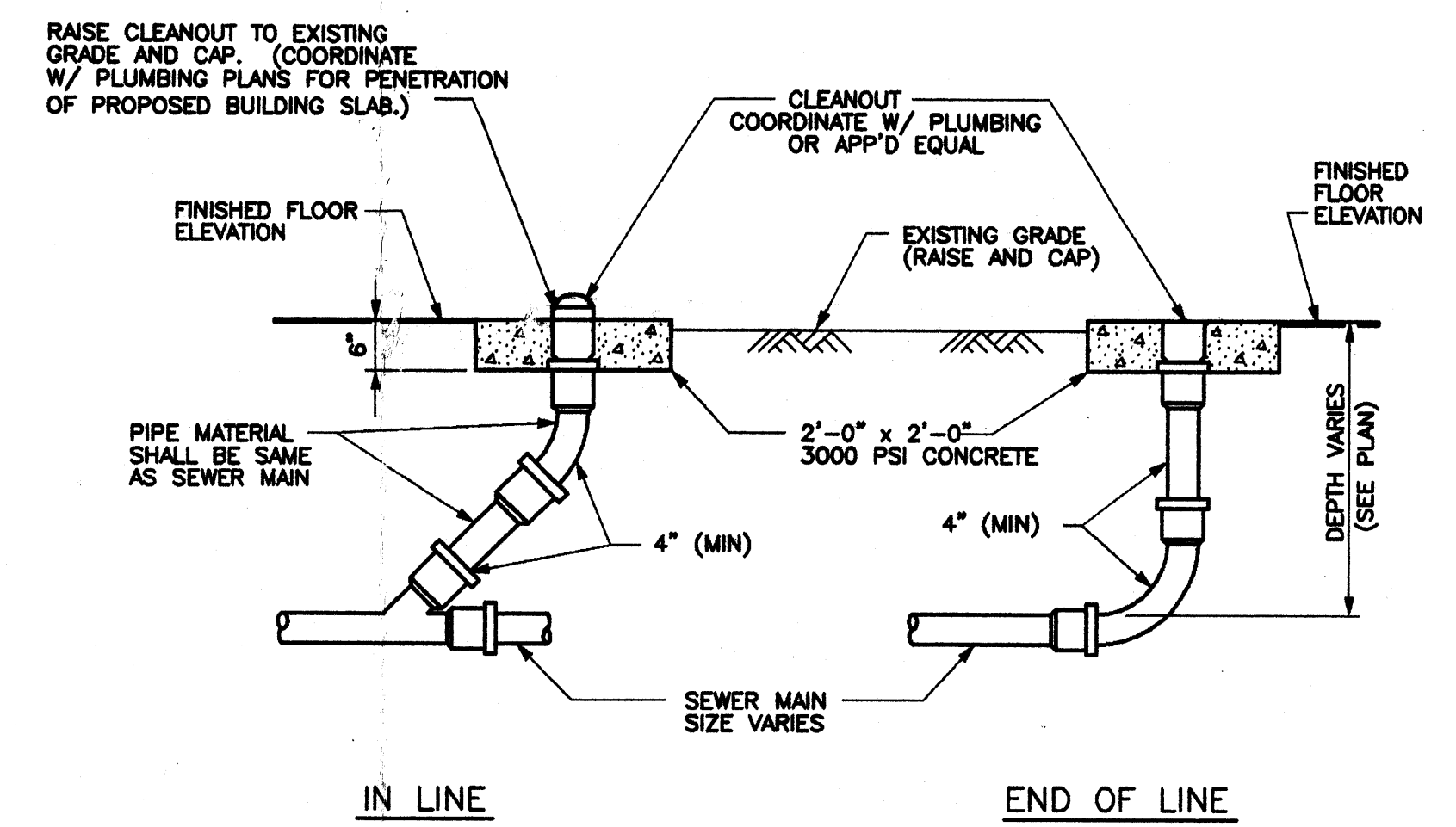
MANHOLE DETAIL
SCALE: NTS

CATCH BASIN DETAIL
SCALE: NTS

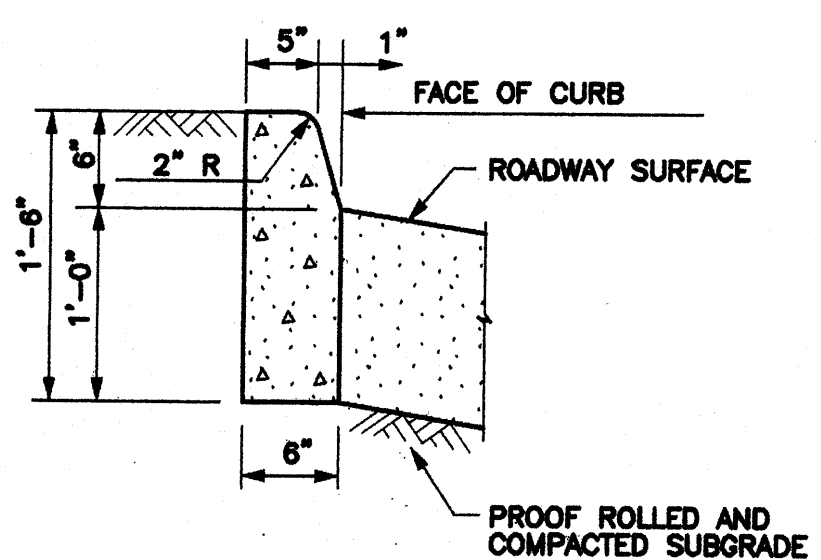


- SEE PROJECT SPEC. SECTION 02812 AND CITY OF ALBUQUERQUE PUBLIC WORKS STANDARD SPECIFICATIONS SECTION 116, TYPE "C" (1/2 IN)

TYPICAL ASPHALT CONCRETE PAVEMENT DETAIL
SCALE: NTS

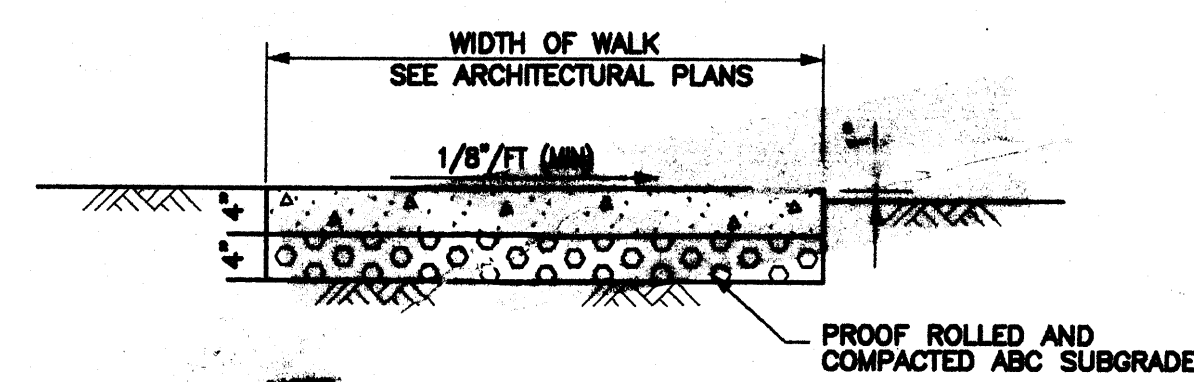


CLEANOUT DETAIL
SCALE: NTS

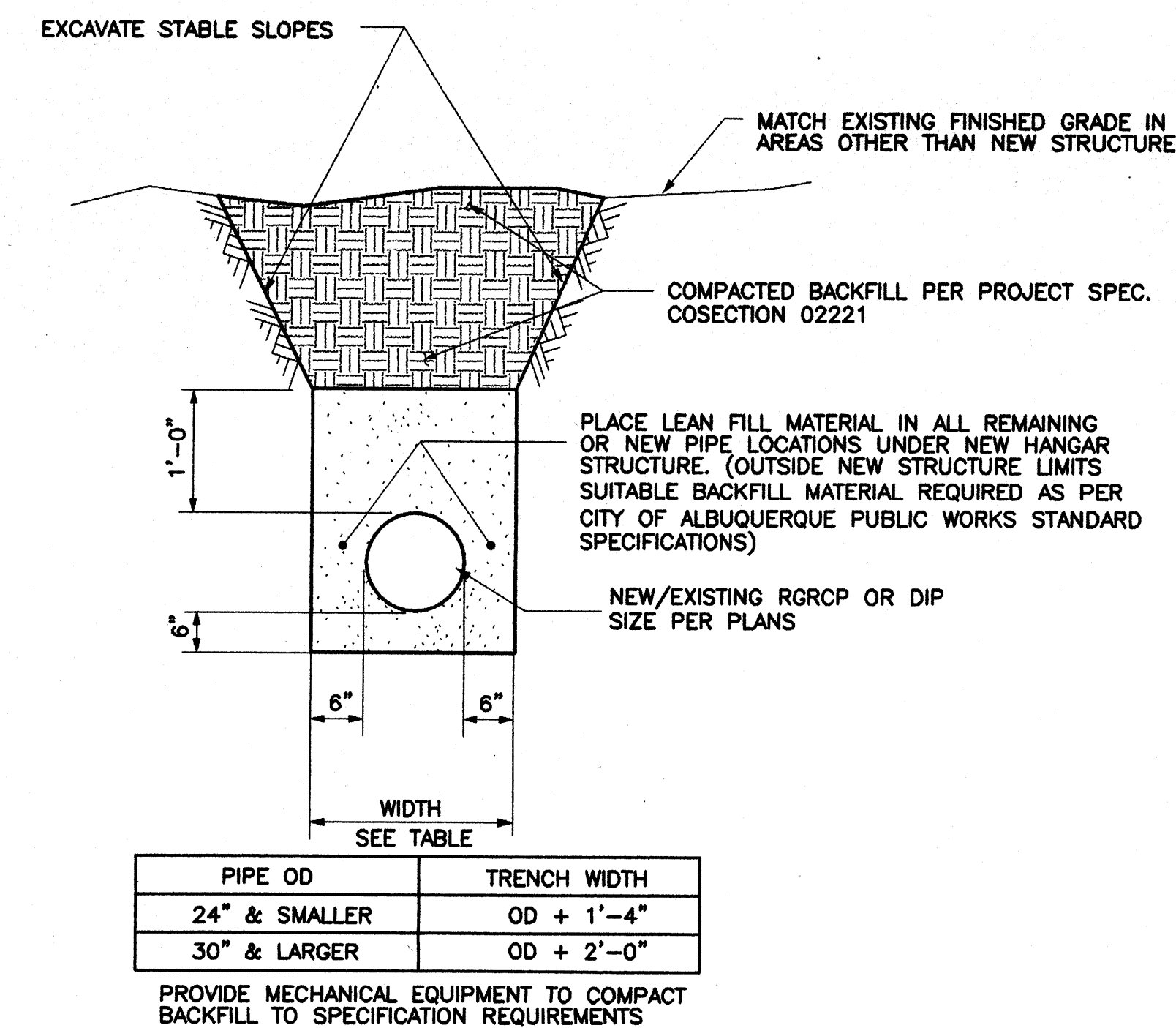


- SEE DETAIL 2415 OF CITY OF ALBUQUERQUE PUBLIC WORKS STANDARD SPECIFICATIONS

VERTICAL CURB DETAIL
SCALE: NTS



CONCRETE SIDEWALK
SCALE: NTS



- SEE SECTIONS 129 (DUCTILE IRON PIPE), 123 (REINFORCED CONCRETE PIPE), 204 (FILL CONSTRUCTION), 207 (LEAN FILL CONSTRUCTION), AND 701 (TRENCHING, EXCAVATION, AND BACKFILL) OF CITY OF ALBUQUERQUE PUBLIC WORKS STANDARD SPECIFICATIONS.

PIPE TRENCH DETAIL
SCALE: NTS

RECEIVED
MAR 03 2001
HYDROLOGY SECTION

DAVID E. MICKANEN
NEW MEXICO
14370
REGISTERED PROFESSIONAL ENGINEER
2-12-01

ECLIPSE AVIATION
2561 CLARK CARR LOOP SE, ALBUQUERQUE, NM 87106 (505) 245-7555

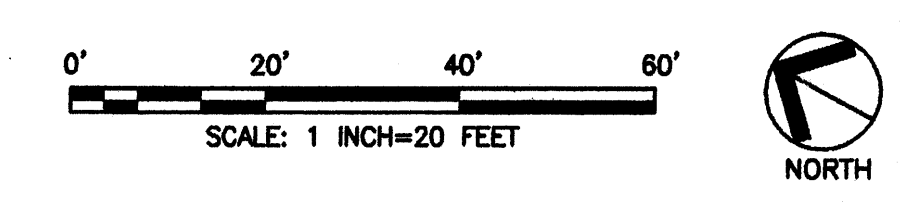
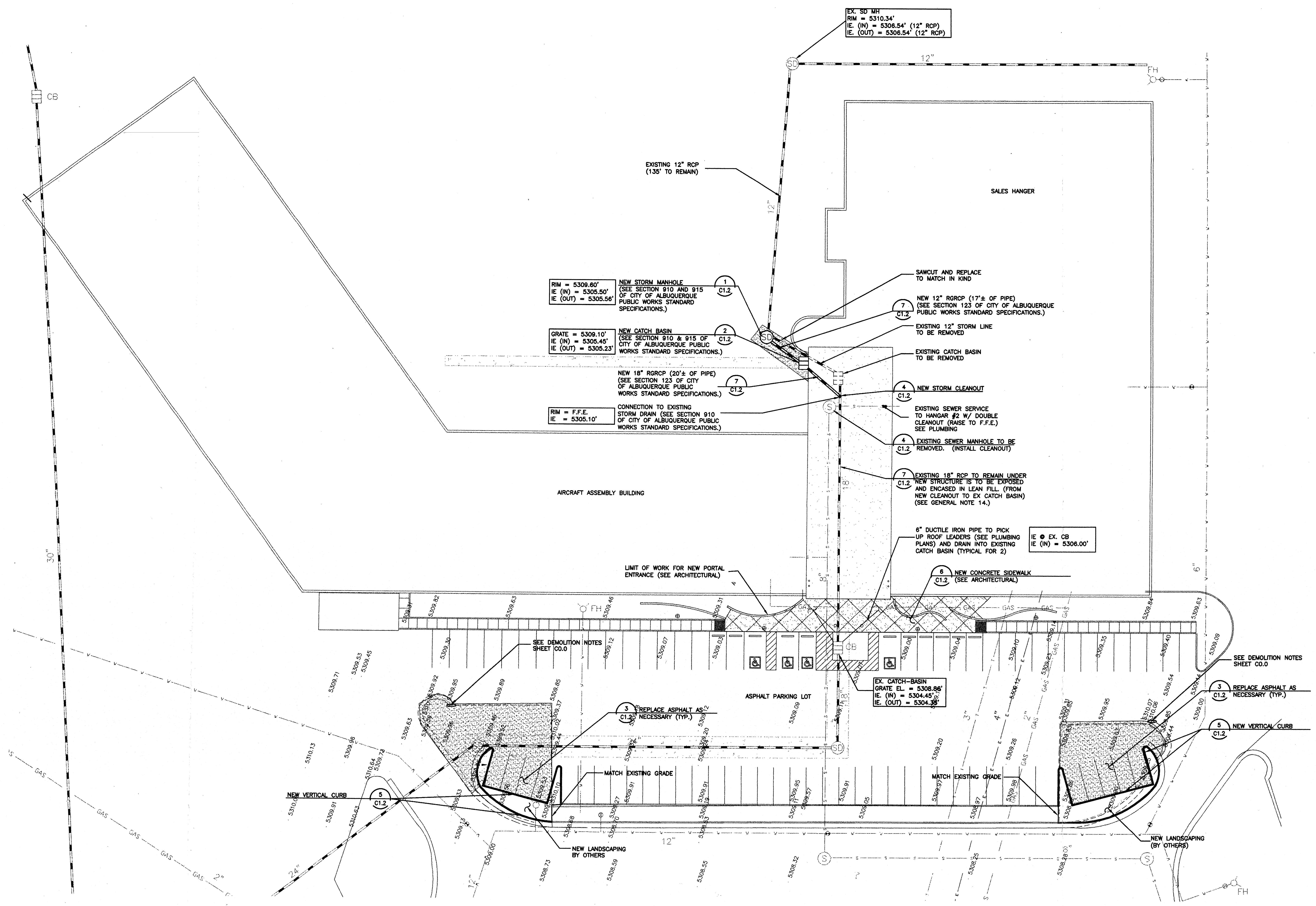
DRAWN BY: M. BALCIUS
DEPT. APPR.: D. MICKANEN
COORD. OK: D. MICKANEN
P.M. APPR.: J. ATWOOD
CLIENT APPR.: N/A

LOCKWOOD GREENE
Consulting • Design • Construction
1620 W. Fountainhead Parkway Suite 350 Tempe, Arizona 85282
(480) 829-9000 • (480) 894-8656 Fax

SHEET TITLE: DETAILS

JOB NAME: ECLIPSE AVIATION AT SUNPORT
ALBUQUERQUE INTERNATIONAL SUNPORT
ALBUQUERQUE, NM. 87106

JOB NO.: 012849
DATE: 12-FEB-2001
REV. NO.: 0
SCALE: AS NOTED
C1.2



DAVID E. MICKANEN
NEW MEXICO
14370
Professional Engineer
2-12-01

NO.	DATE	REVISION	BY	CHK.	APPR.
0	12-FEB-2001	INITIAL ISSUE	MRB	DEM	JLA

ECLIPSE AVIATION
2563 CLARK CARR LOOP SE, ALBUQUERQUE, NM 87106 (505) 245-7555

DRAWN BY: M. BALCIUS
DEPT. CH. D. MICKANEN
DEPT. APPR. D. MICKANEN
CHECKED BY: D. MICKANEN
IN CHARGE: J. ATWOOD
CLIENT APPR. N/A

LOCKWOOD GREENE
Consulting • Design • Construction
1620 W. Fountainhead Parkway Suite 350 Tempe, Arizona 85282
(480) 829-9000 • (480) 894-8656 Fax

SHEET TITLE: GRADING & DRAINAGE PLAN

JOB NAME: ECLIPSE AVIATION AT SUNPORT
ALBUQUERQUE INTERNATIONAL AIRPORT
ALBUQUERQUE, NM. 87106

JOB NO.: 012849
DATE: 12-FEB-2001
REV. NO.: 0
SCALE: 1"=20'
C1.0

ABBREVIATIONS:

AC	ACRE	ID	INSIDE DIAMETER
AGGR	AGGREGATE	IE	INVERT ELEVATION
AR	ARSON GAS	IPF	IRON PIN FOUND
AS	ASBESTOS CEMENT	IPS	IRON PIN SET
ASPH	ASPHALT		
BC	BACK OF CURB	L	LENGTH
BM	BENCH MARK	LF	LINEAR FEET
BTUM	BITUMINOUS	LP	LOW POINT
BTUMCP	BITUMINOUS COATED CORRUGATED METAL PIPE		
BTUM	BITUMINOUS	MH	MANHOLE
BLDG	BUILDING	MAX	MAXIMUM
BW	BASE OF WALL ELEVATION	MJ	MECHANICAL JOINT
		MIN	MINIMUM
		MON	MONUMENT
CATV	CABLE TELEVISION (OVERHEAD)	NG	NATURAL GAS
CATVU	CABLE TELEVISION (UNDERGROUND)	N	NITROGEN GAS
CSP	CAST IRON SOIL PIPE	NRCP	NON-REINFORCED CONCRETE PIPE
CB	CATCH BASIN	N/A	NOT APPLICABLE
C	CENTER LINE	NTS	NOT IN CONTRACT
CHW	CHILLED WATER	NO	NOT TO SCALE
CWR	CHILLED WATER RETURN		
C	CHORD LENGTH		
CO	CLEAR OUT		
CL	COLUMN	OC	ON CENTER
COL	COMPRESSED AIR	O2	OUTSIDE DIAMETER
CONC	CONCRETE		
CHU	CONCRETE MASONRY UNIT		
COND	CORRUGATED METAL PIPE	PVMT	POINT OF VERTICAL CURVE
CHP	CUBIC FEET	PC	POINT OF CURVE
CY	CUBIC YARD	PF	POINT OF FROG
C & G	CURB AND GUTTER	PI	POINT OF INTERSECTION
		PT	POINT OF TANGENCY
DIA	DIAMETER	PJF	PREFORMED JOINT FILLER
DB	DITCH BOTTOM	PVC	POINT OF VERTICAL CURVE
DW	DOMESTIC WATER	PVC	POLYVINYL CHLORIDE PIPE
DWG	DRAWING	PVI	POINT OF VERTICAL INTERSECTION
DI	DROP INLET	PVT	POINT OF VERTICAL TANGENCY
DIP	DUCTILE IRON PIPE	PE	POLYETHYLENE
		PSF	POUNDS PER SQUARE FEET
EW	EACH FACE	PSI	POUNDS PER SQUARE INCH
EOP	EDGE OF PAVEMENT	PS	POINT OF SWITCH
EU	ELECTRICAL CABLE (OVERHEAD)	PV	POST INDICATOR VALVE
EL	ELECTRICAL CABLE (UNDERGROUND)	PW	POTABLE WATER
EMH	ELECTRICAL MANHOLE	PROP	PROPOSED
ELEV	ELEVATION	R	RADIUS
EXIST	EXISTING	RR	RAILROAD
EXP	EXPANSION	RW	RAW WATER
FT	FEET	RCF	REINFORCED CONCRETE PIPE
FIN	FINISH	RGRC	RUBBER-GASKET REINFORCED CONCRETE PIPE
FF	FINISH FLOOR	R/W	RIGHT OF WAY
FFE	FINISH FLOOR ELEVATION	SS	SANITARY SEWER (GRAVITY)
FI	FINISH GRADE	SH	SHEET
PH	FIRE HYDRANT	S	SLOPE
FL	FIRE WATER	SP	SPLASH PAD
FES	FLARED END SECTION	STA	STATION
FL	FLOOR	SD	STORM DRAIN SEWER
FM	FORCE MAIN	SF	SQUARE FEET
FP	FIRE PROTECTION	SQ	SQUARE
G	GRATE	T	TANGENT LENGTH
GAL	GALLON	TEL	TELEPHONE CABLE (UNDERGROUND)
GPM	GALLONS PER MINUTE	TBM	TEMPORARY BENCH MARK
GS	GALVANIZED STEEL	TE	TOP ELEVATION
GV	GATE VALVE	TOC	TOP OF CURB ELEVATION
GE	GUTTER ELEVATION	TOD	TOP OF DRAIN ELEVATION
HDCP	HANDICAP	TOW	TRENCH DRAIN
HDWL	HEADWALL	TYP	TYPICAL
HDPE	HIGH DENSITY POLYETHYLENE	TOP	TOP OF PAVEMENT ELEVATION
HP	HIGH POINT	TOS	TOP OF SLAB ELEVATION
HW	HOT WATER	T&B	TOP AND BOTTOM
HWR	HOT WATER RETURN	VC	VERTICAL CURVE
H	HYDROGEN GAS	VCP	VITRIFIED CLAY PIPE
		WD	WIDE

SECTION AND DETAIL IDENTIFICATION:

SECTION NUMBER OR DETAIL LETTER
 SECTION OR DETAIL
 SCALE: 1" = 10'-0"
 DWG WHERE SECTION OR DETAIL IS DRAWN

* NOT ALL SYMBOLS SHOWN ARE APPLICABLE TO THIS PROJECT.
 ** SEE ABBREVIATIONS LISTING FOR UTILITY IDENTIFICATION.

PROJECT INFORMATION

ADDRESS: 2503 CLARK CARR LOOP SE
 ALBUQUERQUE, NEW MEXICO 87106
 ZONING CLASSIFICATION: SU-1
 BUILDING CODE: UBC - 1997 / ALBUQUERQUE UAC
 CONSTRUCTION TYPE: V-N
 SITE AREA: 348,562 S.F. OR 7.88 ACRES±
 TOTAL CROSS-BLDG. AREA: 89,981 S.F.
 OCCUPANCY CLASSIFICATION: F-1, B

OWNER/DEVELOPER:
 ECLIPSE AVIATION, INC.
 ECLIPSE FACILITY
 2503 CLARK CARR LOOP SE
 ALBUQUERQUE, NEW MEXICO 87106
 ATTN: DOUG LANE
 505-245-7555
 FAX 505-245-7888

ENGINEER/ARCHITECT:
 LOCKWOOD GREENE
 1620 W. FOUNTAINHEAD PARKWAY
 SUITE 350
 TEMPE, ARIZONA 85282
 ATTN: DAVID E. MICKANEN, PE
 480-829-9000
 FAX 480-894-8656

CIVIL SHEET INDEX

LEGEND, SYMBOLS, AND NOTES
 GRADING AND DRAINAGE PLAN
 DETAILS

C0.0
 C1.0
 C1.2

GENERAL NOTES

- ALL EXISTING SITE INFORMATION: TOPOGRAPHY, BUILDING LOCATIONS, ROADS & PAVEMENT LOCATIONS AND SITE UTILITIES, WERE OBTAINED FROM A SURVEY PREPARED BY: SURV-TEK, INC. 5642 PARADISE BLVD. N.W., ALBUQUERQUE, NM 87114 CALLED TOPOGRAPHIC/DESIGN SURVEY OF ECLIPSE AVIATION, ALBUQUERQUE INTERNATIONAL AIRPORT, BERNALILLO COUNTY, NM AND DATED FEBRUARY 8, 2001.
- THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATIONS AS TO THE TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE. THEREFORE, CONTRACTOR SHALL USE EXTREME CARE WHEN PERFORMING ANY DEMOLITION OR GRADING OPERATIONS IN THE PROXIMITY OF THESE EXISTING UTILITIES. ANY DAMAGE TO EXISTING UTILITIES WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. NOTIFY OWNER WHEN ANY UNIDENTIFIED UTILITIES ARE DISCOVERED.
- VISIT THE SITE AND MAKE ALL INVESTIGATIONS NECESSARY TO DETERMINING THE EXTENT OF THE WORK REQUIRED TO CONSTRUCT THE PROJECT.
- ANY DAMAGE TO EXISTING IMPROVEMENTS, SUCH AS, BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURB, ETC. CAUSED BY THE CONTRACTOR DURING CONSTRUCTION, SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- OBTAIN WRITTEN AUTHORIZATION FROM THE OWNER'S REPRESENTATIVE AND FROM THE UTILITY OWNERS PRIOR TO INTERRUPTING ANY EXISTING UTILITY (IE: WATER, SEWER, GAS, ELECTRICAL, OR TELEPHONE).
- CONSTRUCTION ACCESS TO BE AT DESIGNATED LOCATION ONLY.
- ALL WORK SHALL COMPLY WITH APPLICABLE STATE, FEDERAL AND LOCAL CODES. ALL NECESSARY LICENSES SHALL BE OBTAINED BY THE CONTRACTOR AT HIS EXPENSE.
- DEVIATIONS FROM THESE PLANS AND SPECIFICATIONS WITHOUT WRITTEN CONSENT OF THE ARCHITECT/ENGINEER MAY BE CAUSE FOR THE WORK TO BE UNACCEPTABLE TO THE ENGINEER.
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND ADHERING TO THE CITY OF ALBUQUERQUE DEPARTMENT OF PUBLIC WORKS STANDARD DETAILS AND SPECIFICATIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL MEASUREMENTS AND DIMENSIONS PRIOR TO ORDERING ANY MATERIALS OR CONDUCTING ANY WORK.
- ARCHITECT/ENGINEER SHALL BE NOTIFIED A MINIMUM OF FORTY-EIGHT (48) HOURS FOR SITE INSPECTION, TESTING, VERIFICATIONS, AND FOR ANY OTHER PORTION OF THE WORK REQUIRING ENGINEERS SERVICES AT SITE.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF ALBUQUERQUE PUBLIC WORKS STANDARDS AND SPECIFICATIONS.
- AGGREGATE BASE COURSE MATERIAL SHALL BE IN ACCORDANCE WITH CITY OF ALBUQUERQUE PUBLIC WORKS STANDARD DETAILS AND SPECIFICATIONS AND HAVE A MINIMUM THICKNESS OF 6 INCHES COMPACTED TO 95% OF MAXIMUM DRY DENSITY AS INDICATED BY ASTM D1557, UNLESS OTHERWISE INDICATED ON THE PLANS.
- CONTRACTOR SHALL ENCASE ALL STORM SEWER WITHIN LIMITS OF NEW STRUCTURE (EXISTING OR NEW) IN LEAN FILL MATERIAL. LEAN FILL SHALL BE A MIXTURE OF PORTLAND CEMENT, AGGREGATE AND WATER HAVING A SLUMP OF 7±1 PER ASTM C-143 AND SHALL BE AS PER CITY OF ALBUQUERQUE PUBLIC WORKS STANDARD SPECIFICATIONS SECTION 207.

UTILITY NOTES

- ALL FIRE PROTECTION AND POTABLE WATER LINES SHALL HAVE A MINIMUM 3.0' OF COVER.
- SEE MECHANICAL AND PLUMBING DRAWINGS FOR CONTINUATION OF UTILITY LINES WITHIN 5' OF THE LIMITS OF THE BUILDING.
- SEE ELECTRICAL SITE PLAN FOR LOCATION OF LIGHT POLES, POWER POLES, POWER LINES, COMMUNICATION LINES AND DUCT BANKS.
- VERIFY LOCATIONS AND INVERT ELEVATIONS AT ALL PIPE CROSSINGS, INTERSECTIONS, PLUGS, BENDS, AND ENDS OF PIPE FOR ALL NEW UTILITY CONSTRUCTION AND ANY EXISTING LINES PRIOR TO START OF CONSTRUCTION. MAKE MODIFICATIONS, IF REQUIRED, TO ENSURE THE CLEARANCE BETWEEN ALL UTILITIES IS ADEQUATE, MEETS SPECIFICATIONS, AND TO AVOID CONFLICTS.
- THE TOP ELEVATION OF MANHOLES CONSTRUCTED IN PAVED AREAS SHALL MATCH FINISH GRADE. THE TOP ELEVATION OF MANHOLES CONSTRUCTED IN GRASS AREAS SHALL BE SIX (6") INCHES ABOVE FINISH GRADE.
- CONTRACTOR SHALL GROUT AROUND ALL PIPE ENTRANCES TO SEWER MANHOLES WITH NON-SHRINKING GROUT TO ASSURE WATER-TIGHT CONNECTION.
- CONTRACTOR SHALL COORDINATE INSPECTION WITH APPROPRIATE AUTHORITIES PRIOR TO COVERING TRENCHES AT INSTALLATION.
- CONSTRUCTION SHALL COMPLY WITH GOVERNING CODES AND REQUIREMENTS. CONTRACTOR SHALL REQUIRED TESTS TO THE SATISFACTION OF THE UTILITY COMPANIES AND OWNERS INSPECTING AUTHORITIES.
- CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST STANDARDS OF OSHA DIRECTIVES, INCLUDING 29 CFR PART 1926 SUBPART P, OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURE. (SEE CITY OF ALBUQUERQUE PUBLIC WORKS STANDARD SPECIFICATIONS) CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING AND OTHER MEANS OF PROTECTION, THIS IS TO INCLUDE, BUT NOT LIMITED TO, ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. CONTRACTOR IS RESPONSIBLE TO COMPLY WITH PERFORMANCE CRITERIA FOR OSHA.
- NEW DUCTILE IRON PIPE AND FITTINGS SHALL BE AS PER PROJECT SPEC SECTION 02555 AND IN ACCORDANCE WITH CITY OF ALBUQUERQUE PUBLIC WORKS SPECIFICATIONS SECTION 129.
- NEW DOMESTIC WATER SERVICE LINE SHALL BE IN ACCORDANCE WITH CITY OF ALBUQUERQUE PUBLIC WORKS SPECIFICATIONS AND DETAILS.
- NEW FIRE LINE INSTALLATION SHALL CONFORM TO THE APPLICABLE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS AND DETAILS AND SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE.
- BEDDING AND BACK FILL FOR SANITARY SEWER LATERALS SHALL CONFORM TO CITY OF ALBUQUERQUE PUBLIC WORKS SPECIFICATIONS AND DETAILS.
- ALL SEWER CONNECTIONS AND CLEAN OUT CONSTRUCTION SHALL CONFORM TO CITY OF ALBUQUERQUE PUBLIC WORKS SPECIFICATIONS AND DETAILS. EXISTING SEWER TAPS ARE SHOWN ON PLANS.
- THRUST BLOCKS FOR WATER LINES SHALL BE IN ACCORDANCE WITH CITY OF ALBUQUERQUE PUBLIC WORKS DETAIL 2320.
- NEW STORM SEWER PIPES, JOINTS, SPECIALS, AND MANHOLES SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF ALBUQUERQUE PUBLIC WORKS SPECIFICATIONS SECTIONS 910 AND 915 AND ALL ASSOCIATED DETAILS.
- FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF ALBUQUERQUE PUBLIC WORKS SPECIFICATION AND ALL ASSOCIATED DETAILS.
- SANITARY AND STORM SEWER MANHOLES SHALL CONFORM TO CITY OF ALBUQUERQUE PUBLIC WORKS SPECIFICATION SECTION 920 AND ALL ASSOCIATED DETAILS.
- NEW RGRC STORM SEWER PIPE SHALL CONFORM WITH ASTM C-76 FOR CLASS III STRENGTH AND SHALL COMPLY WITH PROJECT SPEC. SECTION 02550 AND BE ACCORDANCE WITH CITY OF ALBUQUERQUE PUBLIC WORKS SPECIFICATION SECTIONS 123, 910, AND 915 AND ALL ASSOCIATED DETAILS.
- PORTLAND CEMENT CONCRETE SHALL BE 3,000 PSI TYPE II CEMENT CONCRETE AS PER PROJECT SPEC. 03300 AND CITY OF ALBUQUERQUE PUBLIC WORKS SPECIFICATION SECTION 101.

DEMOLITION NOTES

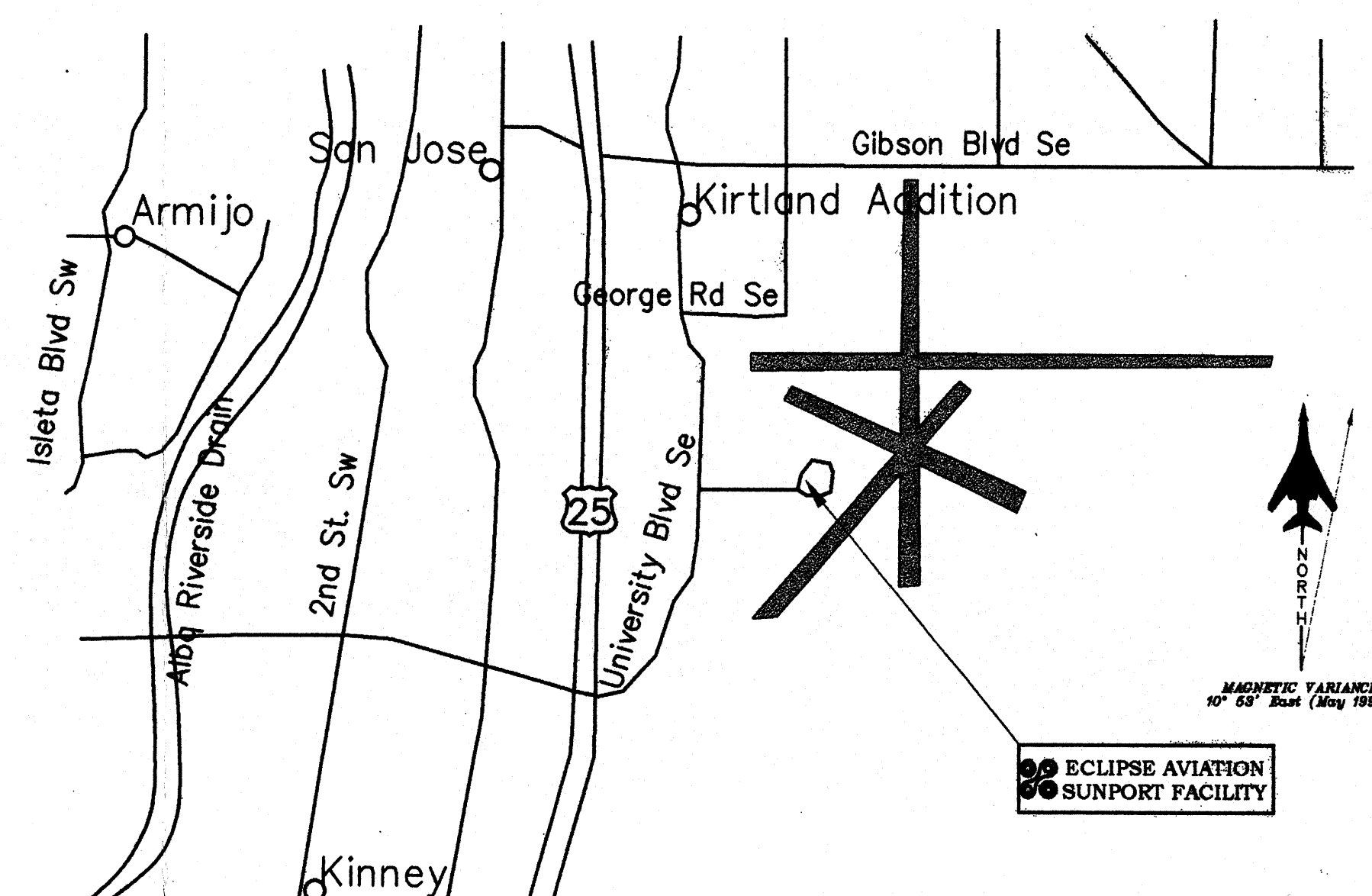
- DEMOLITION TO CONFORM TO CITY OF ALBUQUERQUE PUBLIC CODES.
- VISIT SITE AND DETERMINE EXTENT OF DEMOLITION REQUIRED.
- COORDINATE DEMOLITION WORK WITH WORK ALREADY UNDER CONTRACT AND SCHEDULE ACTIVITIES WITH CONTRACTOR. COORDINATE DEMOLITION TO ACCOMMODATE OWNER'S OPERATIONS AND MAINTAIN SITE SECURITY/SAFETY.
- DISPOSE OF UNSALVAGED DEMOLISHED MATERIALS OFF SITE IN A LEGAL MANNER.
- STOCKPILE SALVAGED DEMOLISHED MATERIALS ON SITE AS DIRECTED BY CONTRACTOR.
- LOCATE AND MARK ALL EXISTING UTILITY LINES TO BE ABANDONED AND OBTAIN CONTRACTOR APPROVAL PRIOR TO DEMOLITION.
- PLUG OPEN ENDS OF ABANDONED GRAVITY UTILITY LINES WITH CONCRETE. USE SUITABLE PLUG WITH CONCRETE THRUST BLOCKING (NFPA 24) FOR PRESSURE PIPE.
- DEMOLISH EXISTING UNDERGROUND UTILITIES INDICATED TO BE ABANDONED AS REQUIRED TO FACILITATE PROPOSED CONSTRUCTION.
- DO NOT DISTURB EXISTING UTILITIES TO REMAIN IN SERVICE. DO NOT REMOVE EXISTING UTILITIES TO BE DEMOLISHED UNTIL PROPOSED UTILITY CONSTRUCTION IS COMPLETED AND IN SERVICE. DEMOLISH OR ABANDON EXISTING UTILITIES AS INDICATED AFTER PROPOSED INSTALLATION IS TESTED AND ACCEPTED BY CONTRACTOR.
- SAW CUT EXISTING PAVEMENT AT LIMITS OF DEMOLITION OR REMOVE TO THE NEXT NEAREST JOINT BEYOND LIMITS OF DEMOLITION, IF CONCRETE. REPLACE PAVEMENT WHEN REMOVAL EXTENDS BEYOND LIMITS OF DEMOLITION.
- REPAIR OR REPLACE DAMAGED ITEMS NOT DESIGNATED TO BE DEMOLISHED. RESTORE TO ORIGINAL CONDITION AS DIRECTED BY CONTRACTOR AT NO ADDITIONAL COST TO OWNER.
- POLLUTION CONTROLS: USE WATER SPRINKLING AND OTHER SUITABLE METHODS AS NECESSARY TO LIMIT THE AMOUNT OF DUST AND DIRT RISING AND SCATTERING IN THE AIR, TO THE LOWEST LEVEL OF AIR POLLUTION PRACTICAL FOR THE CONDITION OF WORK.
- WORK TO BE DEMOLISHED BY CONTRACTOR IS SHOWN ON THE GRADING AND DRAINAGE PLAN AS GREY AND DASHED LINETYPE.

GRADING AND DRAINAGE NOTES

- HAUL PERMITS, WHEN REQUIRED, MUST BE OBTAINED PRIOR TO OR CONCURRENTLY WITH THE GRADING AND DRAINAGE PERMIT.
- EXCAVATION CONTRACTOR MUST GIVE LOCATION FOR WASTING EXCESS EXCAVATION AND A LETTER FROM THE OWNER GIVING PERMISSION FOR DUMPING PRIOR TO STARTING ON SITE CONSTRUCTION. IF EXCESS EXCAVATION EXCEEDS 100 CUBIC YARDS, THE DISPOSAL SITE WILL ALSO REQUIRE A GRADING AND DRAINAGE PERMIT.
- CONTACT MR. JIM HINDE WITH THE CITY OF ALBUQUERQUE SUNPORT AUTHORITY 48 HRS BEFORE ANY ON-SITE AND/OR OFF-SITE CONSTRUCTION BEGINS, TELEPHONE (505) 244-7805.
- AN APPROVED GRADING AND DRAINAGE PLAN SHALL BE KEPT ON THE JOBSITE AT ALL TIMES. DEVIATION FROM THE PLAN MUST BE PRECEDED BY AN APPROVED PLAN REVISION.
- GRADING AND DRAINAGE PLAN APPROVAL INCLUDES THE CONSTRUCTION OF ALL SURFACE IMPROVEMENTS SHOWN ON THE APPROVED PLAN, INCLUDING, BUT NOT LIMITED TO, RETENTION AREAS, SEDIMENTATION BASINS, AND/OR OTHER DRAINAGE FACILITIES, DRAINAGE PATTERNS, WALLS, CURBS, ASPHALT PAVEMENT, AND BUILDING FLOOR ELEVATIONS.
- ALL DRAINAGE PROTECTIVE DEVICES SUCH AS SWALES, INTERCEPTOR DITCHES, PIPES, PROTECTIVE BERMS, BARRIER WALLS, CONCRETE CHANNELS, OR OTHER MEASURES DESIGNED TO PROTECT ADJACENT BUILDINGS OR PROPERTY FROM STORM RUNOFF MUST BE COMPLETED PRIOR TO BUILDING CONSTRUCTION.
- DAMAGED AND/OR DISPLACED CONCRETE CURB, GUTTER, SIDEWALK, OR DRIVEWAY SLAB THAT IS WITHIN THE RIGHT-OF-WAY SHALL BE REPAIRED OR REPLACED, AS NOTED BY CITY INSPECTORS, BEFORE FINAL ACCEPTANCE OF THE WORK.
- CONSTRUCTION WITHIN THE RIGHT-OF-WAY SHALL CONFORM TO THE LATEST APPLICABLE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- COMPACTION SHALL COMPLY WITH CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS SECTION 204.
- OBSTRUCTIONS TO PROPOSED IMPROVEMENTS IN THE RIGHT-OF-WAY SHALL BE REMOVED OR RELOCATED BEFORE BEGINNING CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.
- CONTRACTOR SHALL MAKE ADJUSTMENTS TO PAVING AND GRADING ELEVATIONS AS NECESSARY TO INSURE A SITE FREE OF DRAINAGE PROBLEMS.
- CONTRACTOR SHALL SAVORIT EXISTING PAVEMENT FOR NEW WORK. NEW PAVEMENT SHALL GRADE TO DRAIN AND MATCH EXISTING PAVEMENT ELEVATIONS WHERE NEW MEETS EXISTING.

CITY LEGEND

EXISTING	PROPOSED
	BUILDING
	ASPHALT PAVEMENT
	ASPHALT OVERLAY
	CONCRETE
	FENCE
	STORM DRAIN
	TRENCH DRAIN
	SANITARY SEWER
	FIRE PROTECTION
	WATER PIPE
	NATURAL GAS
	UNDERGROUND ELECTRICAL
	UNDERGROUND TELEPHONE
	WATER METER
	MANHOLE
	GRATE INLET
	CURB AND GUTTER
	FIRE HYDRANT
	WATER VALVE
	SPOT ELEVATIONS
	INVERT ELEVATION
	DUCTILE IRON PIPE
	RUBBER GASKET REINFORCED CONCRETE PIPE
	ELEVATION
	FINISH FLOOR
	FINISH GRADE
	EDGE OF PAVEMENT
	HIGH POINT
	CLEAN OUT
	GRATE



VICINITY MAP

DRAINAGE SCOPE:

THE SCOPE OF WORK INCLUDED IN THE DESIGN IS THE RELOCATION OF A CATCH BASIN, THE ADDITION OF A 17 FOOT LENGTH OF 12" RGRC, THE ADDITION OF A 20 FOOT LENGTH OF 18" RGRC, INSTALLING A NEW STORM DRAIN MANHOLE, AND INSTALLING A NEW CLEANOUT WHERE THE NEW STORM DRAIN TIES INTO THE EXISTING STORM DRAIN SYSTEM.

DUE TO THE NEW SCOPE OF WORK NOT IMPACTING OR AFFECTING THE EXISTING SITE DRAINAGE, NO HYDRAULIC CALCULATIONS ARE REQUIRED.

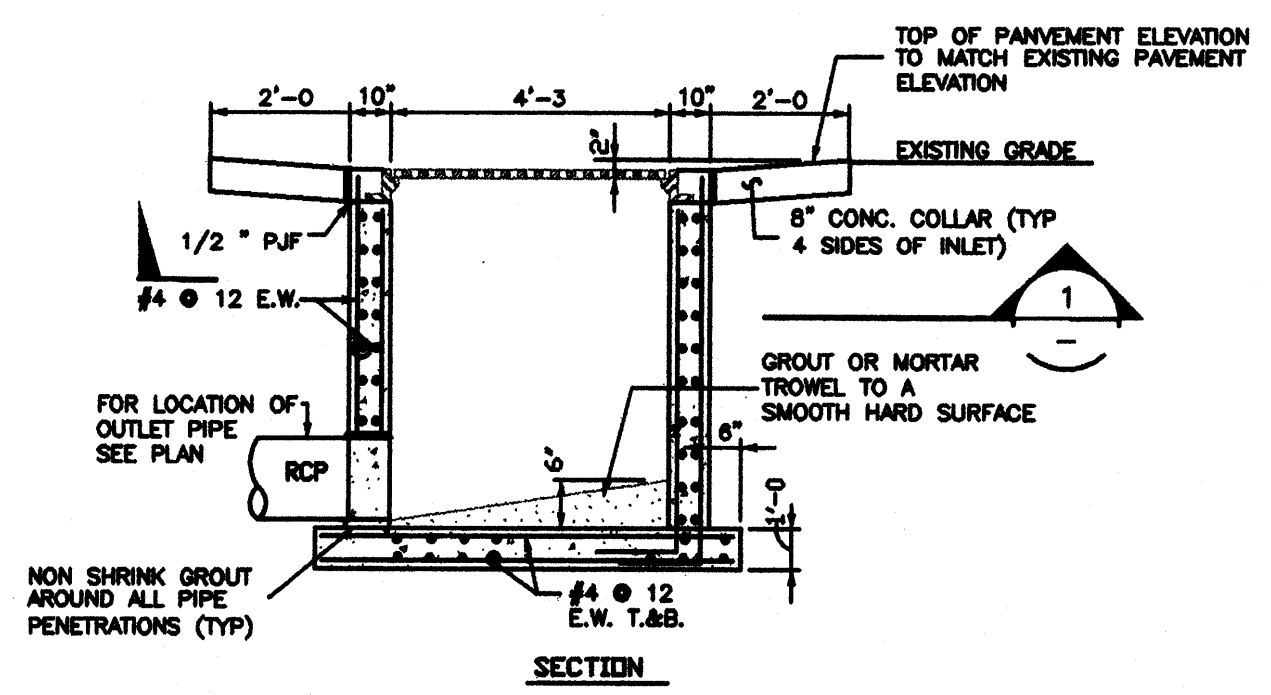
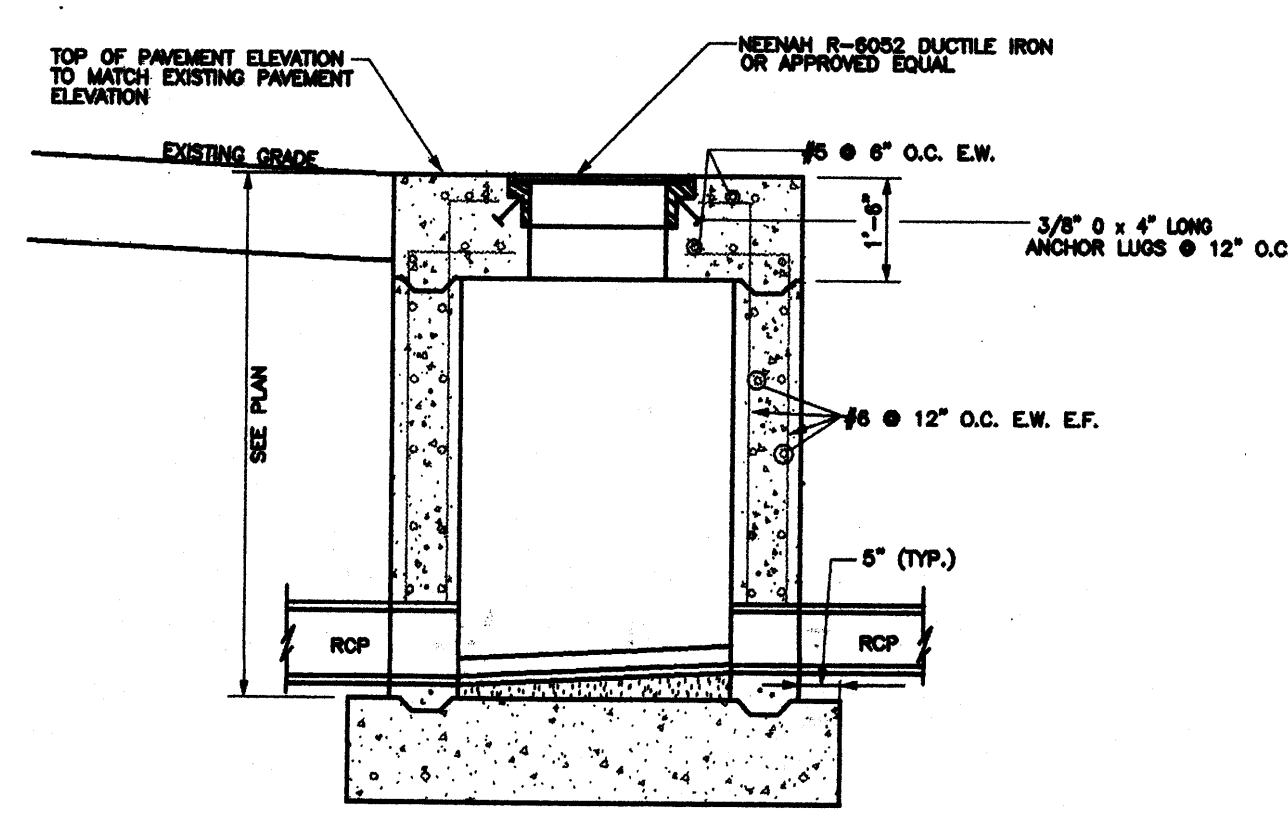
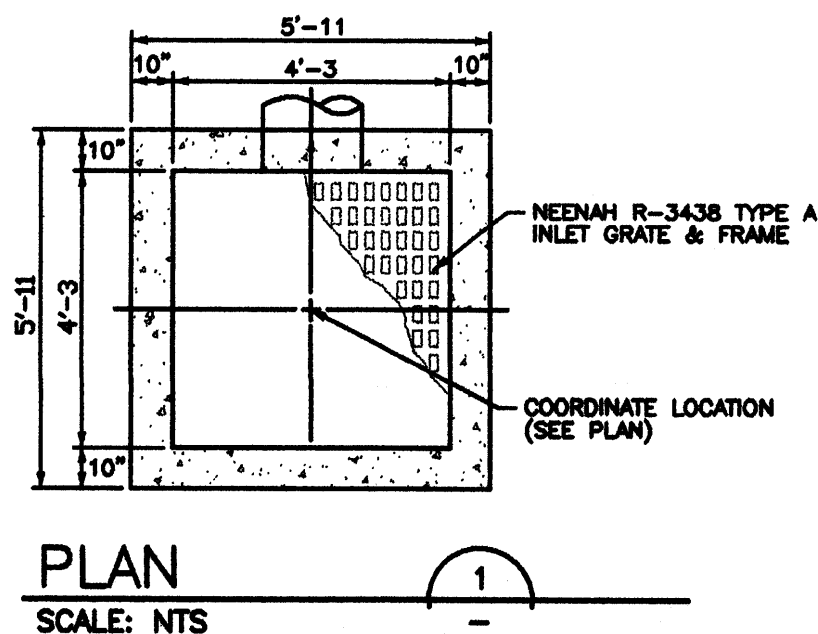
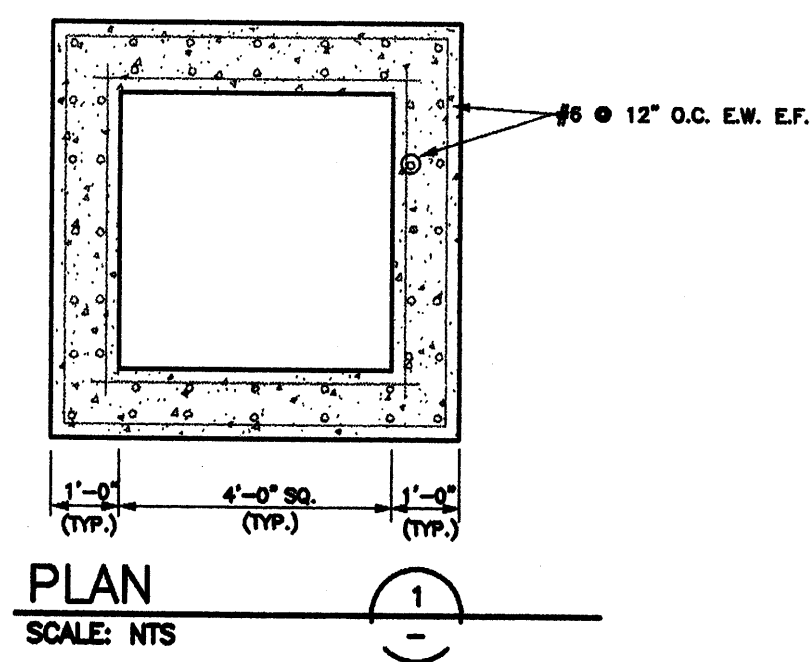
DRAWN BY: M. BALCIUS
 DESIGNED BY: D. MICKANEN
 CHECKED BY: D. MICKANEN
 P.M. APPR. J. ATWOOD
 CLIENT APPR. N/A

LOCKWOOD GREENE
 Consulting • Design • Construction
 1620 W. Fountainhead Parkway Suite 350 Tempe, Arizona 85282
 (480) 829-9000 • (480) 894-8656 Fax

LEGEND, SYMBOLS, AND NOTES

ECLIPSE AVIATION AT SUNPORT
 ALBUQUERQUE INTERNATIONAL SUNPORT
 ALBUQUERQUE, NM. 87106

JOB NO. 012849
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 SCALE AS NOTED
 C0.0

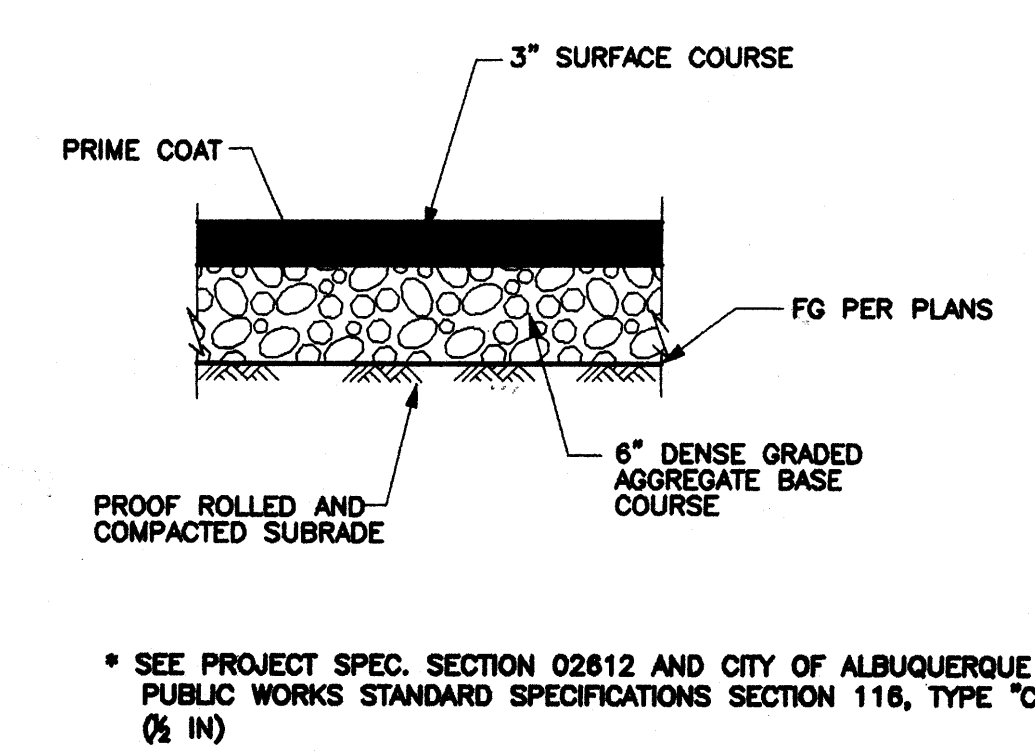


- * SEE SPEC. SECTION 920 OF CITY OF ALBUQUERQUE PUBLIC WORKS STANDARD SPECIFICATIONS
- * CONSTRUCT MANHOLE IN ACCORDANCE WITH THE DETAIL CRITERIA ABOVE AND PER CITY OF ALBUQUERQUE PUBLIC WORKS STANDARD DETAIL 2101 FOR TYPE "C" MH.
- * SEE SPEC. SECTION 106 (GROUT AND MORTAR) OF CITY OF ALBUQUERQUE PUBLIC WORKS STANDARD SPECIFICATIONS

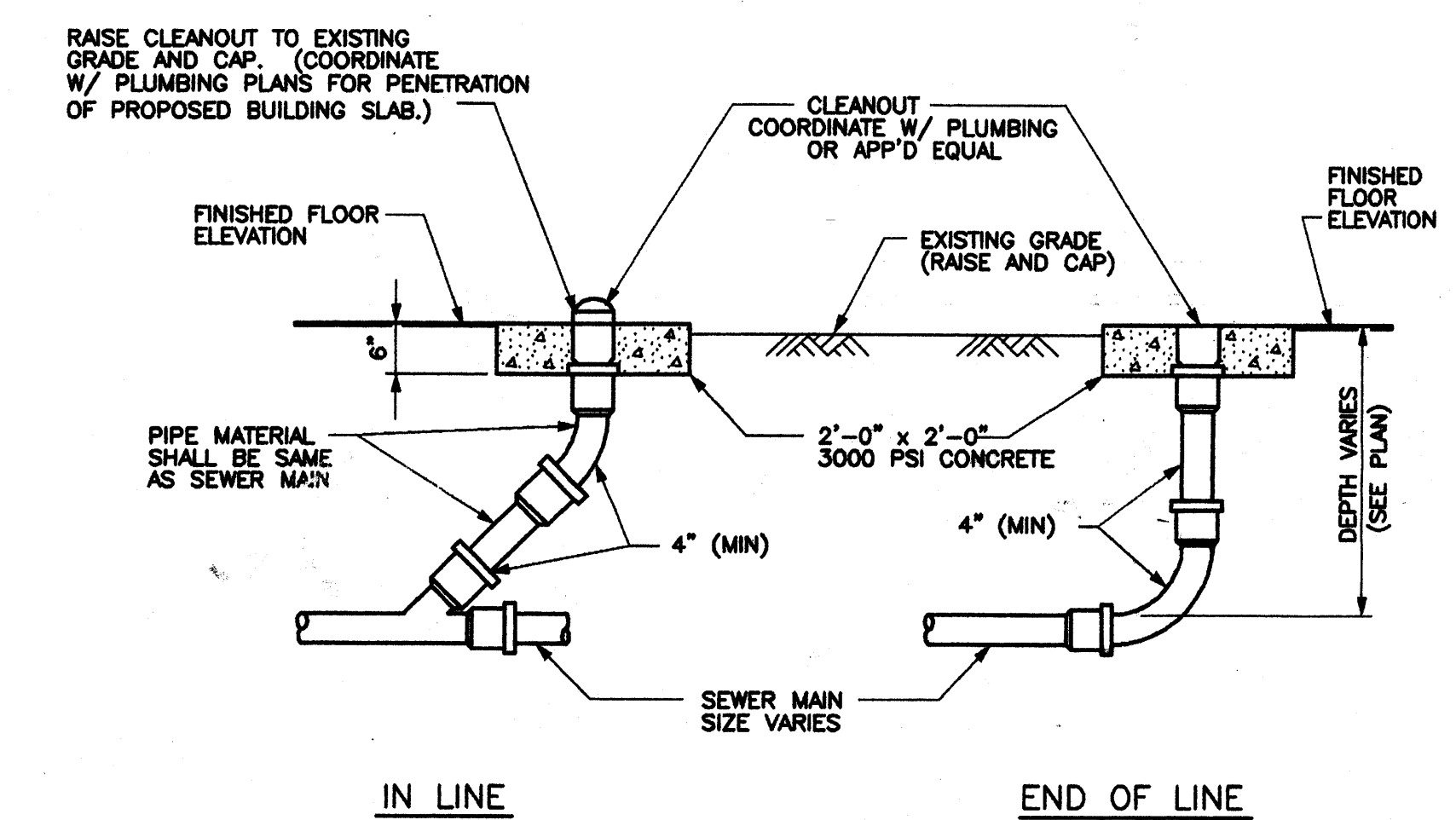
- * CONSTRUCT CB IN ACCORDANCE WITH THE DETAIL CRITERIA ABOVE AND PER CITY OF ALBUQUERQUE PUBLIC WORKS STANDARD DETAIL 2206 (SINGLE)
- * SEE SPEC. SECTION 106 (GROUT AND MORTAR) AND SPEC. SECTION 129 (DUCTILE IRON) OF CITY OF ALBUQUERQUE PUBLIC WORKS STANDARD SPECIFICATIONS FOR INSTALLATION OF DUCTILE IRON INLETS FROM ROOF LEADERS (INVERTS PER PLANS)

MANHOLE DETAIL
SCALE: NTS

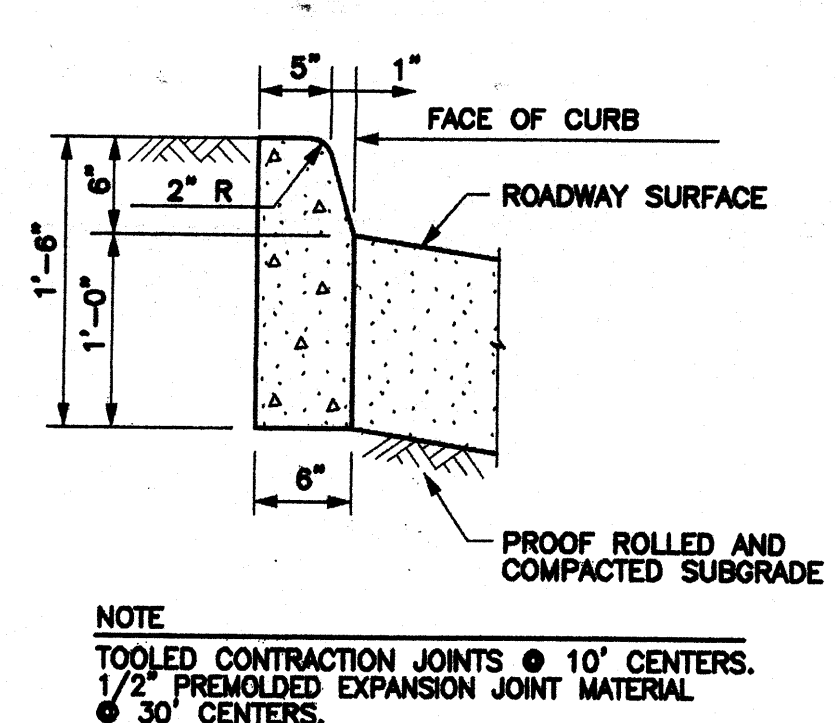
CATCH BASIN DETAIL
SCALE: NTS



TYPICAL ASPHALT CONCRETE PAVEMENT DETAIL
SCALE: NTS

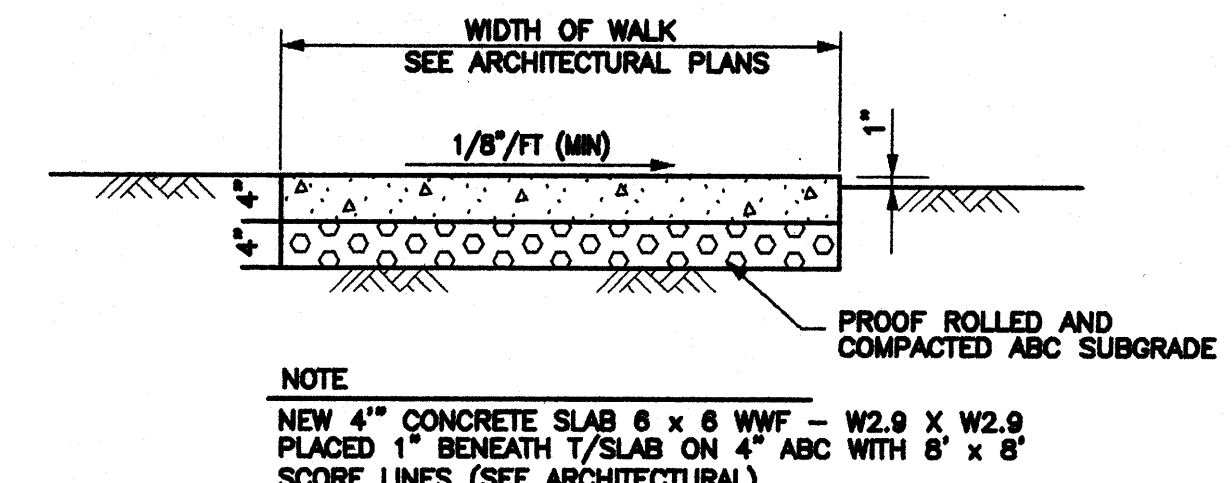


CLEANOUT DETAIL
SCALE: NTS

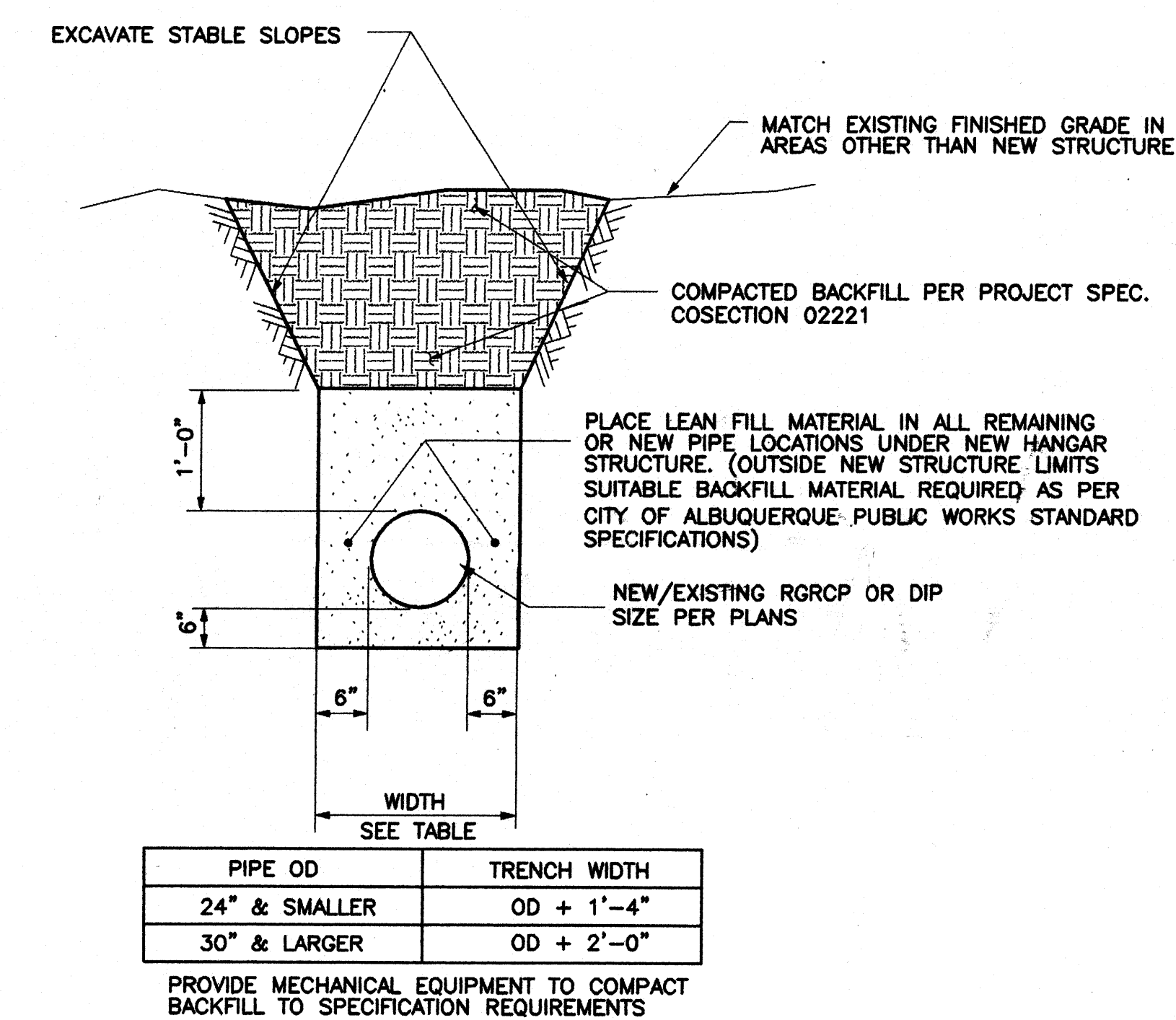


- * SEE DETAIL 2415 OF CITY OF ALBUQUERQUE PUBLIC WORKS STANDARD SPECIFICATIONS

VERTICAL CURB DETAIL
SCALE: NTS



CONCRETE SIDEWALK
SCALE: NTS

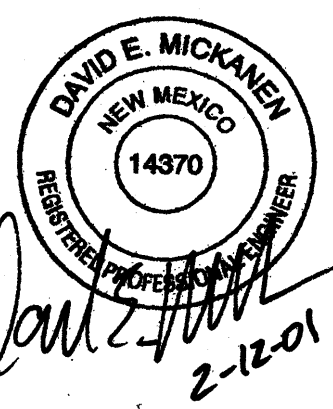
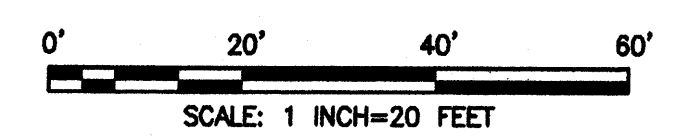
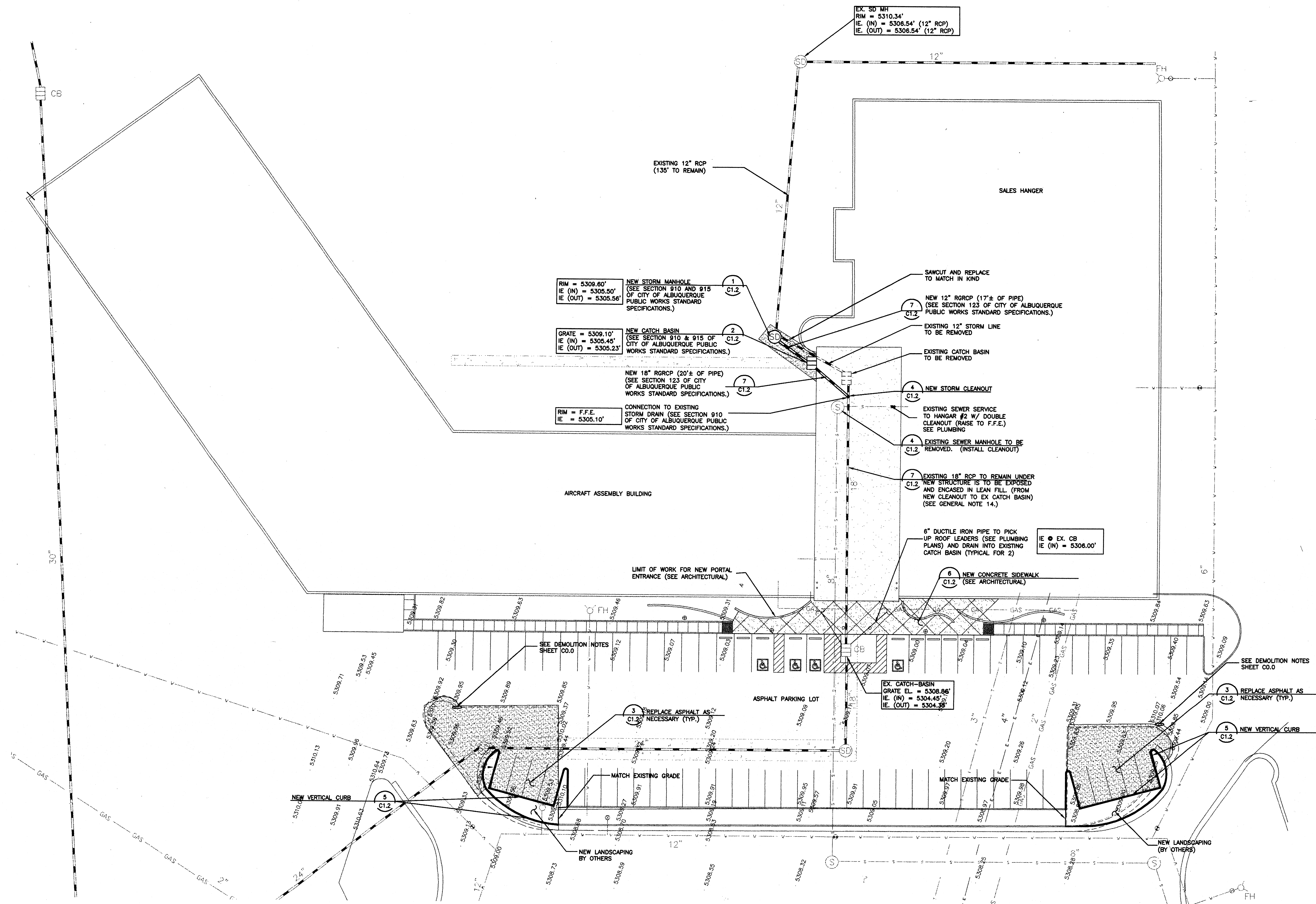


- * SEE SECTIONS 129 (DUCTILE IRON PIPE), 123 (REINFORCED CONCRETE PIPE), 204 (FILL CONSTRUCTION), 207 (LEAN FILL CONSTRUCTION), AND 701 (TRENCHING, EXCAVATION, AND BACKFILL) OF CITY OF ALBUQUERQUE PUBLIC WORKS STANDARD SPECIFICATIONS.

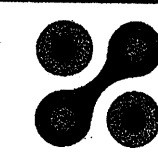
PIPE TRENCH DETAIL
SCALE: NTS



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HYDROLOGY SECTION



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0	12-FEB-2001	INITIAL ISSUE	MRB	DEM	JLA



**ECLIPSE
AVIATION**

2503 CLARK CARR LOOP SE, ALBUQUERQUE, NM 87106 (505) 245-7535

DRAWN BY: M. BALCIUS
 DEPT. CH. D. MICKANEN
 DEPT. APPR. D. MICKANEN
 COORD. CH. D. MICKANEN
 P.M. APPR. J. ATWOOD
 CLIENT APPR. N/A

LOCKWOOD GREENE

Consulting • Design • Construction

1620 W. Fountainhead Parkway Suite 350 Tempe, Arizona 85282
(480) 829-9000 • (480) 894-8656 Fax

SHEET TITLE

GRADING & DRAINAGE
 PLAN

JOB NAME

ECLIPSE AVIATION AT SUNPORT
 ALBUQUERQUE INTERNATIONAL SUNPORT
 ALBUQUERQUE, NM. 87106

JOB NO.

012849

DATE 12-FEB-2001

REV. NO. 0

SCALE

1"=20'

OWN. NO.

C1.0

ABBREVIATIONS:

AC	ACRE	ID	INSIDE DIAMETER
AGOR	AGGREGATE	IE	INVERT ELEVATION
AR	ARGON GAS	IPF	IRON PIN FOUND
AS	ASBESTOS CEMENT	IPS	IRON PIN SET
ASPH	ASPHALT		
BC	BACK OF CURB	L	LENGTH
BM	BENCH MARK	LP	LOW POINT
BTUM	BITUMINOUS	WH	MANHOLE
CCOMP	BITUMINOUS COATED CORRUGATED METAL PIPE	MAX	MAXIMUM
CE	CENTER LINE	MJ	MECHANICAL JOINT
BLDG	BUILDING	MIN	MINIMUM
BW	BASE OF WALL ELEVATION	MON	MONUMENT
CATV	CABLE TELEVISION (OVERHEAD)	NO	NATURAL GAS
CISP	CAST IRON SOIL PIPE	N	NITROGEN GAS
CB	CATCH BASIN	NONRCP	NON-REINFORCED CONCRETE PIPE
C	CATCH LINE	N/A	NOT APPLICABLE
CHW	CHILLED WATER	NIC	NOT IN CONTRACT
CWR	CHILLED WATER RETURN	NTS	NOT TO SCALE
CO	CHORD LENGTH	NO.	NUMBER
COL	CLEAN OUT	OC	ON CENTER
CA	COLUMN	OD	OUTSIDE DIAMETER
CA	COMPRESSED AIR	O ₂	OXYGEN GAS
CONC	CONCRETE	PVMT	PAVEMENT
CMU	CONCRETE MASONRY UNIT	PC	POINT OF CURVE
COND	CONDENSATE	PF	POINT OF FROG
CMP	CORRUGATED METAL PIPE	PI	POINT OF INTERSECTION
CY	CUBIC FEET	PT	POINT OF TANGENCY
C & G	CURB AND GUTTER	PJF	PREFORMED JOINT FILLER
		PVC	POLYVINYL CHLORIDE PIPE
DIA	DIAMETER	PVI	POINT OF VERTICAL INTERSECTION
DB	DITCH BOTTOM	PVT	POINT OF VERTICAL TANGENCY
DW	DOMESTIC WATER	PE	POLYETHYLENE
DWG	DRAWING	PSF	POUNDS PER SQUARE FEET
DI	DROP INLET	PSI	POUNDS PER SQUARE INCH
DIP	DUCTILE IRON PIPE	PS	POINT OF SWITCH
		PW	POTABLE WATER
EF	EACH FACE	PROP	PROPOSED
EW	EACH WAY	R	RADIUS
EOP	EDGE OF PAVEMENT	RR	RAILROAD
EO	ELECTRICAL CABLE (OVERHEAD)	RW	RAW WATER
EU	ELECTRICAL CABLE (UNDERGROUND)	RCP	REINFORCED CONCRETE PIPE
EL	ELECTRICAL MANHOLE	REINF	REINFORCEMENT
ELEV	ELEVATION	RGRCP	RUBBER-GASKET REINFORCED CONCRETE PIPE
EXIST	EXISTING	R/W	RIGHT OF WAY
EXP	EXPANSION	SS	SANITARY SEWER (GRAVITY)
FT	FEET	SHT	SHEET
FIN	FINISH	S	SLOPE
FF	FINISH FLOOR	SP	SPLASH PAD
FG	FINISH GRADE	STA	STATION
FI	FIRE HYDRANT	SD	STORM DRAIN SEWER
FW	FIRE WATER	SF	SQUARE FEET
FES	FLARED END SECTION	SO	SQUARE
FL	FLOOR		
FM	FORGE MAIN	T	TANGENT LENGTH
FP	FIRE PROTECTION	TEL	TELEPHONE CABLE (UNDERGROUND)
G	GRATE	TBM	TEMPORARY BENCH MARK
GAL	GALLON	TE	TOP ELEVATION
GPM	GALLONS PER MINUTE	TOC	TOP OF CURB ELEVATION
GS	GALVANIZED STEEL	TOW	TOP OF WALL ELEVATION
GV	GATE VALVE	TD	TRENCH DRAIN
GE	GUTTER ELEVATION	TYP	TYPICAL
HDCP	HANDICAP	TOP	TOP OF PAVEMENT ELEVATION
HDM	HEADWALL	TOS	TOP OF SLAB ELEVATION
HDPE	HIGH DENSITY POLYETHYLENE	T&B	TOP AND BOTTOM
HP	HIGH POINT	VC	VERTICAL CURVE
HW	HOT WATER	VCP	VITRIFIED CLAY PIPE
HWR	HOT WATER RETURN	WD	WIDE
H	HYDROGEN GAS		

GENERAL NOTES

- ALL EXISTING SITE INFORMATION: TOPOGRAPHY, BUILDING LOCATIONS, ROADS & PAVEMENT LOCATIONS AND SITE UTILITIES, WERE OBTAINED FROM A SURVEY PREPARED BY: SURV-TEK, INC., 5643 PARADISE BLVD. N.W., ALBUQUERQUE, NM 87114 CALLED TOPOGRAPHY/DRAINAGE SURVEY OF ECLIPSE AVIATION, ALBUQUERQUE INTERNATIONAL AIRPORT, BERNALILLO COUNTY, NM AND DATED FEBRUARY 8, 2001.
- THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATIONS AS TO THE TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THEREO. CONTRACTOR SHALL USE EXTREME CARE WHEN PERFORMING ANY DEMOLITION OR GRADING OPERATIONS IN THE PROXIMITY OF THESE EXISTING UTILITIES. ANY DAMAGE TO EXISTING UTILITIES WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. NOTIFY OWNER WHEN ANY UNIDENTIFIED UTILITIES ARE DISCOVERED.
- VISIT THE SITE AND MAKE ALL INVESTIGATIONS NECESSARY TO DETERMINING THE EXTENT OF THE WORK REQUIRED TO CONSTRUCT THE PROJECT.
- ANY DAMAGE TO EXISTING IMPROVEMENTS, SUCH AS, BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURB, ETC. CAUSED BY THE CONTRACTOR DURING CONSTRUCTION, SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- OBTAIN WRITTEN AUTHORIZATION FROM THE OWNER'S REPRESENTATIVE AND FROM THE UTILITY OWNERS PRIOR TO INTERRUPTING ANY EXISTING UTILITY (IE: WATER, SEWER, GAS, ELECTRICAL, OR TELEPHONE).
- CONSTRUCTION ACCESS TO BE AT DESIGNATED LOCATION ONLY.
- ALL WORK SHALL COMPLY WITH APPLICABLE STATE, FEDERAL AND LOCAL CODES. ALL NECESSARY LICENSES SHALL BE OBTAINED BY THE CONTRACTOR AT HIS EXPENSE.
- DEVIATIONS FROM THESE PLANS AND SPECIFICATIONS WITHOUT WRITTEN CONSENT OF THE ARCHITECT/ENGINEER MAY BE CAUSE FOR THE WORK TO BE UNACCEPTABLE TO THE ENGINEER.
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND ADHERING TO THE CITY OF ALBUQUERQUE DEPARTMENT OF PUBLIC WORKS STANDARD DETAILS AND SPECIFICATIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL MEASUREMENTS AND DIMENSIONS PRIOR TO ORDERING ANY MATERIALS OR CONDUCTING ANY WORK.
- ARCHITECT/ENGINEER SHALL BE NOTIFIED A MINIMUM OF FORTY-EIGHT (48) HOURS FOR SITE INSPECTIONS, TESTING VERIFICATIONS, AND FOR ANY OTHER PORTION OF THE WORK REQUIRING ENGINEERS SERVICES AT SITE.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF ALBUQUERQUE PUBLIC WORKS STANDARDS AND SPECIFICATIONS.
- AGGREGATE BASE COURSE MATERIAL SHALL BE IN ACCORDANCE WITH CITY OF ALBUQUERQUE PUBLIC WORKS STANDARD DETAILS AND SPECIFICATIONS AND HAVE A MINIMUM THICKNESS OF 8 INCHES COMPACTED TO 95% OF MAXIMUM DRY DENSITY AS INDICATED BY ASTM D1557, UNLESS OTHERWISE INDICATED ON THE PLANS.
- CONTRACTOR SHALL ENCASE ALL STORM SEWER WITHIN LIMITS OF NEW STRUCTURE (EXISTING OR NEW) IN LEAN FILL MATERIAL. LEAN FILL SHALL BE A MIXTURE OF PORTLAND CEMENT, AGGREGATE AND WATER HAVING A SLUMP OF 7:1 PER ASTM C-143 AND SHALL BE AS PER CITY OF ALBUQUERQUE PUBLIC WORKS STANDARD SPECIFICATIONS SECTION 207.

UTILITY NOTES

- ALL FIRE PROTECTION AND POTABLE WATER LINES SHALL HAVE A MINIMUM 3.0' OF COVER.
- SEE MECHANICAL AND PLUMBING DRAWINGS FOR CONTINUATION OF UTILITY LINES WITHIN 5' OF THE LIMITS OF THE BUILDING.
- SEE ELECTRICAL SITE PLAN FOR LOCATION OF LIGHT POLES, POWER POLES, POWER LINES, COMMUNICATION LINES AND DUCT BANKS.
- VERIFY LOCATIONS AND INVERT ELEVATIONS AT ALL PIPE CROSSINGS, INTERSECTIONS, PLUGS, BENDS, AND ENDS OF PIPE FOR ALL NEW UTILITY CONSTRUCTION AND ANY EXISTING LINES PRIOR TO START OF CONSTRUCTION. MAKE MODIFICATIONS, IF REQUIRED, TO ENSURE THE CLEARANCE BETWEEN ALL UTILITIES IS ADEQUATE, MEETS SPECIFICATIONS, AND TO AVOID CONFLICTS.
- THE TOP ELEVATION OF MANHOLES CONSTRUCTED IN PAVED AREAS SHALL MATCH FINISH GRADE. THE TOP ELEVATION OF MANHOLES CONSTRUCTED IN GRASS AREAS SHALL BE SIX (6") INCHES ABOVE FINISH GRADE.
- CONTRACTOR SHALL GROUT AROUND ALL PIPE ENTRANCES TO SEWER MANHOLES WITH NON-SHRINKING GROUT TO ASSURE WATER-TIGHT CONNECTION.
- CONTRACTOR SHALL COORDINATE INSPECTION WITH APPROPRIATE AUTHORITIES PRIOR TO COVERING TRENCHES AT INSTALLATION.
- CONSTRUCTION SHALL COMPLY WITH GOVERNING CODES AND REQUIREMENTS. CONTRACTOR SHALL CONDUCT ALL REQUIRED TESTS TO THE SATISFACTION OF THE UTILITY COMPANIES AND OWNERS INSPECTING AUTHORITIES.
- CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST STANDARDS OF OSHA DIRECTIVES, INCLUDING 29 CFR PART 1926 SUBPART P, OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURE. (SEE CITY OF ALBUQUERQUE PUBLIC WORKS STANDARD SPECIFICATIONS) CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING AND OTHER MEANS OF PROTECTION. THIS IS TO INCLUDE, BUT NOT LIMITED TO ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. CONTRACTOR IS RESPONSIBLE TO COMPLY WITH PERFORMANCE CRITERIA FOR OSHA.
- NEW DUCTILE IRON PIPE AND FITTINGS SHALL BE AS PER PROJECT SPEC SECTION 02555 AND IN ACCORDANCE WITH CITY OF ALBUQUERQUE PUBLIC WORKS SPECIFICATIONS SECTION 129.
- NEW DOMESTIC WATER SERVICE LINE SHALL BE IN ACCORDANCE WITH CITY OF ALBUQUERQUE PUBLIC WORKS SPECIFICATIONS AND DETAILS.
- NEW FIRE LINE INSTALLATION SHALL CONFORM TO THE APPLICABLE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS AND DETAILS AND SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE.
- BEDDING AND BACK FILL FOR SANITARY SEWER LATERALS SHALL CONFORM TO CITY OF ALBUQUERQUE PUBLIC WORKS SPECIFICATIONS AND DETAILS.
- ALL SEWER CONNECTIONS AND CLEAN OUT CONSTRUCTION SHALL CONFORM TO CITY OF ALBUQUERQUE PUBLIC WORKS SPECIFICATIONS AND DETAILS. EXISTING SEWER TAPS ARE SHOWN ON PLANS.
- THRUST BLOCKS FOR WATER LINES SHALL BE IN ACCORDANCE WITH CITY OF ALBUQUERQUE PUBLIC WORKS DETAIL 2320.
- NEW STORM SEWER PIPES, JOINTS, SPECIALS, AND MANHOLES SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF ALBUQUERQUE PUBLIC WORKS SPECIFICATIONS SECTIONS 910 AND 915 AND ALL ASSOCIATED DETAILS.
- FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF ALBUQUERQUE PUBLIC WORKS SPECIFICATION AND ALL ASSOCIATED DETAILS.
- SANITARY AND STORM SEWER MANHOLES SHALL CONFORM TO CITY OF ALBUQUERQUE PUBLIC WORKS SPECIFICATION SECTION 920 AND ALL ASSOCIATED DETAILS.
- NEW RGRCP STORM SEWER PIPE SHALL CONFORM WITH ASTM C-76 FOR CLASS III STRENGTH AND SHALL COMPLY WITH PROJECT SPEC. SECTION 02500 AND BE IN ACCORDANCE WITH CITY OF ALBUQUERQUE PUBLIC WORKS SPECIFICATION SECTIONS 123, 910, AND 915 AND ALL ASSOCIATED DETAILS.
- PORTLAND CEMENT CONCRETE SHALL BE 3,000 PSI TYPE II CEMENT CONCRETE AS PER PROJECT SPEC. 03300 AND CITY OF ALBUQUERQUE PUBLIC WORKS SPECIFICATION SECTION 101.

DEMOLITION NOTES

- DEMOLITION TO CONFORM TO CITY OF ALBUQUERQUE PUBLIC CODES.
- VISIT SITE AND DETERMINE EXTENT OF DEMOLITION REQUIRED.
- COORDINATE DEMOLITION WORK WITH WORK ALREADY UNDER CONTRACT AND SCHEDULE ACTIVITIES WITH CONTRACTOR. COORDINATE DEMOLITION TO ACCOMMODATE OWNER'S OPERATIONS AND MAINTAIN SITE SECURITY/SAFETY.
- DISPOSE OF UNSALVAGED DEMOLISHED MATERIALS OFF SITE IN A LEGAL MANNER.
- STOCKPILE SALVAGED DEMOLISHED MATERIALS ON SITE AS DIRECTED BY CONTRACTOR.
- LOCATE AND MARK ALL EXISTING UTILITY LINES TO BE ABANDONED AND OBTAIN CONTRACTOR APPROVAL PRIOR TO DEMOLITION.
- PLUG OPEN ENDS OF ABANDONED GRAVITY UTILITY LINES WITH CONCRETE. USE SUITABLE PLUG WITH CONCRETE THRUST BLOCKING (NPPA 24) FOR PRESSURE PIPE.
- DEMOLISH EXISTING UNDERGROUND UTILITIES INDICATED TO BE ABANDONED AS REQUIRED TO FACILITATE PROPOSED CONSTRUCTION.
- DO NOT DISTURB EXISTING UTILITIES TO REMAIN IN SERVICE. DO NOT REMOVE EXISTING UTILITIES TO BE DEMOLISHED UNTIL PROPOSED UTILITY CONSTRUCTION IS COMPLETED AND IN SERVICE. DEMOLISH OR ABANDON EXISTING UTILITIES AS INDICATED AFTER PROPOSED INSTALLATION IS TESTED AND ACCEPTED BY CONTRACTOR.
- SAW CUT EXISTING PAVEMENT AT LIMITS OF DEMOLITION OR REMOVE TO THE NEXT NEAREST JOINT BEYOND LIMITS OF DEMOLITION, IF CONCRETE. REPLACE PAVEMENT WHEN REMOVAL EXTENDS BEYOND LIMITS OF DEMOLITION.
- REPAIR OR REPLACE DAMAGED ITEMS NOT DESIGNATED TO BE DEMOLISHED, RESTORE TO ORIGINAL CONDITION AS DIRECTED BY CONTRACTOR AT NO ADDITIONAL COST TO OWNER.
- POLLUTION CONTROLS: USE WATER SPRINKLING AND OTHER SUITABLE METHODS AS NECESSARY TO LIMIT THE AMOUNT OF DUST AND DIRT RISING AND SCATTERING IN THE AIR, TO THE LOWEST LEVEL OF AIR POLLUTION PRACTICAL FOR THE CONDITION OF WORK.
- WORK TO BE DEMOLISHED BY CONTRACTOR IS SHOWN ON THE GRADING AND DRAINAGE PLAN AS GREY AND DASHED LINETYPE.

GRADING AND DRAINAGE NOTES

- HAUL PERMITS, WHEN REQUIRED, MUST BE OBTAINED PRIOR TO OR CONCURRENTLY WITH THE GRADING AND DRAINAGE PERMIT.
- EXCAVATION CONTRACTOR MUST GIVE LOCATION FOR WASTING EXCESS EXCAVATION AND A LETTER FROM THE OWNER GIVING PERMISSION FOR DUMPING PRIOR TO STARTING ON SITE CONSTRUCTION. IF EXCESS EXCAVATION EXCEEDS 100 CUBIC YARDS, THE DISPOSAL SITE WILL ALSO REQUIRE A GRADING AND DRAINAGE PERMIT.
- CONTACT MR. JIM HINDE WITH THE CITY OF ALBUQUERQUE SUNPORT AUTHORITY 48 HRS BEFORE ANY ON-SITE AND/OR OFF-SITE CONSTRUCTION BEGINS. (505) 244-7805.
- AN APPROVED GRADING AND DRAINAGE PLAN SHALL BE KEPT ON THE JOBSITE AT ALL TIMES. DEVIATION FROM THE PLAN MUST BE PRECEDED BY AN APPROVED PLAN REVISION.
- GRADING AND DRAINAGE PLAN APPROVAL INCLUDES THE CONSTRUCTION OF ALL SURFACE IMPROVEMENTS SHOWN ON THE APPROVED PLAN, INCLUDING, BUT NOT LIMITED TO, RETENTION AREAS, SEDIMENTATION BASINS, AND/OR OTHER DRAINAGE FACILITIES, DRAINAGE PATTERNS, WALLS, CURBS, ASPHALT PAVEMENT, AND BUILDING FLOOR ELEVATIONS.
- ALL DRAINAGE PROTECTIVE DEVICES SUCH AS SWALES, INTERCEPTOR DITCHES, PIPES, PROTECTIVE BERMS, BARRIER WALLS, CONCRETE CHANNELS, OR OTHER MEASURES DESIGNED TO PROTECT ADJACENT BUILDINGS OR PROPERTY FROM STORM RUNOFF MUST BE COMPLETED PRIOR TO BUILDING CONSTRUCTION.
- DAMAGED AND/OR DISPLACED CONCRETE CURB, GUTTER, SIDEWALK, OR DRIVEWAY SLAB THAT IS WITHIN THE RIGHT-OF-WAY SHALL BE REPAIRED OR REPLACED, AS NOTED BY CITY INSPECTORS, BEFORE FINAL ACCEPTANCE OF THE WORK.
- CONSTRUCTION WITHIN THE RIGHT-OF-WAY SHALL CONFORM TO THE LATEST APPLICABLE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- COMPACTION SHALL COMPLY WITH CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS SECTION 204.
- OBSTRUCTIONS TO PROPOSED IMPROVEMENTS IN THE RIGHT-OF-WAY SHALL BE REMOVED OR RELOCATED BEFORE BEGINNING CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.
- CONTRACTOR SHALL MAKE ADJUSTMENTS TO PAVING AND GRADING ELEVATIONS AS NECESSARY TO INSURE A SITE FREE OF DRAINAGE PROBLEMS.
- CONTRACTOR SHALL SAWCUT EXISTING PAVEMENT FOR NEW WORK. NEW PAVEMENT SHALL GRADE TO DRAIN AND MATCH EXISTING PAVEMENT ELEVATIONS WHERE NEW MEETS EXISTING.

DRAINAGE SCOPE:

THE SCOPE OF WORK INCLUDED IN THE DESIGN IS THE RELOCATION OF A CATCH BASIN, THE ADDITION OF A 17 FOOT LENGTH OF 12" RGRCP, THE ADDITION OF A 20 FOOT LENGTH OF 18" RGRCP, INSTALLING A NEW STORM DRAIN MANHOLE, AND INSTALLING A NEW CLEANOUT WHERE THE NEW STORM DRAIN TIES INTO THE EXISTING STORM DRAIN SYSTEM.

DUE TO THE NEW SCOPE OF WORK NOT IMPACTING OR AFFECTING THE EXISTING SITE DRAINAGE, NO HYDRAULIC CALCULATIONS ARE REQUIRED.

CITY LEGEND

EXISTING	PROPOSED

SECTION AND DETAIL IDENTIFICATION:

SECTION NUMBER OR DETAIL LETTER
SECTION OR DETAIL
 SCALE:

DWG WHERE SECTION OR DETAIL IS DRAWN

- * NOT ALL SYMBOLS SHOWN ARE APPLICABLE TO THIS PROJECT.
- ** SEE ABBREVIATIONS LISTING FOR UTILITY IDENTIFICATION.

PROJECT INFORMATION

ADDRESS: 2503 CLARK CARR LOOP SE
 ALBUQUERQUE, NEW MEXICO 87106
 ZONING CLASSIFICATION: SU-1
 BUILDING CODE: UBC - 1997 / ALBUQUERQUE UAC
 CONSTRUCTION TYPE: V-N
 SITE AREA: 348,562 S.F. OR 7.88 ACRES±
 TOTAL CROSS-BLDG. AREA: 89,981 S.F.
 OCCUPANCY CLASSIFICATION: F-1, B

OWNER/DEVELOPER:
 ECLIPSE AVIATION, INC.
 ECLIPSE AVIATION
 2503 CLARK CARR LOOP SE
 ALBUQUERQUE, NEW MEXICO 87106
 ATTN: DAVID E. MICKANEN, PE
 505-245-7555
 FAX 505-245-7888

ENGINEER/ARCHITECT:
 LOCKWOOD GREENE
 1620 W. FOUNTAINHEAD PARKWAY
 SUITE 350
 TEMPE, ARIZONA 85282
 ATTN: DAVID E. MICKANEN, PE
 480-829-9000
 FAX 480-894-8656

CIVIL SHEET INDEX

LEGEND, SYMBOLS, AND NOTES
 GRADING AND DRAINAGE PLAN
 DETAILS

012849

ECLIPSE AVIATION

2503 CLARK CARR LOOP SE, ALBUQUERQUE, NM 87106 (505) 245-7555

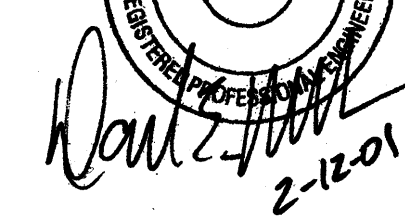
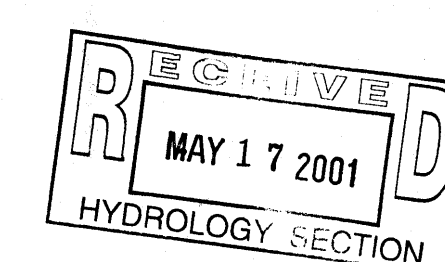
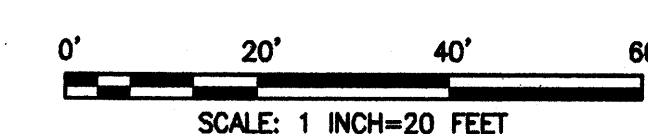
DRAWN BY: M. BALCIUS
 DEPT. CH: D. MICKANEN
 DEPT. APPR: D. MICKANEN
 CHECKED BY: D. MICKANEN
 DATE APPR: J. ATWOOD
 CLIENT APPR: N/A

LOCKWOOD GREENE
 Consulting • Design • Construction
 1620 W. Fountainhead Parkway Suite 350 Tempe, Arizona 85282
 (480) 829-9000 • (480) 894-8656 Fax

SHEET TITLE
 LEGEND, SYMBOLS, AND NOTES

JOB NAME
ECLIPSE AVIATION AT SUNPORT
 ALBUQUERQUE INTERNATIONAL SUNPORT
 ALBUQUERQUE, NM. 87106

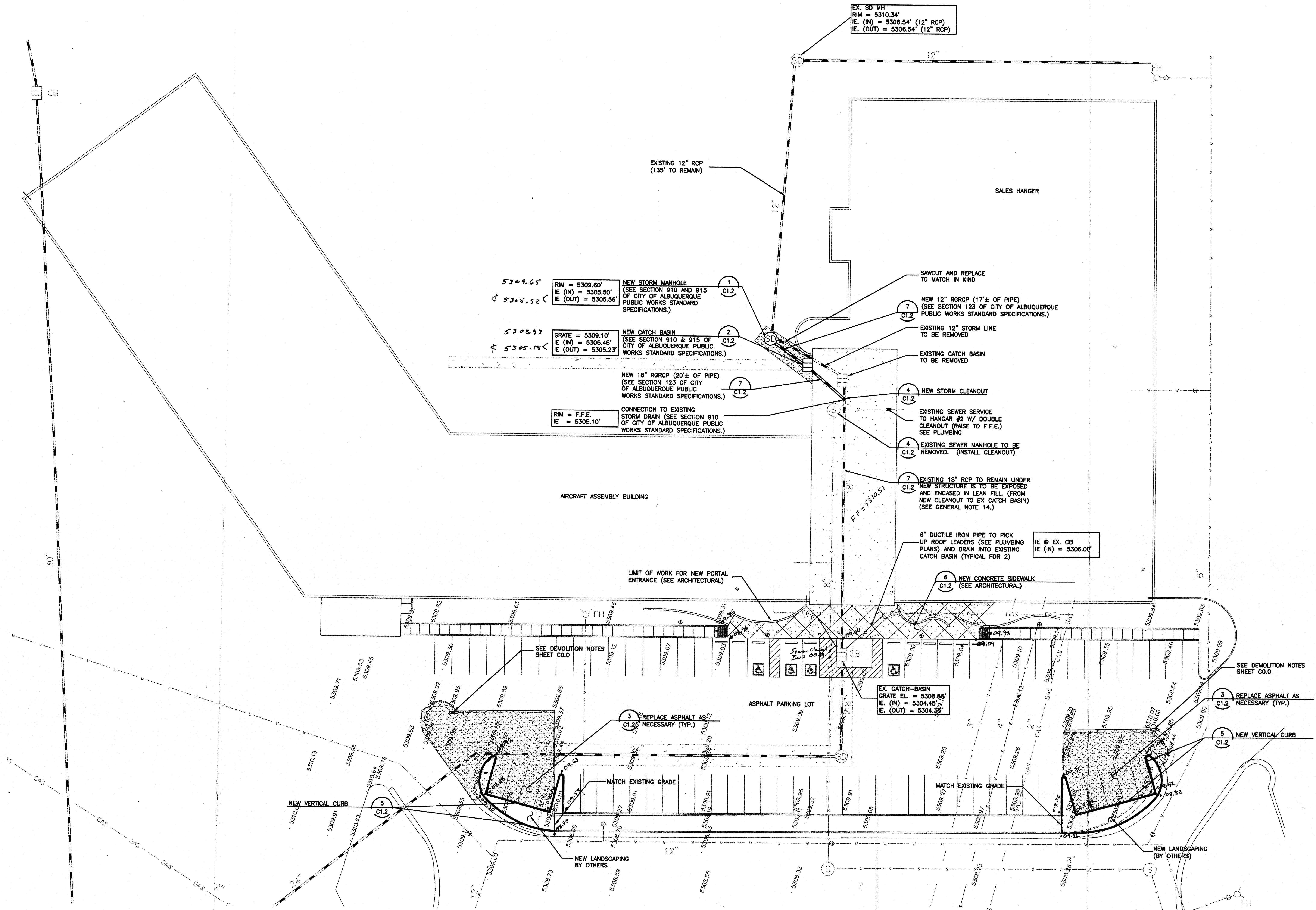
JOB NO.: 012849
 SCALE: AS NOTED
 DATE 12-FEB-2001
 REV. NO.: 0
 DWG. NO.: CO.0



 **ECLIPSE**
AVIATION
2563 CLARK CARR LOOP SE, ALBUQUERQUE, NM 87106 (505) 245-7505

LOCKWOOD GREENE
Consulting • Design • Construction
1620 W. Fountainhead Parkway Suite 350 Tempe, Arizona 85282
(480) 879-9000 • (480) 894-8656 Fax

JOB NAME ECLIPSE AVIATION AT SUNPORT ALBUQUERQUE INTERNATIONAL SUNPORT ALBUQUERQUE, NM. 87106	JOB NO. 012849	DATE 12-FEB-2001
		REV. NO. 0
	SCALE 1"=20'	DWG. NO. C10



NO.	DATE	REVISION	BY	CHK	APPR.
0	12-FEB-2001	INITIAL ISSUE	MRB	DEM	JLA

ECLIPSE AVIATION
2763 CLARK CARR LOOP SE, ALBUQUERQUE, NM 87106 (505) 245-7505

DRAWN BY: M. BALCIUS
DEPT. CH. D. MICKANEN
DEPT. APPR. D. MICKANEN
COORD. CH. D. MICKANEN
P.L. APPR. J. ATWOOD
CLIENT APPR. N/A

LOCKWOOD GREENE
Consulting • Design • Construction
1620 W. Fountainhead Parkway Suite 350 Tempe, Arizona 85282
(480) 829-9000 • (480) 894-8656 Fax

SHEET TITLE: GRADING & DRAINAGE PLAN

JOB NAME: ECLIPSE AVIATION AT SUNPORT
ALBUQUERQUE INTERNATIONAL SUPPORT
ALBUQUERQUE, NM. 87106
JOB NO.: 012849
DATE: 12-FEB-2001
REV. NO.: 0
SCALE: 1"=20'
C1.0