

ITEM NO. 6A

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NOTICE TO CONTRACTORS AND BIDDERS

THESE CONSTRUCTION PLANS RELY UPON THE SPECIAL PROVISIONS AND THE SPECIFICATIONS TO PROVIDE FOR A COMPLETE DESCRIPTION OF THE WORK AND CONSTRUCTION REQUIREMENTS. THE PLANS SHALL ONLY BE USED IN COMBINATION WITH ALL CONTRACT DOCUMENTS.

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No.	Issue/Description	Sheets Changed	Date	By

No. Issue/Description Sheets Changed Date By

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TOTAL SHEETS = 67

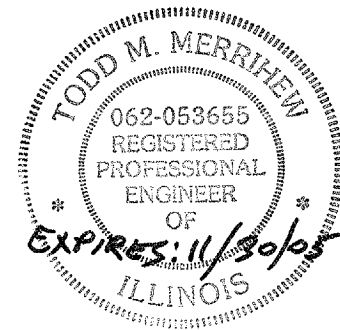
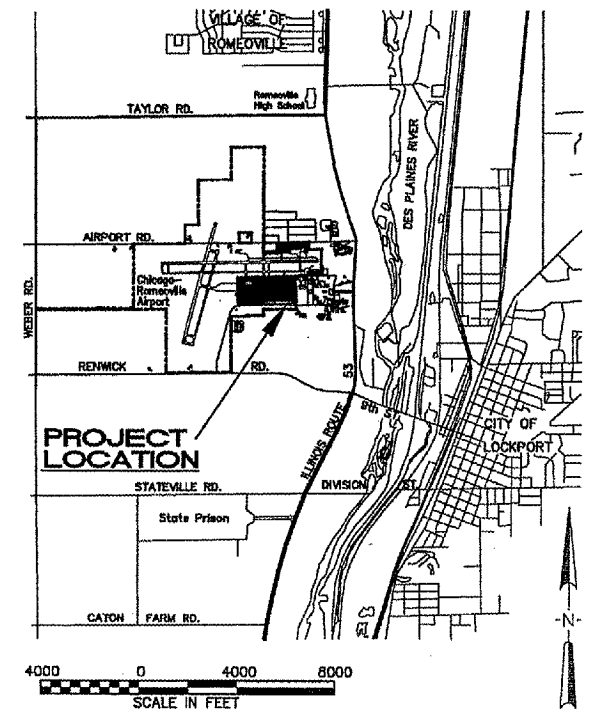
CONSTRUCTION PLANS

EXTEND TAXIWAY E; CONSTRUCT
GA APRON, AVGAS FUELING
APRON AND AUTO PARK 100

JOLIET REGIONAL PORT DISTRICT
CHICAGO-ROMEDEVILLE AIRPORT (LOT)
ROMEDEVILLE, WILL COUNTY, ILLINOIS

AIP PROJECT NO. 3-17-0140-B38
IDA PROJECT NO. LOT-3441

VICINITY MAP



SHEET NO. 1 OF 67

HANSON
HANSON PROFESSIONAL SERVICES INC.
815 Commerce Drive, Suite
200 Oak Brook, Illinois 60523
Telephone: 630.990.3800 Fax:
630.990.3801

Seal
(Sheets 1 thru 42 AND 53 THRU 60)
Date of Plans
Todd M. Merrifew
Todd M. Merrifew, P.E. MARCH 25, 2005

Seal
For Electrical Design
(Sheets 43 Thru 52)
Date of Plans
Kevin N. Lightfoot
Kevin N. Lightfoot, P.E. MARCH 25, 2005

Chicago-Romeoville Airport
JOLIET REGIONAL PORT DISTRICT
1 Hangar Road
Romeoville, Illinois
Telephone: 815.838.9497
Fax: 815.838.9524

SUMMARY OF QUANTITIES

BASE BID

Item No.	Description	Unit	Federal/State/Local Quantity	State/Local Quantity	Local Only Quantity	Total Quantity
AR106512	Type A Area Lgt Pole W/ 2 Fixtures	Each	0.0	1.0	0.0	1.0
AR108608	3/C #8 600 V UG Cable	Linear Foot	0.0	95.0	0.0	95.0
AR109400	Power Distribution System	Lump Sum	1.0	0.0	0.0	1.0
AR110212	2" Steel Duct, Direct Bury	Linear Foot	0.0	95.0	0.0	95.0
AR110502	2-Way Concrete Encased Duct	Linear Foot	111.0	0.0	0.0	111.0
AR110504	4-Way Concrete Encased Duct	Linear Foot	82.0	0.0	0.0	82.0
AR110506	6-Way Concrete Encased Duct	Linear Foot	56.0	0.0	0.0	56.0
AR110610	Electrical Handhole	Each	1.0	0.0	0.0	1.0
AR150510	Engineer's Field Office	Lump Sum	1.0	0.0	0.0	1.0
AR152410	Unclassified Excavation	Cubic Yard	22,410.0	3,170.0	0.0	25,580.0
AR152442	Offsite Borrow Excavation	Cubic Yard	11,610.0	3,780.0	0.0	15,390.0
AR152540	Soil Stabilization Fabric	Square Yard	2,370.0	0.0	0.0	2,370.0
AR156510	Silt Fence	Linear Foot	723.0	135.0	0.0	858.0
AR156513	Separation Fabric	Square Yard	2,370.0	0.0	0.0	2,370.0
AR162900	Remove Class E Fence	Linear Foot	0.00	62.0	0.0	62.0
AR201610	Bituminous Base Course	Ton	2,640.0	1,020.0	0.0	3,660.0
AR201630	Bituminous Base Test Section	Each	1.0	0.0	0.0	1.0
AR209606	Crushed Agg. Base Course - 6"	Square Yard	0.0	1,238.0	0.0	1,238.0
AR209610	Crushed Agg. Base Course - 10"	Square Yard	0.0	2,547.0	0.0	2,547.0
AR209612	Crushed Agg. Base Course - 12"	Square Yard	23,200.0	4,761.0	0.0	27,961.0
AR401610	Bituminous Surface Course	Ton	2,640.0	895.0	0.0	3,535.0
AR401630	Bituminous Surface Test Section	Each	1.0	0.0	0.0	1.0
AR401650	Bituminous Pavement Milling	Square Yard	150.0	277.0	0.0	427.0
AR401665	Bituminous Pavement Sawing	Linear Foot	294.0	663.0	0.0	957.0
AR401900	Bituminous Pavement Removal	Square Yard	1,431.0	1,542.0	0.0	2,973.0
AR401910	Remove and Replace Bit. Pavement	Square Yard	0.0	134.0	0.0	134.0
AR501506	6" PCC Pavement	Square Yard	0.0	1,211.0	0.0	1,211.0
AR501530	PCC Test Batch	Each	0.0	1.0	0.0	1.0
AR510510	Tie Down	Each	33.0	0.0	0.0	33.0
AR510515	Ground Rod	Each	6.0	4.0	0.0	10.0
AR602510	Bituminous Prime Coat	Gallon	9,280.0	2,923.0	0.0	12,203.0
AR603510	Bituminous Tack Coat	Gallon	3,432.0	1,554.0	0.0	4,986.0
AR620530	Pavement Marking - Epoxy	Square Foot	5,503.0	1,789.0	0.0	7,292.0
AR620900	Pavement Marking Removal	Square Foot	430.0	94.0	0.0	524.0
AR701430	30' RCP, Class III	Linear Foot	278.0	0.0	0.0	278.0
AR701512	12' RCP, Class IV	Linear Foot	86.5	560.0	0.0	646.5
AR701515	15' RCP, Class IV	Linear Foot	417.0	0.0	0.0	417.0
AR701518	18' RCP, Class IV	Linear Foot	46.0	179.0	0.0	225.0
AR701521	21' RCP, Class IV	Linear Foot	454.0	0.0	0.0	454.0
AR701524	24' RCP, Class IV	Linear Foot	343.5	0.0	0.0	343.5
AR701719	RCEP Span 38 Rise 24	Linear Foot	54.0	0.0	0.0	54.0
AR701900	Remove Pipe	Linear Foot	88.5	34.0	0.0	122.5
AR705412	Porous Backfill No. 2	Cubic Yard	464.0	65.0	0.0	529.0
AR705506	6" Perforated Underdrain	Linear Foot	5,544.0	837.0	0.0	6,381.0
AR705630	Underdrain Inspection Hole	Each	3.0	0.0	0.0	3.0
AR705640	Underdrain Cleanout	Each	12.0	4.0	0.0	16.0
AR705904	Remove Underdrain Cleanout	Each	0.0	1.0	0.0	1.0
AR751411	Inlet - Type A	Each	3.0	2.0	0.0	5.0
AR751540	Manhole 4'	Each	2.0	3.0	0.0	5.0
AR751550	Manhole 5'	Each	2.0	0.0	0.0	2.0
AR751560	Manhole 6'	Each	3.0	1.0	0.0	4.0
AR751567	Manhole 7'	Each	1.0	1.0	0.0	2.0
AR751903	Remove Manhole	Each	0.0	1.0	0.0	1.0
AR751943	Adjust Manhole	Each	0.0	2.0	0.0	2.0
AR752412	Precast Reinforced Conc. FES 12"	Each	1.0	3.0	0.0	4.0
AR752421	Precast Reinforced Conc. FES 21"	Each	1.0	0.0	0.0	1.0
AR752430	Precast Reinforced Conc. FES 30"	Each	1.0	0.0	0.0	1.0

BASE BID (CONTINUED)

Item No.	Description	Unit	Federal/State/Local Quantity	State/Local Quantity	Local Only Quantity	Total Quantity
AR752512	Grating for Conc. FES 12'	Each	1.0	3.0	0.0	4.0
AR752521	Grating for Conc. FES 21'	Each	1.0	0.0	0.0	1.0
AR752530	Grating for Conc. FES 30'	Each	1.0	0.0	0.0	1.0
AR752730	P. R. Conc. FES Eq. Round Size 30"	Each	2.0	0.0	0.0	2.0
AR752900	Remove End Section	Each	5.0	0.0	0.0	5.0
AR754410	Comb Concrete Curb and Gutter	Linear Foot	0.0	188.0	0.0	188.0
AR800914	90-Foot High Mast System w/ 3 Fixt.	Each	2.0	0.0	0.0	2.0
AR800916	Pole No. 1 Cables in Unit Duct	Linear Foot	205.0	0.0	0.0	205.0
AR800917	Pole No. 2 Cables in Unit Duct	Linear Foot	670.0	0.0	0.0	670.0
AR800918	Pole No. 3 Cables in Unit Duct	Linear Foot	0.0	370.0	0.0	370.0
AR800925	CA-3 Aggregate Backfill	Cubic Yard	263.0	0.0	0.0	263.0
AR800926	CA-6 Aggregate Backfill	Cubic Yard	1,530.0	0.0	0.0	1,530.0
AR800928	Oil/Water Separator Manhole	Each	0.0	0.0	1.0	1.0
AR800937	Conservation Cover	Acre	14	0.0	0.0	14
AR800990	Power Cables in Duct	Linear Foot	168.0	0.0	0.0	168.0
AR800991	PCC Utility Trench	Linear Foot	0.0	105.9	0.0	105.9
AR800992	Grating for Conc. FES Eq. Rd. Size 30"	Each	2.0	0.0	0.0	2.0
AR800993	Bollard	Each	0.0	2.0	0.0	2.0
AR800994	Unclassified Diapoeal Haul On-Site	Cubic Yard	8,400.0	2,370.0	0.0	10,770.0
AR901510	Seeding	Acre	6.1	0.5	0.0	6.6
AR905510	Topsolling (From On Site)	Cubic Yard	3,090.0	270.0	0.0	3,360.0
AR908510	Mulching	Acre	6.1	0.5	0.0	6.6

ADDITIVE NO. 1

Item No.	Description	Unit	Federal/State/Local Quantity	State/Local Quantity	Local Only Quantity	Total Quantity
AS162320	Class E Gate 20' - Vinyl	Each	1.0	1.0	0.0	2.0
AS162406	Class E Fence, Vinyl - 6'	Linear Foot	3,688.0	128.0	0.0	3,816.0
AS162720	Electric Gate 20'	Each	1.0	0.0	0.0	1.0
AS162724	Electric Gate 24'	Each	1.0	0.0	0.0	1.0
AS800922	Gate Cables in Unit Duct	Linear Foot	697.0	0.0	0.0	697.0
AS800993	Bollard	Each	8.0	0.0	0.0	8.0
AS800995	Class E Gate 5' - Vinyl	Each	3.0	1.0	0.0	4.0



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JOLIET REGIONAL PORT DISTRICT

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EXTEND TAXIWAY E; CONSTRUCT
GA APRON, AVGAS FUELING APRON
AND AUTO PARK 100

AIP PROJECT NO. 3-17-0140-B38
IDA PROJECT NO. LOT-3441

No.	Drawing Issue Description	Date	By

Date
MARCH 25, 2005
Sheet Title

SUMMARY OF QUANTITIES

840-0408041
Project Number
LDH 03/11/05
LDH/TMM 03/18/05
RMH 03/18/05
LDH TMM

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PROJECT IS LOCATED IN NE 1/4 OF SECTION 16, LOCKPORT TOWNSHIP, WILL COUNTY



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JOLIET REGIONAL PORT DISTRICT

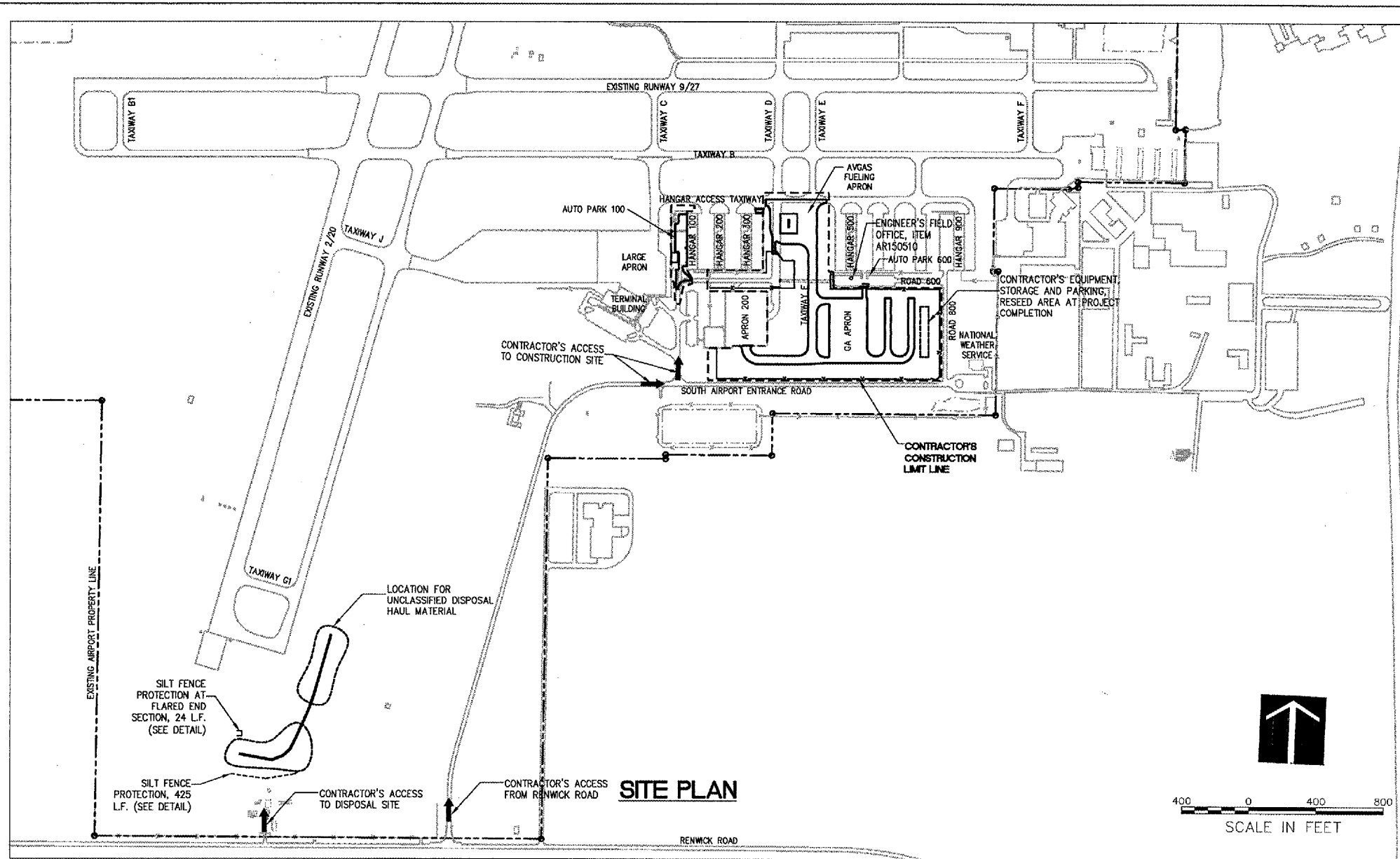
1 Hangar Road Romeoville, Illinois 60446 Telephone: 815.838.9497 Fax: 815.838.9524

EXTEND TAXIWAY E: CONSTRUCT GA APRON, AVGAS FUELING APRON AND AUTO PARK 100

AIP PROJECT NO. 3-17-0140-B38 IDA PROJECT NO. LOT-3441

NOTES:

- 1. WORK MUST BE CONTROLLED AND STAGED. SEE CONSTRUCTION STAGING PLAN. 2. MAXIMUM HEIGHT OF CONTRACTOR'S EQUIPMENT IS 30 FEET EXCEPT BY PRIOR APPROVAL OF THE ENGINEER (SEE SPECIAL PROVISIONS). 3. PROPOSED EXCESS TOPSOIL STOCKPILE TO BE CONSTRUCTED USING ONLY EXCESS TOPSOIL MATERIAL. UPON COMPLETION OF THE EARTH EXCAVATION, THE STOCKPILE IS TO BE SHAPED WITH NO ABRUPT GRADE CHANGES, SUITABLE TO THE RESIDENT ENGINEER. 4. FOR BARRICADE AND LATHING AND WARNING TAPE LOCATIONS, SEE CONSTRUCTION STAGING PLAN. 5. FOR ALLOWABLE CONSTRUCTION LIMITS DURING INDIVIDUAL STAGES, SEE CONSTRUCTION STAGING PLAN. 6. TRAFFIC TO BE MAINTAINED ON ALL AIRPORT ROADWAYS AT ALL TIMES EXCEPT FOR PORTIONS OF ROADWAY WITHIN THE CONTRACTOR'S LIMIT LINE. 7. TAXIWAY, APRON AND ROAD CLOSURES ARE TO BE COMPLETED IN ACCORDANCE WITH THE CONSTRUCTION STAGING PLAN.



SITE PLAN

GENERAL NOTES

PROJECT DESCRIPTION

EXTEND TAXIWAY E; CONSTRUCT GA APRON, AVGAS FUELING APRON AND AUTO PARK 100 INCLUDING, AMONG OTHER INCIDENTAL WORK, THE FOLLOWING ITEMS:

- EXCAVATION, INCLUDING TOPSOIL REMOVAL, SOIL STABILIZATION AND EMBANKMENT CONSTRUCTION. - CONSTRUCTION OF NEW AND EXTENSION OF EXISTING STORM SEWER PIPE SYSTEM AND UNDERDRAIN PIPE SYSTEM. - CONSTRUCTION AND MARKING OF TAXIWAY E EXTENSION, GA APRON, AND AUTO PARK 100; BITUMINOUS PAVEMENT. - CONSTRUCTION AND MARKING OF AVGAS FUELING APRON, BITUMINOUS AND P.C.C. PAVEMENT. - INSTALLATION OF HIGH-MAST AND AREA LIGHTING, INCLUDING A NEW SECONDARY POWER DISTRIBUTION PANEL. - TOPSOILING, SEEDING AND MULCHING. - INSTALLATION OF PERIMETER FENCING AND ELECTRIC SLIDING GATES - ADDITIVE NO. 1.

COORDINATION WITH OTHER WORK

THIS PROJECT MAY BE UNDER CONSTRUCTION SIMULTANEOUSLY WITH OTHER AIRPORT IMPROVEMENT PROJECTS. COORDINATION WITH THESE OTHER PROJECTS WILL BE REQUIRED.

PROTECTION OF EXISTING AIRPORT FACILITIES

THE CONTRACTOR IS TO BE RESPONSIBLE FOR THE PROTECTION OF EXISTING UNDERGROUND AND OVERHEAD UTILITIES AND LIGHTING EQUIPMENT; DRIVEWAY AND ROAD PAVEMENT AND SHOULDERS; RUNWAY, TAXIWAY AND APRON PAVEMENTS AND SHOULDERS; RUNWAY, TAXIWAY AND AIRPORT LIGHTING EQUIPMENT; AND SEEDED AND TURFED AREAS THAT ARE UTILIZED IN OR AFFECTED BY THE CONTRACTOR'S ACTIVITIES. ITEMS DAMAGED BY THE CONTRACTOR ARE TO BE REPAIRED AT CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF AIRPORT DIRECTOR AND THE RESIDENT ENGINEER.

IN ADDITION WHEN CONDITIONS DICTATE OR AS DETERMINED BY THE AIRPORT DIRECTOR OR THE RESIDENT ENGINEER, THE CONTRACTOR SHALL BE REQUIRED TO USE A PICK-UP TYPE SWEEPER IN ALL ACTIVE CONSTRUCTION AIRFIELD PAVEMENT AREAS. THE CONTRACTOR WILL BE REQUIRED TO HAVE A SWEEPER AVAILABLE FOR USE AT ALL TIMES. THE COST OF SWEEPING SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

CONTRACTOR'S ACCESS AND TEMPORARY FACILITIES

CONTRACTOR'S ACCESS TO THE PROJECT WHEN ON AIRPORT PROPERTY IS SHOWN ON THIS SHEET. CONTRACTOR'S ACCESS TO THE AIRPORT ITSELF IS TO BE PROVIDED BY PUBLIC RIGHTS-OF-WAY. THE CONTRACTOR IS TO SECURE ALL NECESSARY PERMITS FOR THE USE OF ANY PUBLIC RIGHTS-OF-WAY AND IS TO MAINTAIN TRAFFIC ON THESE PUBLIC ROADS AT ALL TIMES, WITH THE COSTS OF PERMITTING, CLEANING AND REPAIRING OF PAVEMENT DAMAGED BY CONTRACTOR'S ACTIVITIES INCIDENTAL TO THE CONTRACT. USE OF AND REPAIRS TO ANY PUBLIC FACILITIES ARE TO BE COMPLETED TO THE SATISFACTION OF THE FACILITY'S OWNER.

THE CONTRACTOR IS TO PROVIDE TEMPORARY CONSTRUCTION ROADS WITHIN THE CONSTRUCTION LIMIT LINES AS MAY BE REQUIRED BY HIS ACTIVITIES. HEAVY VEHICLES SHALL NOT CROSS EXISTING OR NEW PAVEMENT SURFACES EXCEPT AS APPROVED BY THE AIRPORT DIRECTOR AND THE RESIDENT ENGINEER. ANY DAMAGE TO PAVEMENTS THAT MAY OCCUR BY THE CONTRACTOR'S ACTIVITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE AIRPORT DIRECTOR AND THE RESIDENT ENGINEER.

THE CONTRACTOR IS TO PROVIDE AN EQUIPMENT, STORAGE AND PARKING AREA AT THE LOCATIONS SHOWN ON THIS SHEET. ACCESS TO THE ENGINEER'S FIELD OFFICE SHALL ALSO BE PROVIDED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE ACCESS ROADS AND THE STORAGE AREA DURING CONSTRUCTION AND TO RESTORE THE AREAS AT PROJECT COMPLETION TO CONDITIONS SUITABLE TO THE AIRPORT DIRECTOR AND THE RESIDENT ENGINEER. AT THE AIRPORT DIRECTOR'S DISCRETION, THE TEMPORARY FACILITIES MAY REMAIN, BUT THEY MUST BE LEFT IN CONDITIONS SUITABLE TO THE AIRPORT DIRECTOR. THE COST OF PROVIDING, MAINTAINING AND RESTORING THE TEMPORARY FACILITIES IS INCIDENTAL TO THE CONTRACT.

RESPONSIBILITY FOR EXISTING UTILITIES

THE LOCATION, SIZE AND/OR TYPE OF MATERIAL OF EXISTING UNDERGROUND OR OVERHEAD UTILITIES AS MAY BE INDICATED ON THESE CONSTRUCTION PLANS IS NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE. NEITHER THE OWNER NOR THE PROJECT ENGINEER HAVE INDEPENDENTLY VERIFIED THIS INFORMATION AND NEITHER ASSUMES ANY RESPONSIBILITY WHATSOEVER IN RESPECT TO THE ACCURACY, SUFFICIENCY OR COMPLETENESS OF THE INFORMATION AND GIVE NO EXPRESSED OR IMPLIED GUARANTEE THAT ANY CONDITIONS INDICATED ARE REPRESENTATIVE OF ACTUAL CONDITIONS TO BE ENCOUNTERED.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES AND AGENCIES OF HIS CONSTRUCTION PLANS AND SHALL OBTAIN FROM EACH PARTY DETAILED INFORMATION AND ASSISTANCE RELATIVE TO THE LOCATION OF ALL UTILITIES AND THE WORKING SCHEDULE OF ANY REMOVALS OR ADJUSTMENTS REQUIRED OF THE UTILITY. THE CONTRACTOR SHALL CONTACT J.U.L.I.E. (PHONE 800-892-0123) TO ASSIST IN THE ABOVE.

THE CONTRACTOR SHALL PROTECT ANY FACILITIES TO THE SATISFACTION OF THE UTILITY OR OWNING-AGENCY WITH THE COST OF ANY REQUIRED PROTECTION TO BE INCIDENTAL TO THE CONTRACT. IN THE EVENT A UTILITY LINE OR SERVICE IS UNEXPECTEDLY ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE RESIDENT ENGINEER AND THE UTILITY COMPANY OR AGENCY OF JURISDICTION. ANY SUCH UTILITIES DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED TO SERVICE AT ONCE.

EXISTING BENCHMARK

BENCHMARK IS AS FOLLOWS:

U.S.G.S PLUG NUMBER S140 RESET 1971 ELEVATION 615.340 LOCATED 51 FEET SOUTH OF CENTERLINE LEWIS UNIVERSITY ENTRANCE ROAD AND 34 FEET WEST OF CENTERLINE ILLINOIS ROUTE 53

OTHER TEMPORARY BENCHMARKS ARE LOCATED ON-FIELD BUT THEIR USE MUST BE FIELD-VERIFIED.

Table with 4 columns: No., Drawing Issue Description, Date, By. It contains a grid for tracking drawing issues.

Date MARCH 25, 2005 Sheet Title

SITE PLAN AND GENERAL NOTES

840-0408041 Project Number LDH 03/11/05 Layout By LDH/TMM 03/11/05 Designed By RMH 03/15/05 Reviewed By LDH TMM --- Drawn By

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CONSTRUCTION AND SAFETY NOTES

SEQUENCE OF CONSTRUCTION

TO MINIMIZE DISRUPTIONS TO AIRPORT OPERATIONS, CONSTRUCTION OPERATIONS MUST BE CONTROLLED THROUGHOUT THE PROJECT'S DURATION AND WORK MUST BE COMPLETED EXPEDITIOUSLY.

LATHING AND WARNING TAPE

THE PROJECT WILL REQUIRE THE PLACEMENT OF LATHING AND WARNING TAPE TO DELINEATE THE CONSTRUCTION AREA. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE, PLACE AND MAINTAIN LATHING AND WARNING TAPE AS SHOWN ON THE CONSTRUCTION STAGING PLAN, SHEETS 4 AND 5, AND DETAIL A, THIS SHEET, AND AS DIRECTED BY THE RESIDENT ENGINEER AND THE AIRPORT DIRECTOR.

TEMPORARY BARRICADES ON AIRFIELD

THE PROJECT WILL REQUIRE THE PLACEMENT OF BARRICADES TO DELINEATE PORTIONS OF THE CONSTRUCTION AREA. THE PROJECT WILL ALSO REQUIRE THE OCCASIONAL, TEMPORARY CLOSING OF PORTIONS OF AN APRON AND SEGMENTS OF ACTIVE TAXIWAYS.

OPEN TRENCHES, EXCAVATIONS AND STOCKPILED MATERIAL AT THE CONSTRUCTION SITE SHALL ALSO BE DELINEATED WITH THE USE OF BARRICADES DURING HOURS OF RESTRICTED VISIBILITY AND/OR DARKNESS.

IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO FURNISH, PLACE AND MAINTAIN BARRICADES AS SHOWN IN THE STAGING PLAN, AND DETAIL B, THIS SHEET, AND AS DIRECTED BY THE RESIDENT ENGINEER AND AIRPORT DIRECTOR. THE COST OF THESE ITEMS, AND THEIR MAINTENANCE, IS TO BE INCIDENTAL TO THE CONTRACT.

VEHICULAR TRAFFIC CONTROL

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE AND PLACE ROAD WARNING SIGNS AND BARRICADES ON THE EXISTING ROADWAYS PRIOR TO THE START OF CONSTRUCTION IN THE VICINITY. THIS TRAFFIC CONTROL SHALL BE AS SHOWN ON THE CONSTRUCTION STAGING PLAN. THE CONTRACTOR SHALL PROVIDE, INSTALL AND RELOCATE THE ITEMS AS REQUIRED. THE COST OF THIS WORK IS TO BE INCIDENTAL TO THE CONTRACT.

CONTRACTOR SHALL PROVIDE, INSTALL AND REMOVE ALL TRAFFIC CONTROL ITEMS WHEN CONSTRUCTION ACTIVITIES ARE WITHIN 15 FEET OF AN ACTIVE ROADWAY EDGE OR AS REQUIRED BY THE SITE PLAN AND CONSTRUCTION STAGING PLAN. COST OF THIS WORK IS TO BE INCIDENTAL TO THE CONTRACT.

AIRFIELD OPERATIONAL SAFETY DURING CONSTRUCTION

ALL CONSTRUCTION TRAFFIC AND PERSONNEL SHALL REMAIN WITHIN THE CONSTRUCTION LIMIT LINE SHOWN ON THE STAGING PLAN FOR THE STAGE CURRENTLY UNDER CONSTRUCTION. CONTRACTOR'S PERSONNEL AND EQUIPMENT MUST NOT OPERATE WITHIN THE DISTANCES FROM ACTIVE TAXIWAY CENTERLINES AND APRON EDGES SHOWN IN THE STAGING PLAN.

WHEN IT IS NECESSARY FOR CONSTRUCTION VEHICLES TO OPERATE ON OR WITHIN THESE LIMITS, THE TAXIWAYS OR APRON MUST BE CLOSED. THE CONTRACTOR WILL PROVIDE POSITIVE CONTROL OF CONSTRUCTION VEHICLES USING RADIO-EQUIPPED FLAGGERS. ALL CONSTRUCTION VEHICLES USED IN ACTIVE AIRPORT OPERATIONS AREAS SHALL BE EQUIPPED WITH A FAA-STANDARD FLAG, AS REFERENCED IN FAA AC 150/5370-2, CURRENT ISSUE.

WHEN NOT IN USE AND DURING NONWORKING HOURS, CONTRACTOR'S EQUIPMENT SHALL BE PARKED WITHIN THE CONTRACTOR'S EQUIPMENT, STORAGE AND PARKING AREA. AT NO TIME SHALL THE CONTRACTOR OPERATE OR PARK EQUIPMENT SO AS TO OBSTRUCT AN ACTIVE RUNWAY APPROACH SURFACE.

BEFORE REOPENING TEMPORARILY CLOSED TAXIWAYS, APRONS, ROADWAYS OR PARKING LOTS, THE CONTRACTOR SHALL INSPECT AND CLEAN, AS NECESSARY, THE PAVEMENT TO ASSURE THAT NO MATERIALS OR OBJECTS THAT MAY DAMAGE AIRCRAFT OR VEHICLES REMAIN. ANY REQUIRED CLEANING SHALL BE TO THE SATISFACTION OF THE RESIDENT ENGINEER AND AIRPORT DIRECTOR AND IS INCIDENTAL TO THE CONTRACT.

NOTIFICATIONS BY CONTRACTOR

THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER AND AIRPORT DIRECTOR 72 HOURS IN ADVANCE OF THE CONTRACTOR'S CLOSING OF ACTIVE TAXIWAYS, APRONS, ROADWAYS, PARKING LOTS, AIRFIELD OR ROADWAY LIGHTING CIRCUITS OR OTHER AIRPORT OPERATIONAL FACILITIES.

CONTRACTOR'S USE OF SITE

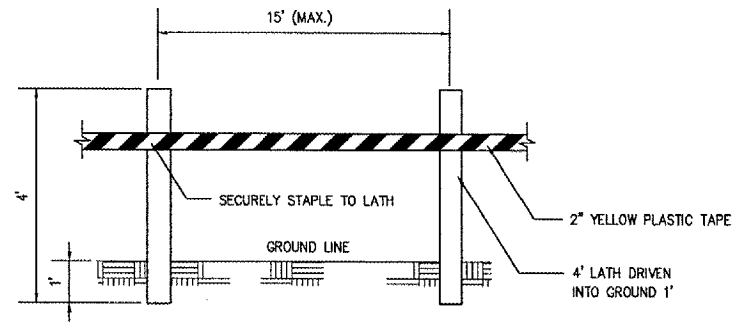
THE CONTRACTOR SHALL NOT OPERATE WITHIN, ENCROACH UPON OR OBSTRUCT AIRPORT OPERATIONAL AREAS, INCLUDING ACTIVE RUNWAY, TAXIWAYS AND APRON SAFETY AREAS, OBJECT AND OBSTACLE FREE ZONES, RUNWAY PROTECTION ZONES AND AIRPORT IMAGINARY SURFACES AS DEFINED IN FEDERAL AVIATION REGULATIONS (FAR) PART 77, "OBJECTS AFFECTING NAVIGABLE AIRSPACE".

UTILITY OUTAGES AND SHUTDOWNS

THE CONTRACTOR SHALL PROVIDE 72 HOURS PRIOR NOTICE OF ANY OUTAGES OR SHUTDOWNS TO THE OWNER AND THE AGENCY OWNING THE AFFECTED UTILITY. THE CONTRACTOR SHALL PROVIDE ANY TEMPORARY CONNECTIONS OR OTHER MEASURES AS MAY BE REQUIRED TO MAINTAIN SERVICE AS MAY BE REQUIRED BY THE OWNING AGENCY AT NO COST TO THE OWNER.

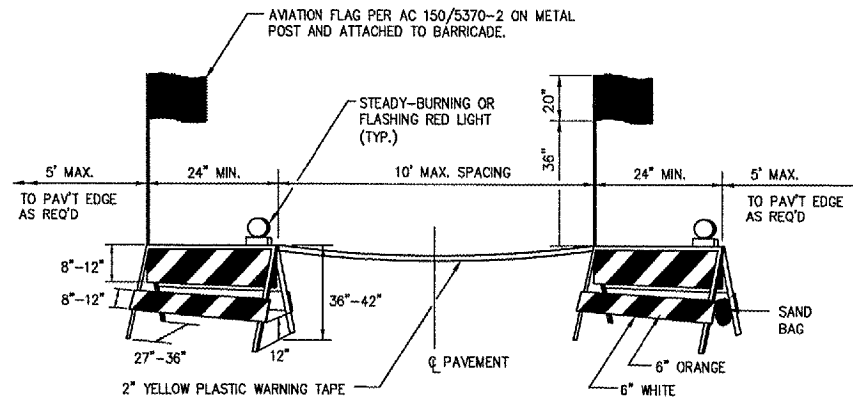
AVAILABLE SOIL DATA

A BORING LOCATION PLAN AND SOIL BORING LOGS ARE INCLUDED WITH THE PLANS. ADDITIONAL DETAILED SOIL TEST MATERIAL IS ALSO AVAILABLE UPON REQUEST. BORING INFORMATION AND INFORMATION ON SOIL TESTS IS MADE AVAILABLE SOLELY FOR THE CONVENIENCE OF THE BIDDER AND/OR CONTRACTOR. NEITHER THE OWNER NOR THE PROJECT ENGINEER ASSUMES ANY RESPONSIBILITY WHATSOEVER IN RESPECT TO THE ACCURACY OR SUFFICIENCY OF THE AVAILABLE INFORMATION AND THERE IS NO EXPRESSED OR IMPLIED GUARANTEE THAT THE CONDITIONS DESCRIBED IN THE SOIL TEST DATA ARE REPRESENTATIVE OF ALL CONDITIONS THAT MAY BE ENCOUNTERED.



MATERIALS ARE TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION. COST OF MATERIALS, INSTALLATION, RELOCATION AND MAINTENANCE OF LATHING AND WARNING TAPE IS TO BE INCIDENTAL TO THE CONTRACT.

DETAIL A LATHING AND WARNING TAPE



BARRICADES ARE TO BE OF IDOT TYPE I. A STEADY-BURNING OR FLASHING RED LIGHT FACING PASSING TRAFFIC IS TO BE MOUNTED ABOVE THE TOP OF EACH BARRICADE FRAME. THE BARRICADE IS TO BE STABILIZED FROM WIND BY SANDBAGS PLACED ON THE FRAME OR OTHER METHODS APPROVED BY THE RESIDENT ENGINEER. NO PART OF THE REFLECTORIZED PORTION OF THE BARRICADE IS TO BE OBSTRUCTED IN ANY MANNER. COST OF FURNISHING, INSTALLING, RELOCATING AND MAINTAINING BARRICADES IS TO BE INCIDENTAL TO THE CONTRACT.

DETAIL B PAVEMENT BARRICADES



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EXTEND TAXIWAY E; CONSTRUCT GA APRON, AVGAS FUELING APRON AND AUTO PARK 100

AIP PROJECT NO. 3-17-0140-B38 IDA PROJECT NO. LOT-3441

Table with 4 columns: No., Drawing Issue Description, Date, By. It contains several empty rows for tracking drawing issues.

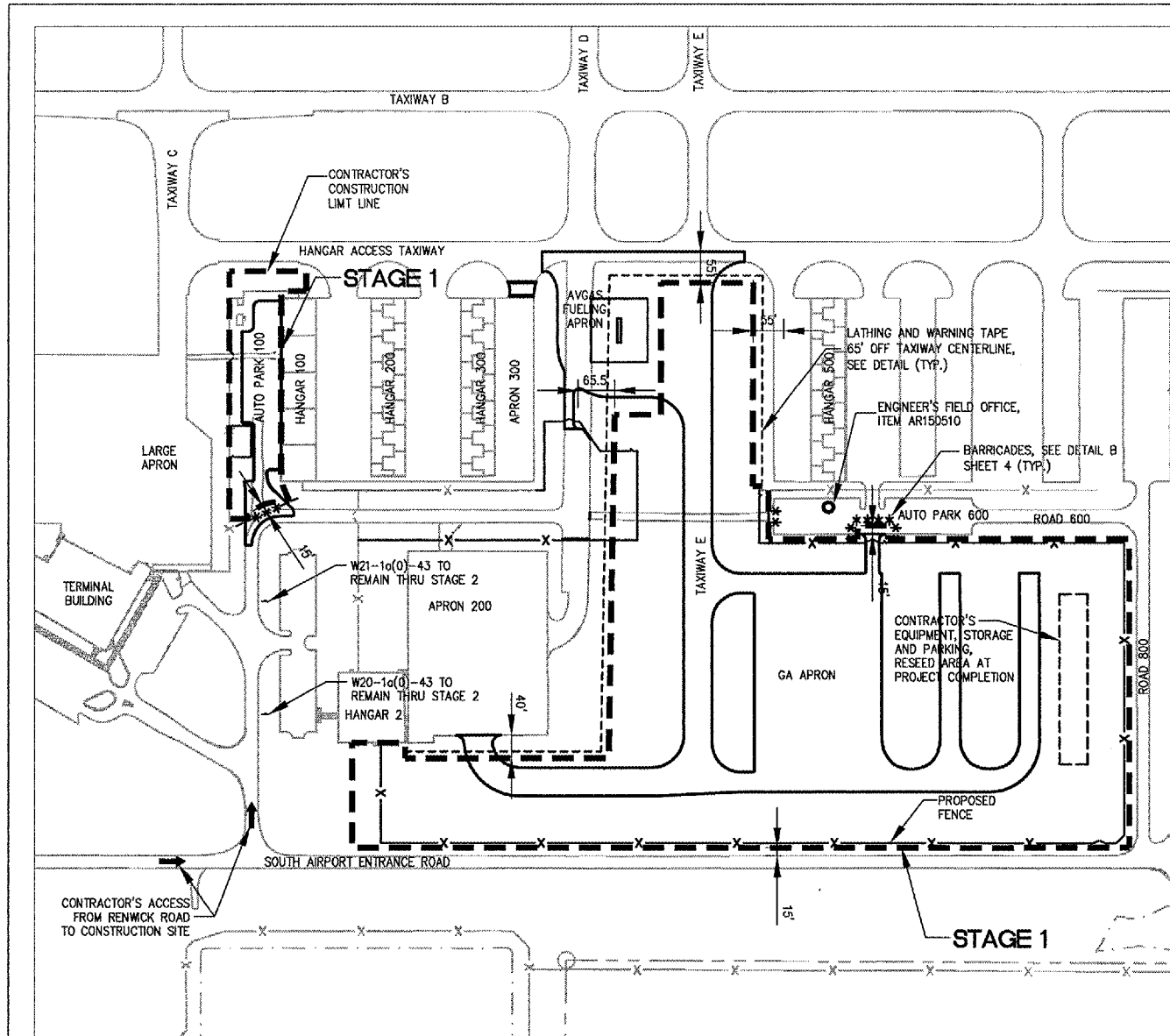
Date: MARCH 25, 2005 Sheet Title

CONSTRUCTION AND SAFETY NOTES AND DETAILS

840-04D8041 Project Number LDH 02/09/05 Layout By Date LDH/TMM 02/09/05 Designed By Date RMH 03/15/05 Reviewed By Date LDH TMM Drawn By Sheet No.

DETAILS SHOWN ARE NOT TO SCALE

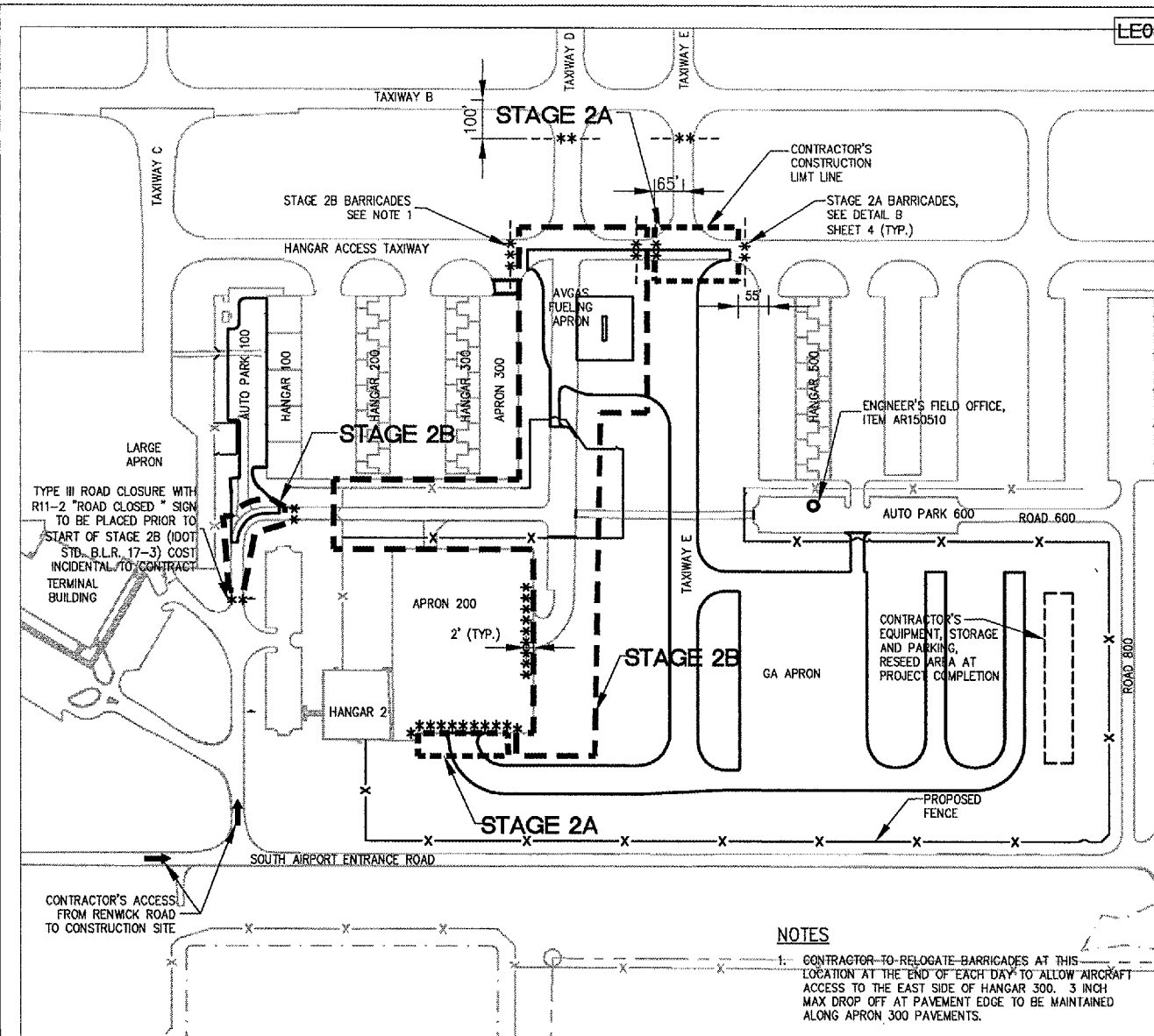
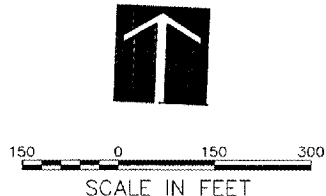
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STAGE 1

NOTES:

- ALL CONTRACTOR'S ACTIVITIES SHALL BE LIMITED TO AREA WITHIN THE STAGE 1 LIMITS AS SHOWN.
- ALL CONSTRUCTION EQUIPMENT WILL BE LIMITED TO A HEIGHT OF 30 FEET UNLESS PRIOR APPROVAL GIVEN BY THE ENGINEER.
- SEE CONSTRUCTION AND SAFETY NOTES, SHEET 4.
- THE FOLLOWING ITEMS ARE TO BE COMPLETED IN STAGE 1:**
- PROVIDE TEMPORARY BARRICADES AS SHOWN.
- PROVIDE LATHING AND WARNING TAPE AS SHOWN.
- PROVIDE ENGINEER'S FIELD OFFICE AND CONTRACTOR'S EQUIPMENT, STORAGE AND PARKING AREA.
- INSTALL TEMPORARY SOIL EROSION CONTROL MEASURES AS REQUIRED.
- COMPLETE EARTHWORK AND INSTALL STORM SEWER PIPE, DRAINAGE STRUCTURES AND CONCRETE ENCASED DUCT WITHIN STAGE 1 LIMITS.
- PREPARE SUBGRADE WITHIN STAGE 1 LIMITS.
- PLACE CRUSHED AGGREGATE BASE WITHIN STAGE 1 LIMITS.
- INSTALL UNDERDRAINS WITHIN STAGE 1 LIMITS.
- PLACE P.C.C. PAVEMENT, TIE DOWNS, GROUND RODS.
- CONSTRUCT BITUMINOUS PAVEMENT WITHIN STAGE 1 LIMITS.
- PLACE PROPOSED PAVEMENT MARKINGS WITHIN STAGE 1 LIMITS.
- INSTALL HIGH-MAST LIGHTING POLES AND ASSOCIATED ELECTRICAL WITHIN STAGE 1 LIMITS.
- INSTALL FENCING AND ELECTRIC GATES WITHIN STAGE 1 LIMITS - ADDITIVE NO. 1.
- REGRADE SHOULDERS AND SWALES WHERE NECESSARY WITHIN STAGE 1 LIMITS.
- TOPSOIL AND SEED WITHIN STAGE 1 LIMITS.
- REMOVE LATHING AND WARNING TAPE, BARRICADES AND TEMPORARY EROSION CONTROL MEASURES AS NECESSARY WITHIN STAGE 1 LIMITS.



STAGE 2A

NOTES (STAGE 2A & 2B):

- NEITHER STAGE 2A OR 2B MAY BEGIN BEFORE JULY 1, 2005.**
- STAGE 2A MUST BE COMPLETED WITHIN 3 CALENDAR DAYS.
- ALL CONTRACTOR'S ACTIVITIES SHALL BE LIMITED TO AREA WITHIN THE STAGE 2A LIMITS AS SHOWN.
- ALL CONSTRUCTION EQUIPMENT WILL BE LIMITED TO A HEIGHT OF 30 FEET UNLESS PRIOR APPROVAL GIVEN BY THE ENGINEER.
- SEE CONSTRUCTION AND SAFETY NOTES, SHEET 4.
- THE FOLLOWING ITEMS ARE TO BE COMPLETED IN STAGE 2A:**
- PROVIDE TEMPORARY BARRICADES AS SHOWN.
- PROVIDE LATHING AND WARNING TAPE AS SHOWN.
- INSTALL TEMPORARY SOIL EROSION CONTROL MEASURES AS REQUIRED.
- COMPLETE EARTHWORK WITHIN STAGE 2A LIMITS.
- PREPARE SUBGRADE WITHIN STAGE 2A LIMITS.
- PLACE CRUSHED AGGREGATE BASE WITHIN STAGE 2A LIMITS.
- INSTALL UNDERDRAINS WITHIN STAGE 2A LIMITS.
- CONSTRUCT BITUMINOUS PAVEMENT WITHIN STAGE 2A LIMITS.
- REGRADE SHOULDERS AND SWALES WHERE NECESSARY WITHIN STAGE 2A LIMITS.
- PLACE TOPSOIL WITHIN STAGE 2A LIMITS.

STAGE 2B

THE FOLLOWING ITEMS ARE TO BE COMPLETED IN STAGE 2B:

- PROVIDE TEMPORARY BARRICADES AS SHOWN.
- PROVIDE LATHING AND WARNING TAPE AS SHOWN.
- INSTALL TEMPORARY SOIL EROSION CONTROL MEASURES AS REQUIRED.
- COMPLETE EARTHWORK AND INSTALL STORM SEWER PIPE, DRAINAGE STRUCTURES AND CONCRETE ENCASED DUCT WITHIN STAGE 2B LIMITS.
- PREPARE SUBGRADE WITHIN STAGE 2B LIMITS.
- PLACE CRUSHED AGGREGATE BASE WITHIN STAGE 2B LIMITS.
- INSTALL UNDERDRAINS WITHIN STAGE 2B LIMITS.
- PLACE P.C.C. PAVEMENT, TIE DOWNS, GROUND RODS.
- CONSTRUCT BITUMINOUS PAVEMENT WITHIN STAGE 2B LIMITS.
- INSTALL HIGH-MAST LIGHTING POLES AND ASSOCIATED ELECTRICAL WITHIN STAGE 2B LIMITS.
- INSTALL FENCING WITHIN STAGE 2B LIMITS.
- REGRADE SHOULDERS AND SWALES WHERE NECESSARY WITHIN STAGE 2B LIMITS.
- PLACE TOPSOIL WITHIN STAGE 2B LIMITS.
- ALL SEEDING WITHIN STAGE 2A AND 2B LIMITS.
- PLACE PAVEMENT MARKINGS WITHIN STAGE 2A AND 2B LIMITS.
- CLEAN UP ANY REMAINING MATERIALS AND DEBRIS AND SWEEP PAVEMENT PRIOR TO REOPENING.
- REMOVE LATHING AND WARNING TAPE AND TEMPORARY BARRICADES.
- REMOVE TEMPORARY SOIL EROSION CONTROL MEASURES ONCE A STAND OF GRASS HAS DEVELOPED.

NOTES

- CONTRACTOR TO RELOCATE BARRICADES AT THIS LOCATION AT THE END OF EACH DAY TO ALLOW AIRCRAFT ACCESS TO THE EAST SIDE OF HANGAR 300. 3 INCH MAX DROP OFF AT PAVEMENT EDGE TO BE MAINTAINED ALONG APRON 300 PAVEMENTS.



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JOLIET REGIONAL PORT DISTRICT

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EXTEND TAXIWAY E: CONSTRUCT GA APRON, AVGAS FUELING APRON AND AUTO PARK 100

AIP PROJECT NO. 3-17-0140-B38
 IDA PROJECT NO. LOT-3441

No.	Drawing Issue Description	Date	By

Date
 MARCH 25, 2005
 Sheet Title

CONSTRUCTION STAGING PLAN

840-04D8041
 Project Number
 LDH 03/11/05
 Layout By Date
 LDH/TMM 03/11/05
 Designed By Date
 RMH 03/15/05
 Reviewed By Date
 LDH TMM ---
 Drawn By Sheet No.

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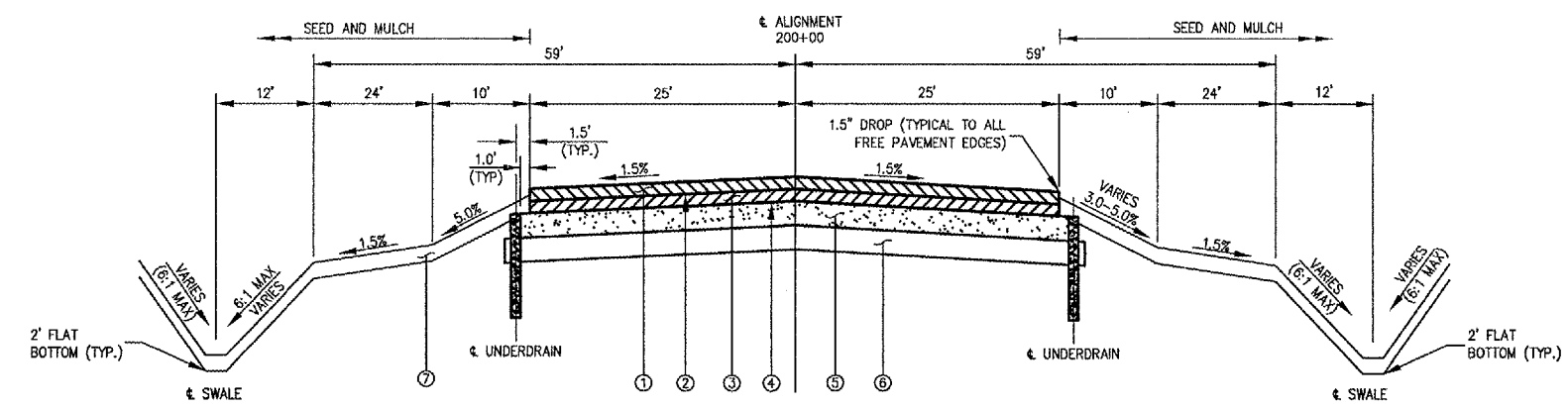


JOLIET REGIONAL PORT DISTRICT

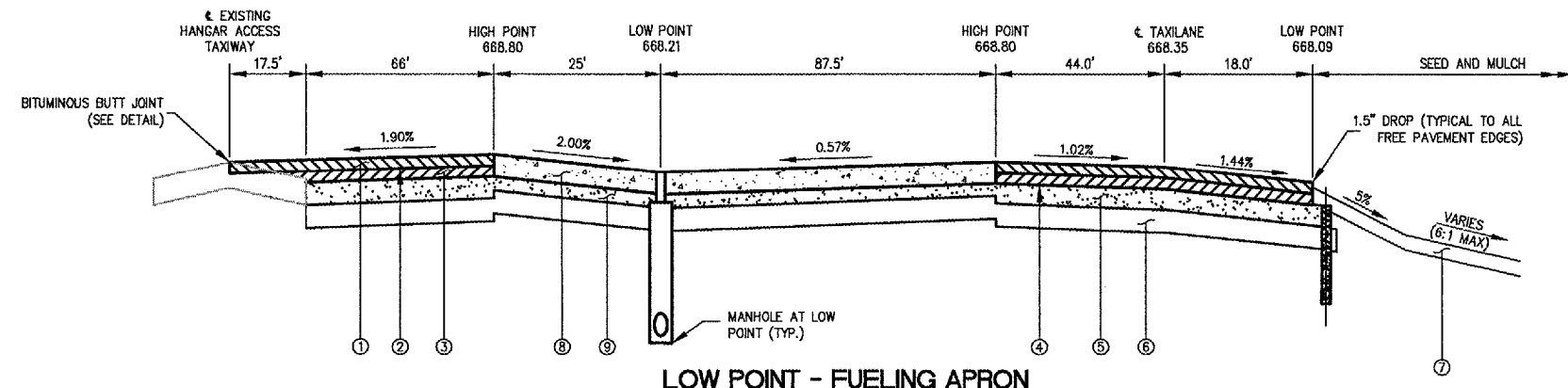
1 Hangar Road
Romeoville, Illinois 60446
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Fax: 815.838.9524

**EXTEND TAXIWAY E; CONSTRUCT
GA APRON, AVGAS FUELING APRON
AND AUTO PARK 100**

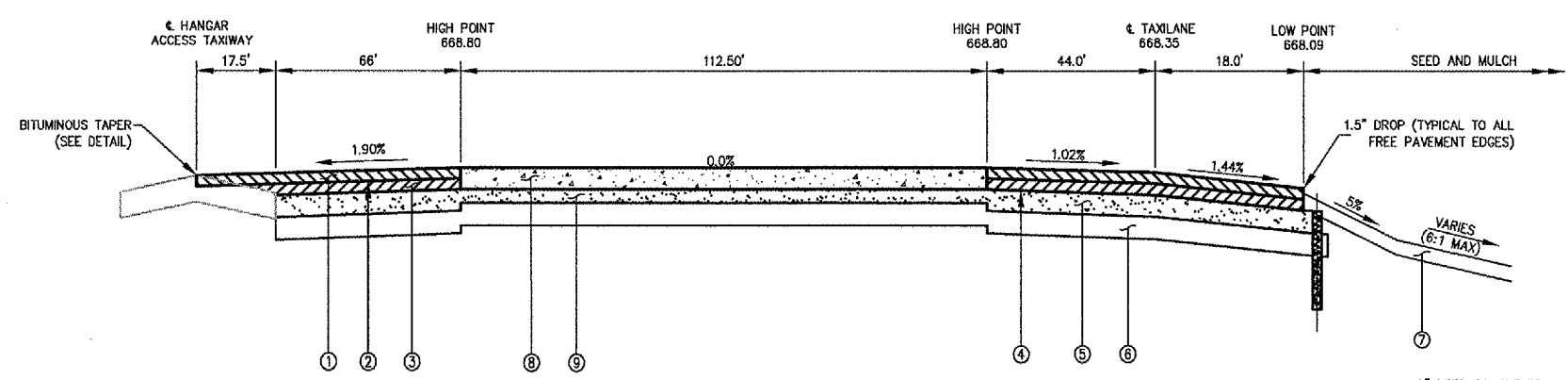
AIP PROJECT NO. 3-17-0140-B38
IDA PROJECT NO. LOT-3441



TYPICAL SECTION - TAXIWAY E
(SECTION SHOWN LOOKING NORTH)



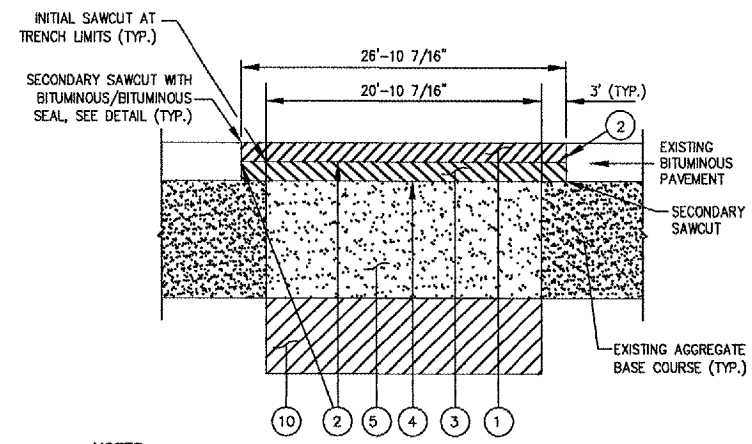
LOW POINT - FUELING APRON
(SECTION SHOWN LOOKING EAST)



HIGH POINT - FUELING APRON
(SECTION SHOWN LOOKING EAST)

- 1 PROPOSED 2 INCH BITUMINOUS SURFACE COURSE, ITEM AR401610
- 2 PROPOSED BITUMINOUS TACK COAT, ITEM AR603510
- 3 PROPOSED 2 INCH BITUMINOUS BASE COURSE, ITEM AR201610
- 4 PROPOSED BITUMINOUS PRIME COAT, ITEM AR602510
- 5 PROPOSED 12 INCH CRUSHED AGGREGATE BASE COURSE, ITEM AR209612
- 6 PROPOSED PREPARED SUBGRADE:
CUT AREAS- REMOVE TOPSOIL TO FINISHED SUBGRADE ELEV., ADDITIONAL UNDERCUT BELOW FINISHED SUBGRADE IN AREAS SHOWN ON PLANS AND/OR AS DETERMINED BY ROLL TEST (SEE UNDERCUT DETAIL)*
FILL AREAS- REMOVE TOPSOIL, ADDITIONAL UNDERCUT IN AREAS SHOWN ON PLANS AND/OR AS DETERMINED BY ROLL TEST (SEE UNDERCUT DETAIL)*
- 7 PROPOSED 4" TOPSOIL, ITEM AR905510
- 8 PROPOSED 6 INCH P.C.C. PAVEMENT, ITEM AR501506
- 9 PROPOSED 6 INCH CRUSHED AGGREGATE BASE COURSE, ITEM AR209606
- 10 TRENCH BACKFILL FOR PIPE TRENCH, INCIDENTAL TO PIPE

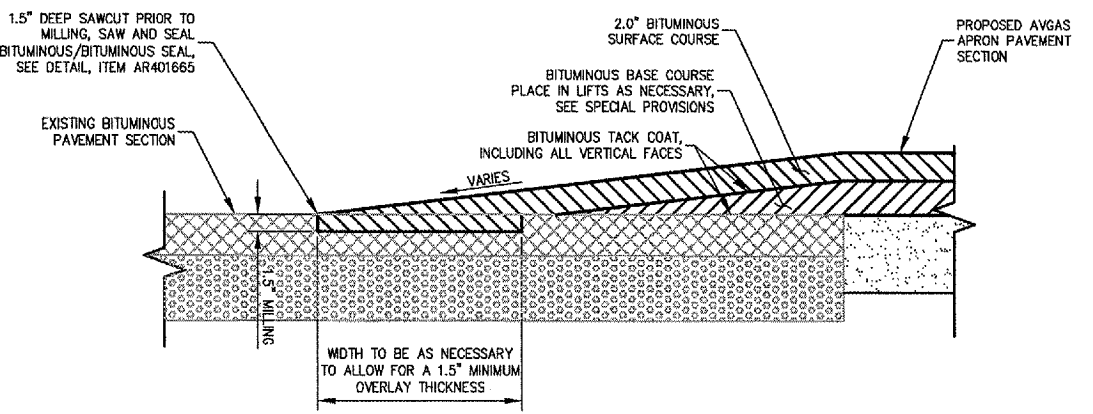
* ALL TOPSOIL TO BE REMOVED WITHIN 5' OF PROPOSED PAVEMENT AREAS AND UNDER FUTURE HANGAR SITES (QUANTITY INCLUDED IN ITEM AR152410). NO TOPSOIL OR UNSUITABLE TO BE PLACED UNDER THE PAVEMENT SECTION WITHIN 5' OF PAVEMENT EDGES.



NOTES

1. ALL WORK RELATED TO THE PAVEMENT REMOVAL AND REPLACEMENT IS INCLUDED IN ITEM AR401910 EXCEPT FOR PAVEMENT SAWING.
2. BITUMINOUS PAVEMENT SAWING TO BE PAID AS ITEM AR401665.
3. WIDTH OF PATCH SHALL BE REDUCED BASED ON ACTUAL WIDTH OF PIPE TRENCH. WIDTH NOT TO EXCEED THAT SHOWN ON THE DETAIL.

BITUMINOUS PAVEMENT REMOVAL AND REPLACEMENT
(ITEM AR401910)



BITUMINOUS TAPER DETAIL

No.	Drawing Issue	Description	Date	By

Date
MARCH 25, 2005
Sheet Title

TYPICAL SECTIONS

840-04D8041
Project Number
LDH 01/19/05
Layout By Date
LDH/TMM 02/14/05
Designed By Date
RMH 03/16/05
Reviewed By Date
LDH
Drawn By Date

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HANSON PROFESSIONAL SERVICES INC.
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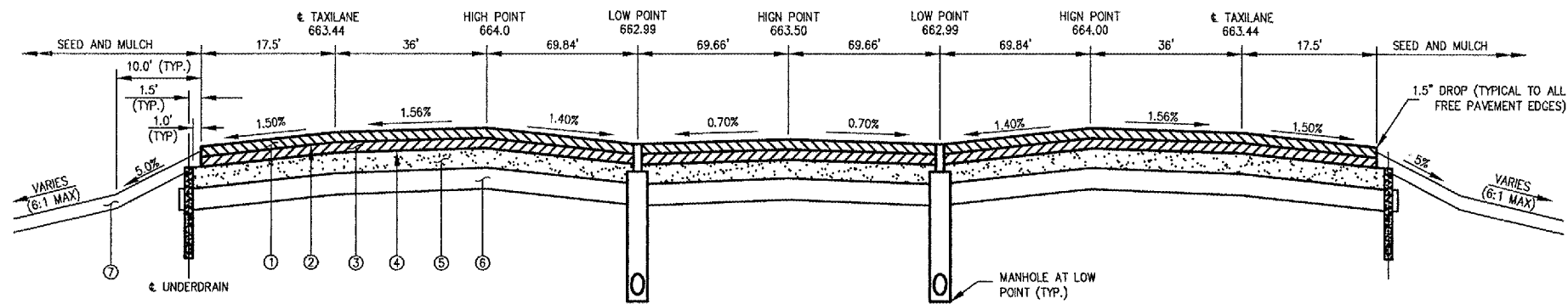


JOLIET REGIONAL PORT DISTRICT

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EXTEND TAXIWAY E: CONSTRUCT
 GA APRON, AVGAS FUELING APRON
 AND AUTO PARK 100

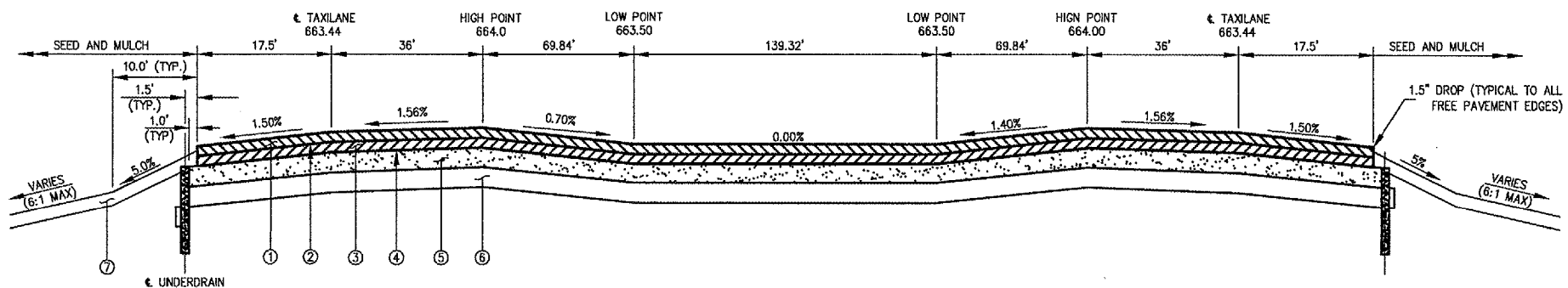
AIP PROJECT NO. 3-17-0140-B38
 IDA PROJECT NO. LOT-3441



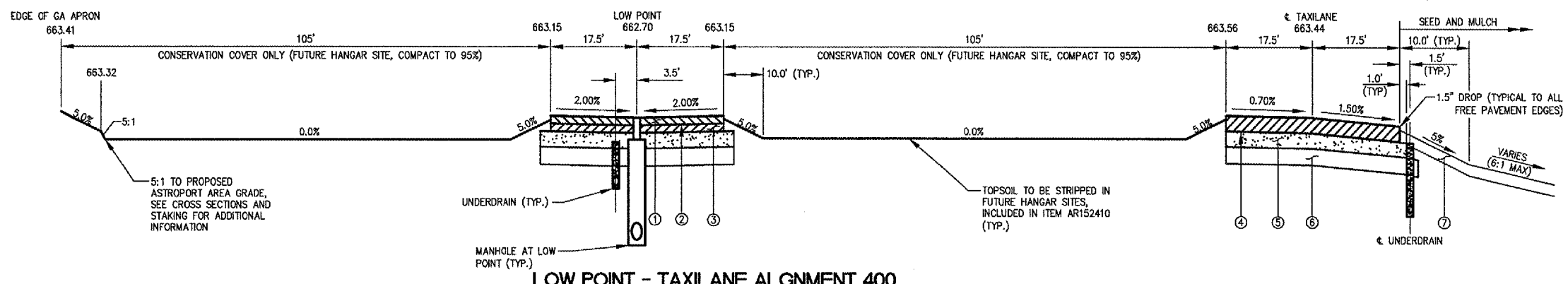
LOW POINT - GA APRON AREA - STA 369+57.19
 (SECTION SHOWN LOOKING EAST)

- ① PROPOSED 2 INCH BITUMINOUS SURFACE COURSE, ITEM AR401610
- ② PROPOSED BITUMINOUS TACK COAT, ITEM AR603510
- ③ PROPOSED 2 INCH BITUMINOUS BASE COURSE, ITEM AR201610
- ④ PROPOSED BITUMINOUS PRIME COAT, ITEM AR602510
- ⑤ PROPOSED 12 INCH CRUSHED AGGREGATE BASE COURSE, ITEM AR209612
- ⑥ PROPOSED PREPARED SUBGRADE:
 CUT AREAS- REMOVE TOPSOIL, ADDITIONAL CUT AREAS NECESSARY TO FINISHED SUBGRADE ELEV., ADDITIONAL UNDERCUT BELOW FINISHED SUBGRADE IN AREAS SHOWN ON PLANS AND/OR AS DETERMINED BY ROLL TEST (SEE UNDERCUT DETAIL)*
 FILL AREAS- REMOVE TOPSOIL, ADDITIONAL UNDERCUT IN AREAS SHOWN ON PLANS AND/OR AS DETERMINED BY ROLL TEST (SEE UNDERCUT DETAIL)*
- ⑦ PROPOSED 4" TOPSOIL, ITEM AR905510

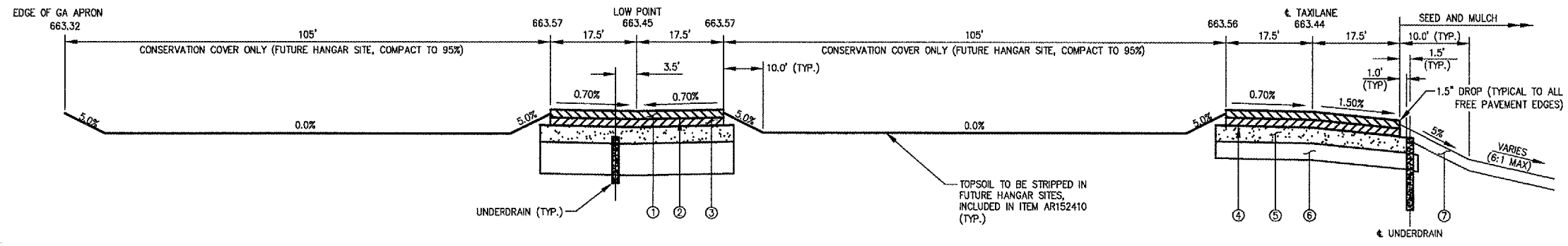
* ALL TOPSOIL TO BE REMOVED WITHIN 5' OF PROPOSED PAVED AREAS AND UNDER FUTURE HANGAR SITES (QUANTITY INCLUDED IN ITEM AR152410). NO TOPSOIL TO BE PLACED UNDER THE PAVEMENT SECTION WITHIN 5' OF PAVEMENT EDGES.



HIGH POINT - GA APRON AREA - STA 370+20.13
 (SECTION SHOWN LOOKING EAST)



LOW POINT - TAXILANE ALIGNMENT 400
 (SECTION SHOWN LOOKING NORTH)



HIGH POINT - TAXILANE ALIGNMENT 400
 (SECTION SHOWN LOOKING NORTH)

No.	Drawing Issue	Description	Date	By

Date
 MARCH 25, 2005
 Sheet Title

TYPICAL SECTIONS

840-04D8041
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 LDH 01/19/05
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 LDH/TMM 02/14/05
 Designed By Date
 RMH 03/16/05
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 Sheet No.

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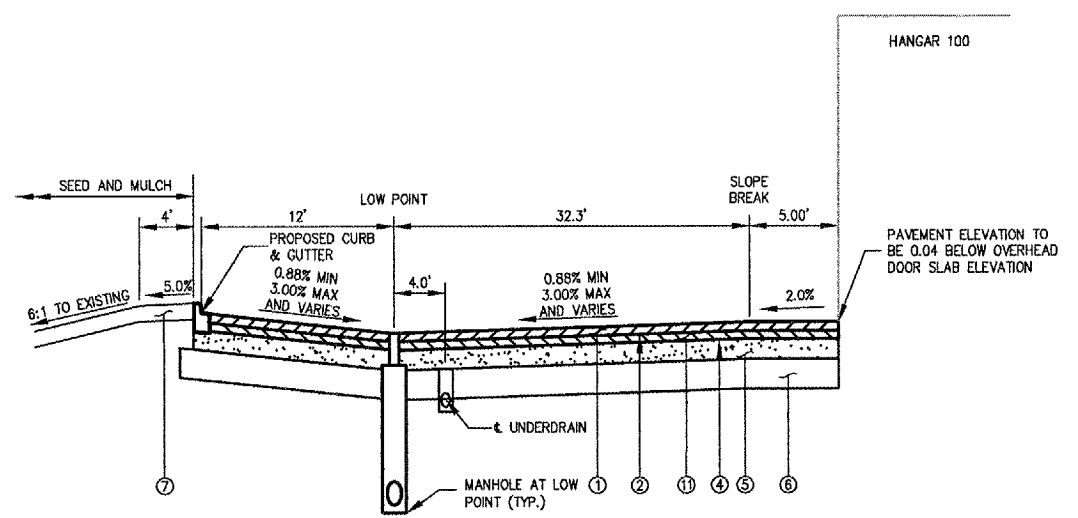
HANSON PROFESSIONAL SERVICES INC.
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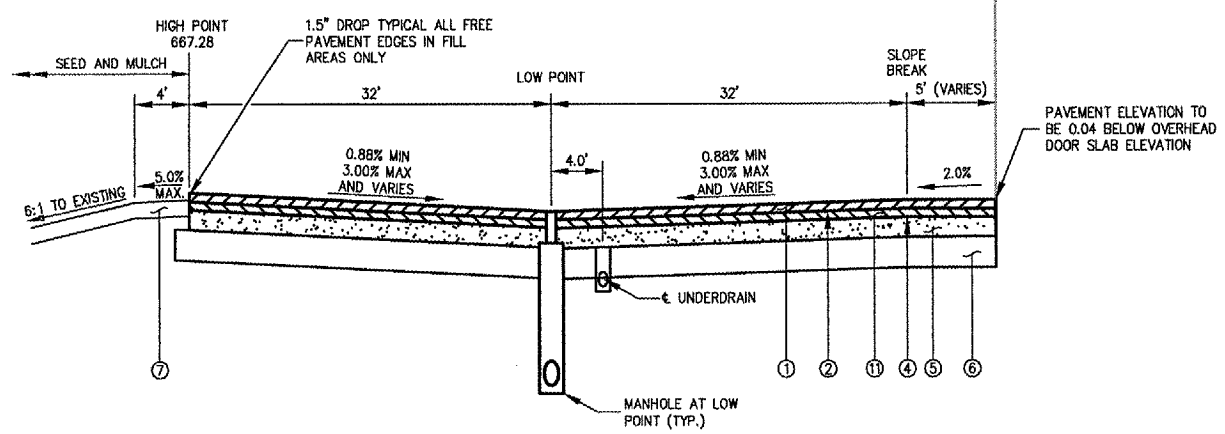
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EXTEND TAXIWAY E: CONSTRUCT
 GA APRON, AVGAS FUELING APRON
 AND AUTO PARK 100

AIP PROJECT NO. 3-17-0140-B38
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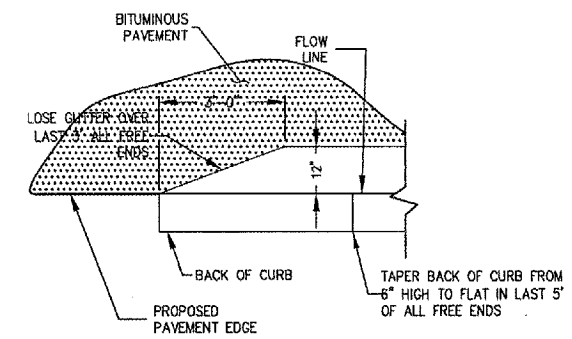
**TYPICAL SECTION
 AUTO PARK 100
 STA. 509+71 TO STA. 510+53**
 (SECTION SHOWN LOOKING NORTH)



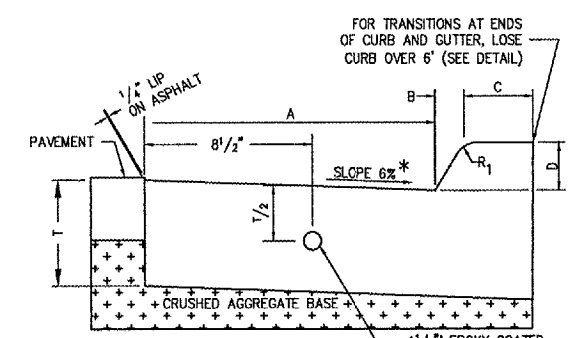
**TYPICAL SECTION
 AUTO PARK 100
 STA. 507+55 TO STA. 509+71**
 (SECTION SHOWN LOOKING NORTH)

- ① PROPOSED 2 INCH BITUMINOUS SURFACE COURSE, ITEM AR401610
- ② PROPOSED BITUMINOUS TACK COAT, ITEM AR603510
- ③ PROPOSED 2 INCH BITUMINOUS BASE COURSE, ITEM AR201610
- ④ PROPOSED BITUMINOUS PRIME COAT, ITEM AR602510
- ⑤ PROPOSED 10 INCH CRUSHED AGGREGATE BASE COURSE, ITEM AR209610
- ⑥ PROPOSED PREPARED SUBGRADE: REMOVE TOPSOIL TO FINISHED SUBGRADE ELEV., ADDITIONAL UNDERCUT BELOW FINISHED SUBGRADE IN AREAS SHOWN ON PLANS AND/OR AS DETERMINED BY ROLL TEST (SEE UNDERCUT DETAIL)*
 FILL AREAS- REMOVE TOPSOIL, ADDITIONAL UNDERCUT IN AREAS SHOWN ON PLANS AND/OR AS DETERMINED BY ROLL TEST (SEE UNDERCUT DETAIL)*
- ⑦ PROPOSED 4" TOPSOIL, ITEM AR905510
- ⑧ PROPOSED 6 INCH P.C.C. PAVEMENT, ITEM AR501506
- ⑨ PROPOSED 6 INCH CRUSHED AGGREGATE BASE COURSE, ITEM AR209606
- ⑩ TRENCH BACKFILL FOR PIPE TRENCH, INCIDENTAL TO PIPE
- ⑪ PROPOSED 3 INCH BITUMINOUS BASE COURSE, ITEM 201610

* ALL TOPSOIL TO BE REMOVED WITHIN 5' OF PROPOSED PAVED AREAS AND UNDER FUTURE HANGAR SITES. QUANTITY INCLUDED IN ITEM AR152410.



PLAN VIEW OF CURB TRANSITION

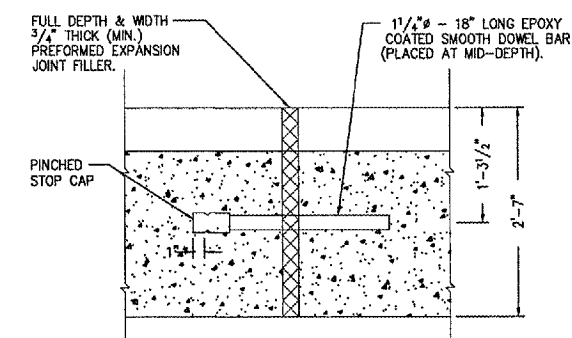


* CURB AND GUTTER ON WEST SIDE OF THE PARKING LOT TO BE BACKPITCHED AT 6.0% SLOPE.

TABLE OF DIMENSIONS BARRIER CURB(IN)						
TYPE	A	B	C	D	R ₁	T
B-6.12	12	1	6	6	1	9

SECTION

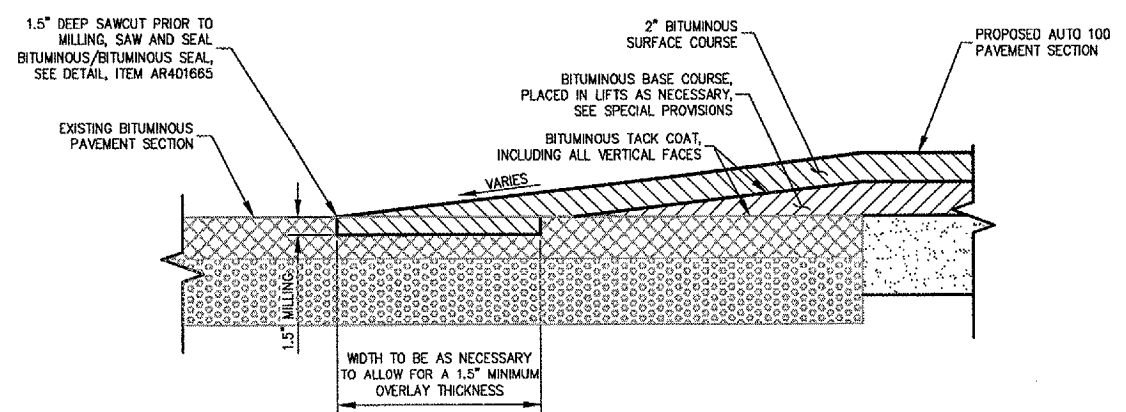
COMBINATION CONCRETE CURB AND GUTTER
 (DOT STANDARD 606001 - MODIFIED)



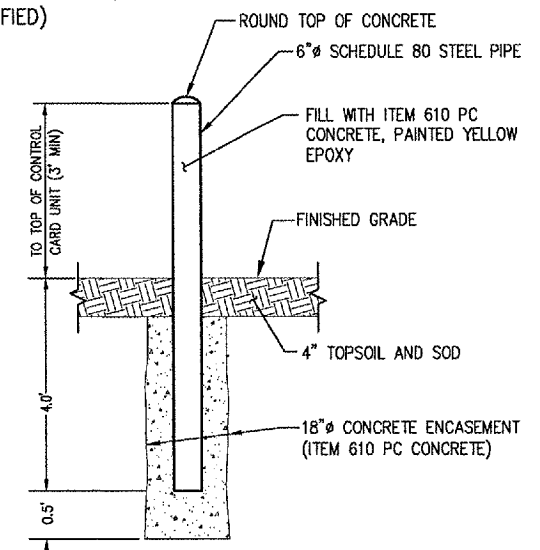
EXPANSION JOINT DETAIL

NOTES

1. CONTRACTION JOINTS TO BE LOCATED AT NO GREATER THAN 12.5' ON CENTER. CONTRACTION JOINTS ARE TO BE EITHER 3/4" THICK PREFORMED JOINT FILLER, SAWED 2" DEEP AT 4 TO 24 HOURS OR FORMED WITH A 1/8" THICK STEEL TEMPLATE 2" DEEP.
2. EXPANSION JOINTS TO BE LOCATED 5' FROM EACH SIDE OF AN INLET STRUCTURE AND AT 50' MAX SPACING.
3. ALL EXPANSION AND CONTRACTION JOINTS TO BE SEALED SONNEBORN "NP 1" OR APPROVED EQUAL.
4. COST OF CRUSHED AGGREGATE BASE UNDER CURB AND GUTTER INCIDENTAL TO ITEM 754.



BITUMINOUS TAPER DETAIL



NOTES

1. THE EXPOSED PORTION OF THE BOLLARD SHALL BE PAINTED YELLOW EPOXY.
2. BOLLARD AND ASSOCIATED ITEMSTO BE PAID UNDER AR800993 OR AS800993

BOLLARD DETAIL

No.	Drawing Issue	Description	Date	By

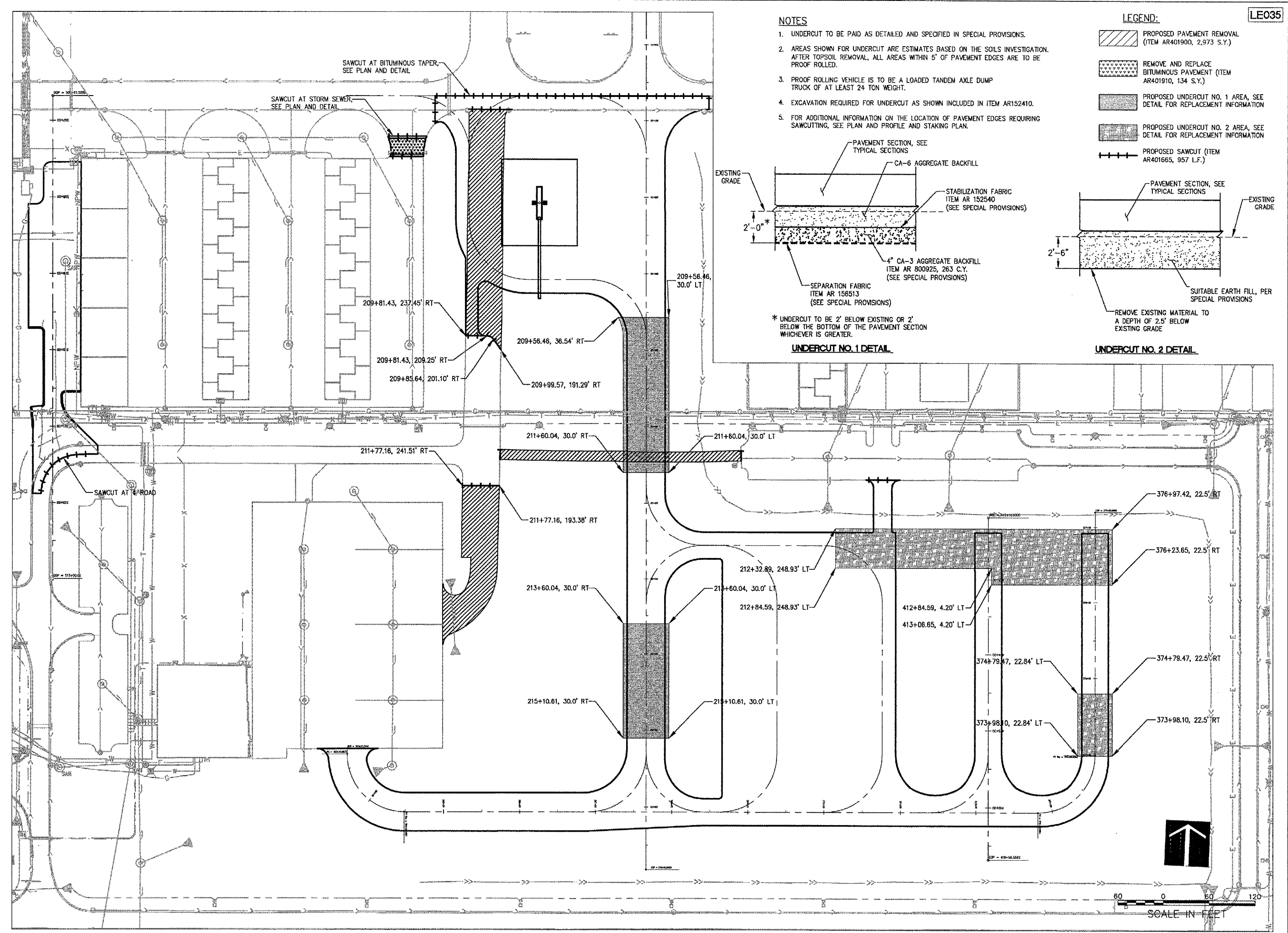
Date: **MARCH 25, 2005**
 Sheet Title:

TYPICAL SECTIONS AND PAVEMENT DETAILS

840-04D8041
 Project Number
 LDH 01/19/05
 Layout By Date
 SJM/TMM 02/17/05
 Designed By Date
 RMH 03/11/05
 Reviewed By Date
 SJM
 Drawn By Sheet No.

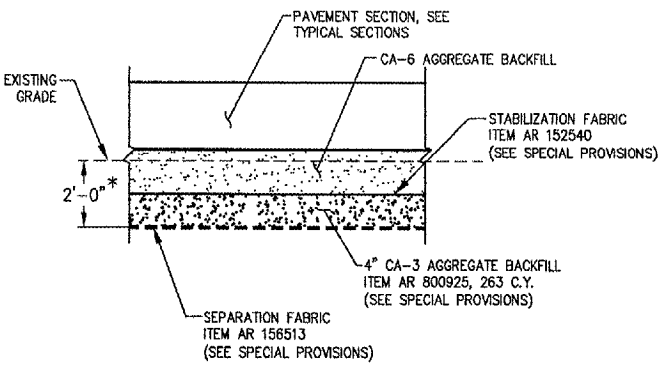
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P:\04\085\0840\040804\DRAWINGS\03-PAVEMENT REMOVAL AND SAWCUTTING PLAN.DWG MAR 28, 2005 12:12PM TMM

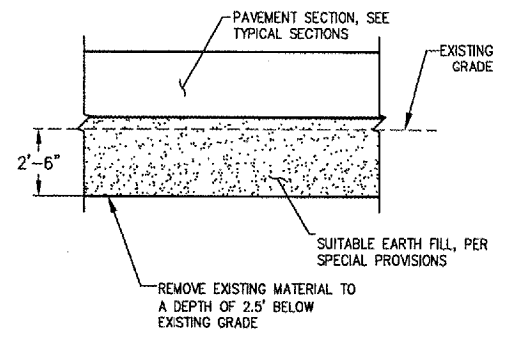


- NOTES**
- UNDERCUT TO BE PAID AS DETAILED AND SPECIFIED IN SPECIAL PROVISIONS.
 - AREAS SHOWN FOR UNDERCUT ARE ESTIMATES BASED ON THE SOILS INVESTIGATION. AFTER TOPSOIL REMOVAL, ALL AREAS WITHIN 5' OF PAVEMENT EDGES ARE TO BE PROOF ROLLED.
 - PROOF ROLLING VEHICLE IS TO BE A LOADED TANDEM AXLE DUMP TRUCK OF AT LEAST 24 TON WEIGHT.
 - EXCAVATION REQUIRED FOR UNDERCUT AS SHOWN INCLUDED IN ITEM AR152410.
 - FOR ADDITIONAL INFORMATION ON THE LOCATION OF PAVEMENT EDGES REQUIRING SAWCUTTING, SEE PLAN AND PROFILE AND STAKING PLAN.

- LEGEND:**
- PROPOSED PAVEMENT REMOVAL (ITEM AR401900, 2,973 S.Y.)
 - REMOVE AND REPLACE BITUMINOUS PAVEMENT (ITEM AR401910, 134 S.Y.)
 - PROPOSED UNDERCUT NO. 1 AREA, SEE DETAIL FOR REPLACEMENT INFORMATION
 - PROPOSED UNDERCUT NO. 2 AREA, SEE DETAIL FOR REPLACEMENT INFORMATION
 - PROPOSED SAWCUT (ITEM AR401665, 957 L.F.)



* UNDERCUT TO BE 2' BELOW EXISTING OR 2' BELOW THE BOTTOM OF THE PAVEMENT SECTION WHICHEVER IS GREATER.



LE035



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JOLIET REGIONAL PORT DISTRICT

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EXTEND TAXIWAY E; CONSTRUCT
GA APRON, AVGAS FUELING APRON
AND AUTO PARK 100

AIP PROJECT NO. 3-17-0140-B38
IDA PROJECT NO. LOT-3441

No.	Drawing Issue	Description	Date	By

Date
MARCH 25, 2005

Sheet Title

**SAWCUTTING, PAVEMENT
REMOVAL AND UNDERCUT
PLAN**

840-04D8041
Project Number

LDH 03/11/05
Layout By Date

LDH/TMM 03/12/05
Designed By Date

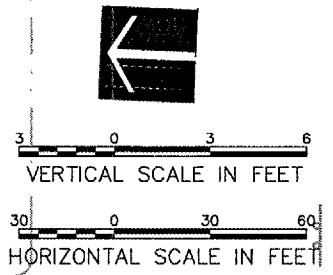
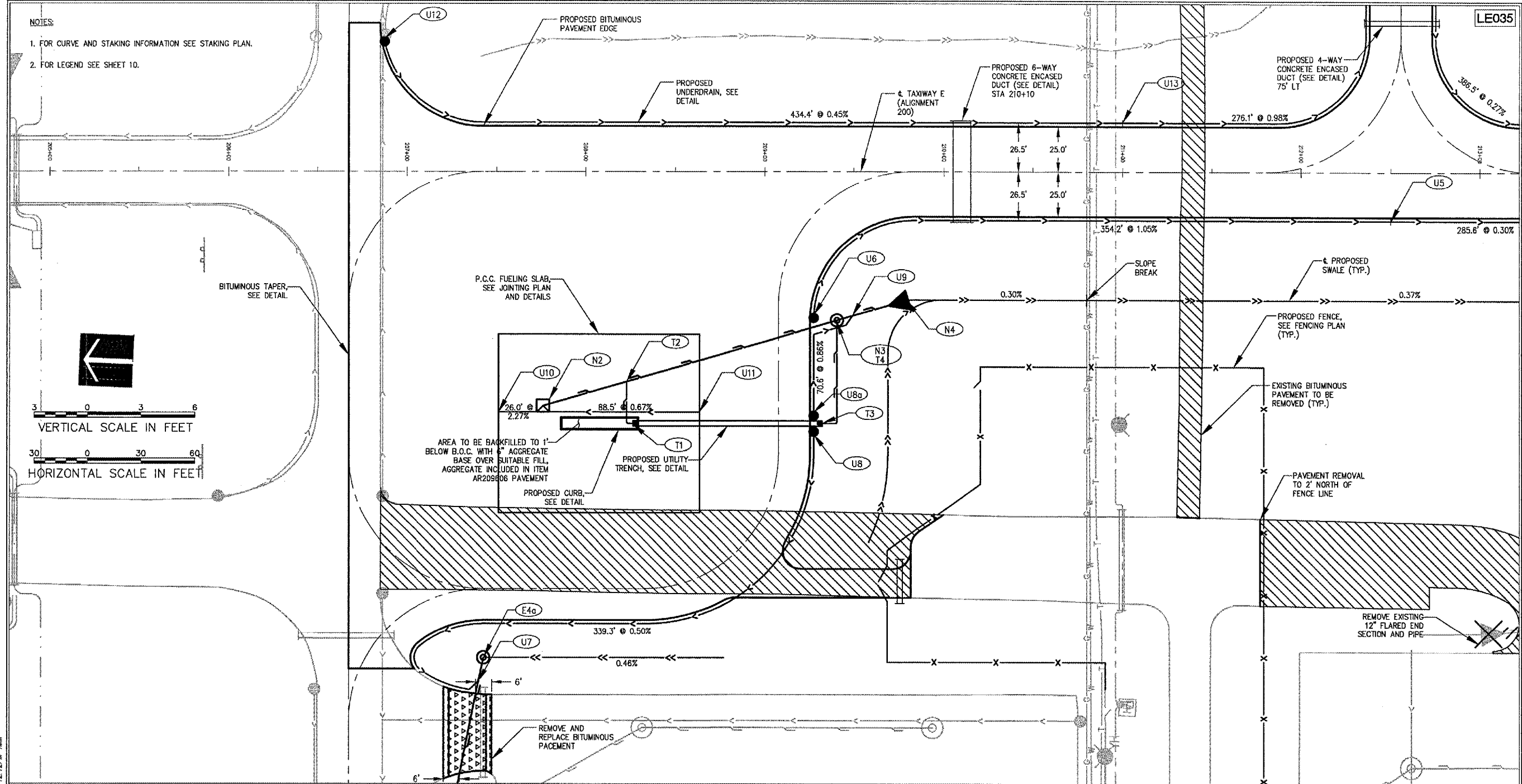
RMH 03/16/05
Reviewed By Date

LDH
Drawn By

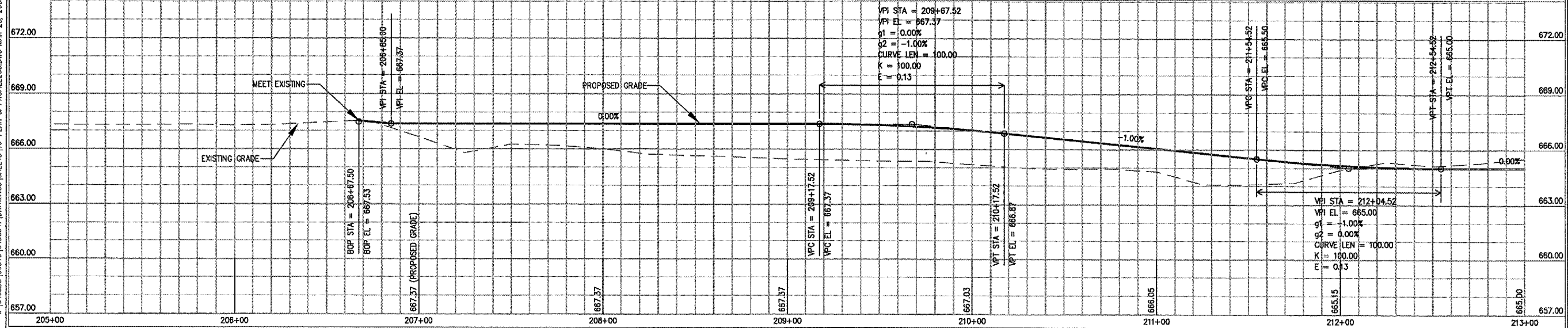
Sheet No.



- NOTES:
 1. FOR CURVE AND STAKING INFORMATION SEE STAKING PLAN.
 2. FOR LEGEND SEE SHEET 10.



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**EXTEND TAXIWAY E: CONSTRUCT
 GA APRON, AVGS FUELING APRON
 AND AUTO PARK 100**
 AIP PROJECT NO. 3-17-0140-B38
 IDA PROJECT NO. LOT-3441

No.	Drawing Issue Description	Date	By

Date: MARCH 25, 2005
 Sheet Title:

**PLAN AND PROFILE
 ALIGNMENT 200
 STA 205+00 TO STA 213+00**

840-04D8041
 Project Number
 LDH 02/17/05
 Layout By Date
 LDH/TMM 03/12/05
 Designed By Date
 RMH 03/16/05
 Reviewed By Date
 LDH
 Drawn By Sheet No.

LE035



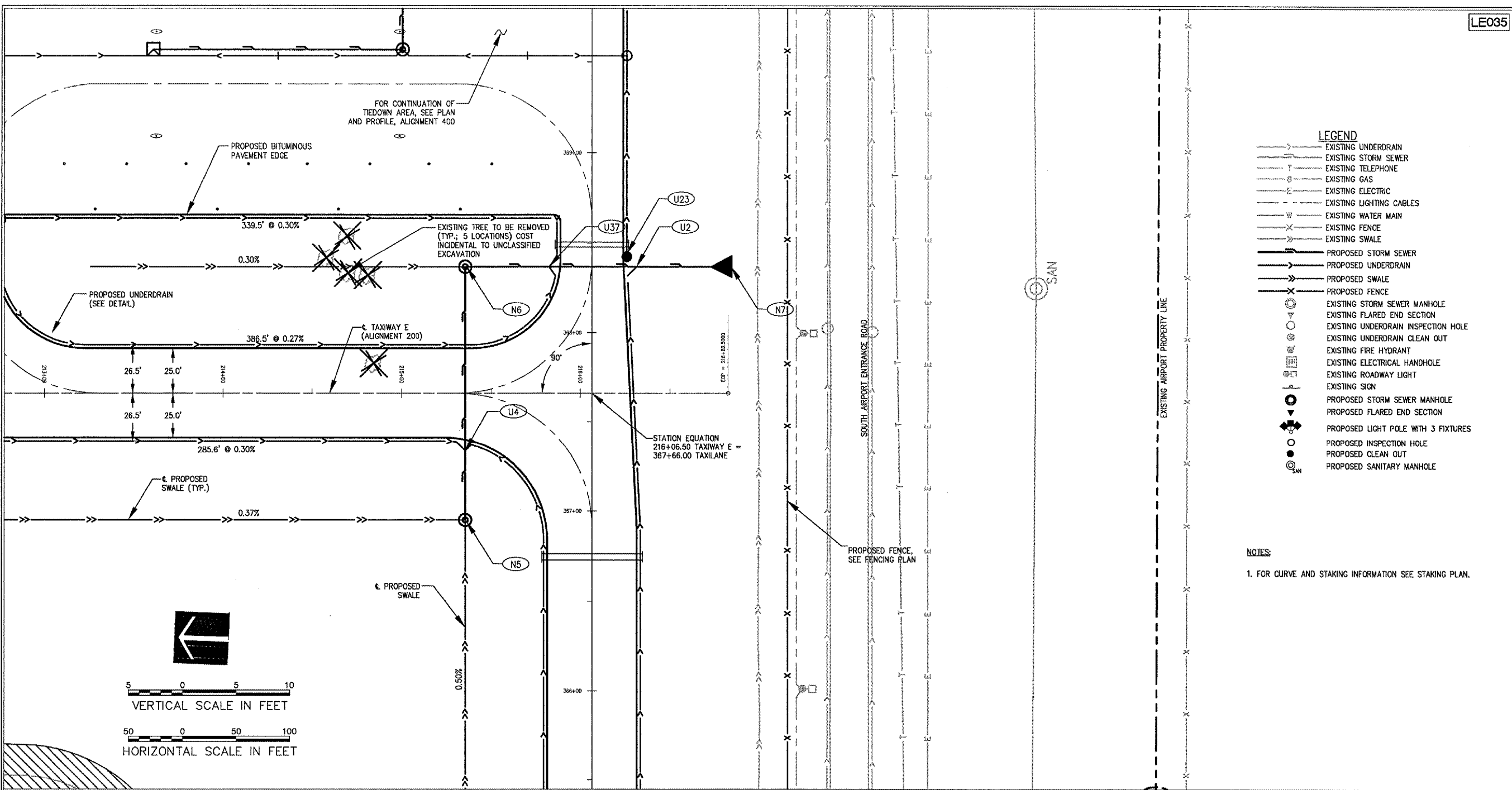
HANSON PROFESSIONAL SERVICES INC.
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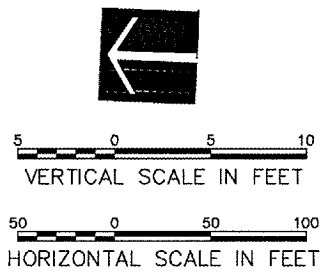
EXTEND TAXIWAY E: CONSTRUCT
GA APRON, AVGAS FUELING APRON
AND AUTO PARK 100

AIP PROJECT NO. 3-17-0140-B38
IDA PROJECT NO. LOT-3441

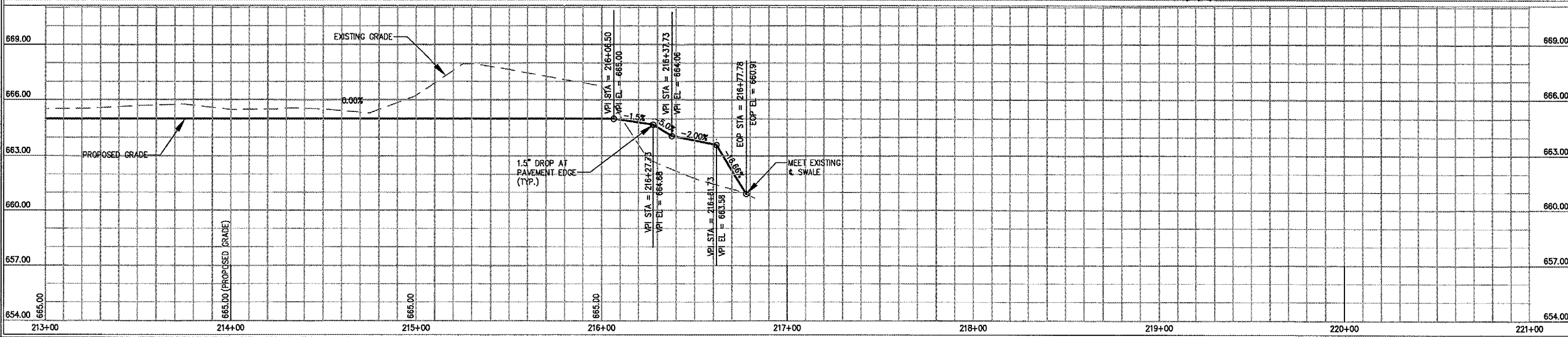


- LEGEND**
- > EXISTING UNDERDRAIN
 - > EXISTING STORM SEWER
 - > EXISTING TELEPHONE
 - > EXISTING GAS
 - > EXISTING ELECTRIC
 - > EXISTING LIGHTING CABLES
 - > EXISTING WATER MAIN
 - > EXISTING FENCE
 - > EXISTING SWALE
 - > PROPOSED STORM SEWER
 - > PROPOSED UNDERDRAIN
 - > PROPOSED SWALE
 - > PROPOSED FENCE
 - EXISTING STORM SEWER MANHOLE
 - EXISTING FLARED END SECTION
 - EXISTING UNDERDRAIN INSPECTION HOLE
 - EXISTING UNDERDRAIN CLEAN OUT
 - EXISTING FIRE HYDRANT
 - EXISTING ELECTRICAL HANDHOLE
 - EXISTING ROADWAY LIGHT
 - EXISTING SIGN
 - PROPOSED STORM SEWER MANHOLE
 - PROPOSED FLARED END SECTION
 - PROPOSED LIGHT POLE WITH 3 FIXTURES
 - PROPOSED INSPECTION HOLE
 - PROPOSED CLEAN OUT
 - PROPOSED SANITARY MANHOLE

NOTES:
1. FOR CURVE AND STAKING INFORMATION SEE STAKING PLAN.



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No.	Drawing Issue Description	Date	By

Date
MARCH 25, 2005
Sheet Title

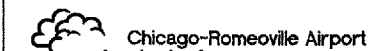
**PLAN AND PROFILE
ALIGNMENT 200
STA 213+00 TO STA 216+77.78**

840-0408041
Project Number
LDH 02/17/05
Layout By Date
LDH/TMM 03/12/05
Designed By Date
RMH 03/16/05
Reviewed By Date
LDH
Drawn By Sheet No.



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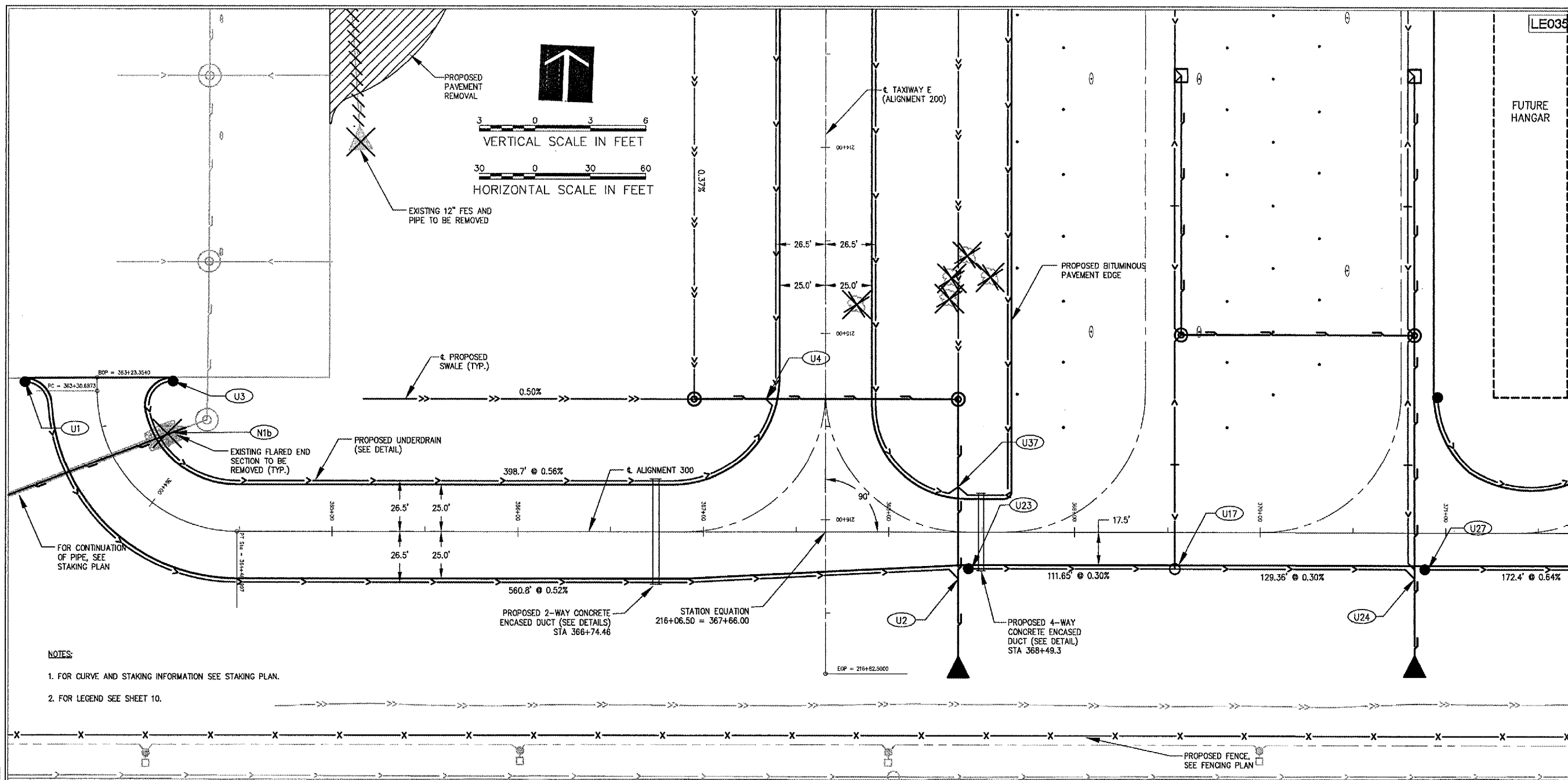


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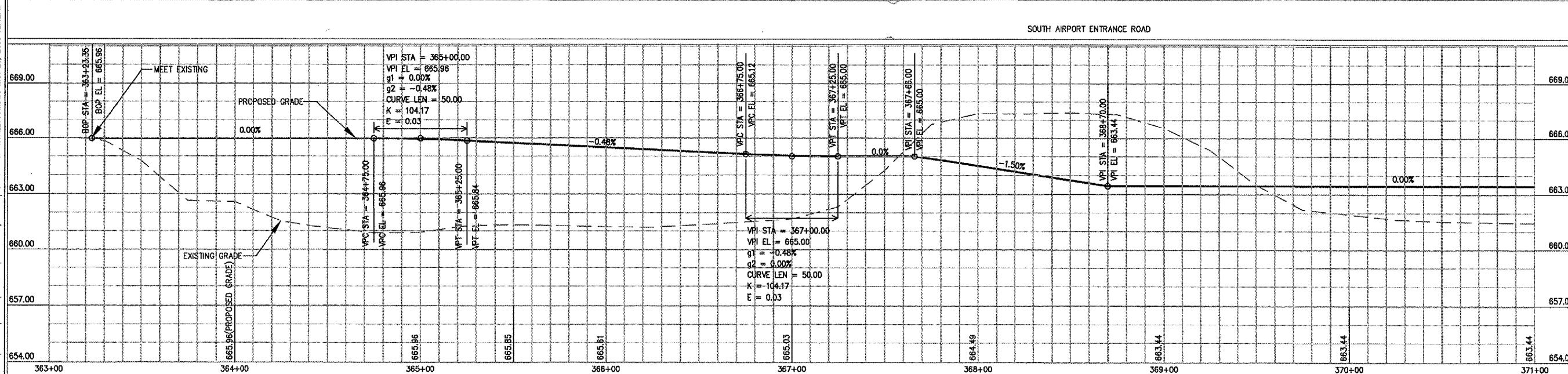
1 Hangar Road
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EXTEND TAXIWAY E; CONSTRUCT
GA APRON, AVGAS FUELING APRON
AND AUTO PARK 100

AIP PROJECT NO. 3-17-0140-B38
IDA PROJECT NO. LOT-3441



- NOTES:
1. FOR CURVE AND STAKING INFORMATION SEE STAKING PLAN.
 2. FOR LEGEND SEE SHEET 10.



No.	Drawing Issue Description	Date	By

Date: MARCH 25, 2005
 Sheet Title:

**PLAN AND PROFILE
 ALIGNMENT 300
 STA 363+23.35 TO
 STA 371+00**

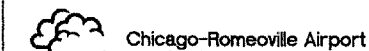
840-0408041
 Project Number
 LDH 02/17/05
 Layout By Date
 LDH/TMM 03/12/05
 Designed By Date
 RMH 03/16/05
 Reviewed By Date
 LDH
 Drawn By Sheet No.

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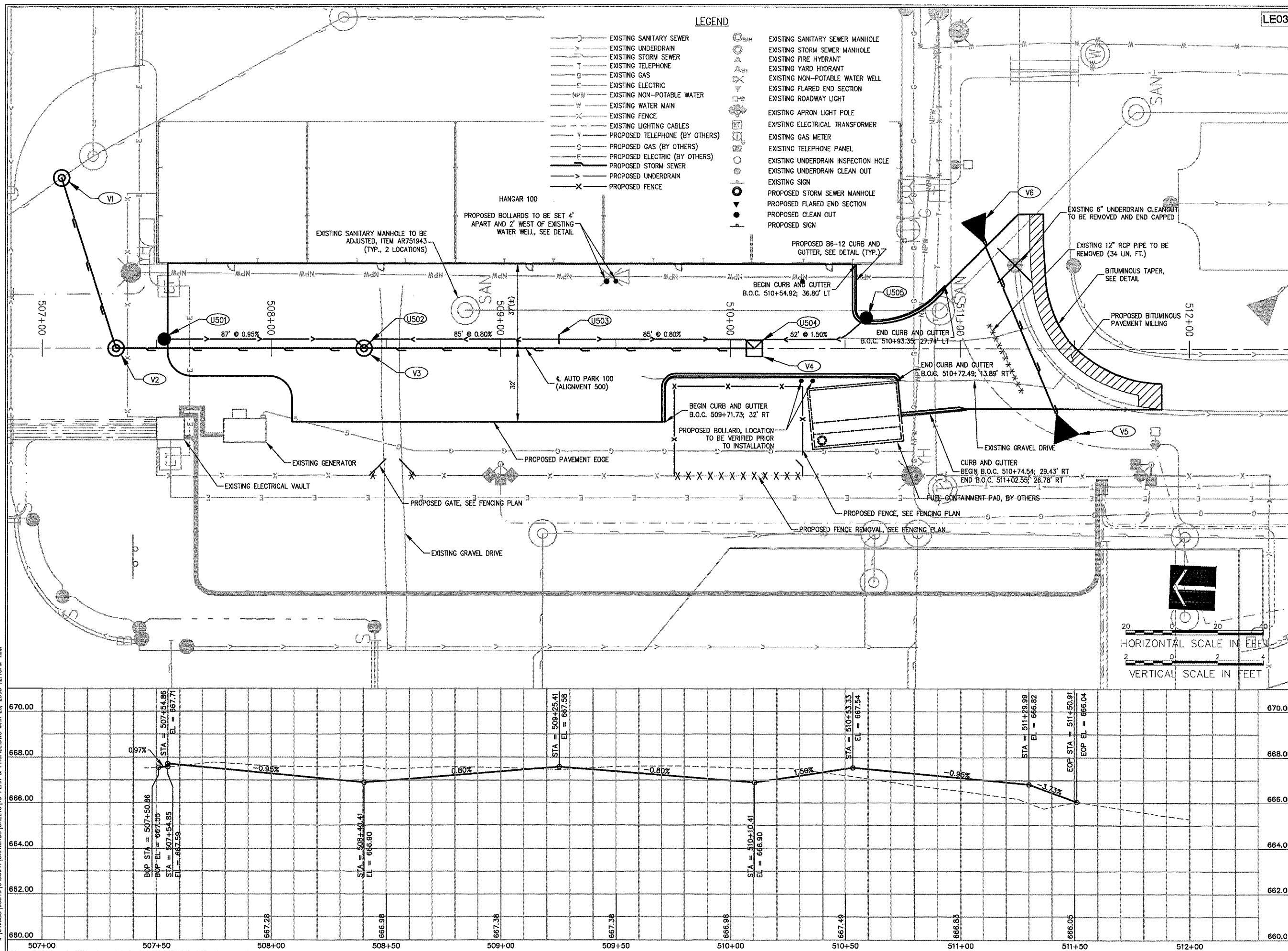


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AND AUTO PARK 100

AIP PROJECT NO. 3-17-0140-B38
IDA PROJECT NO. LOT-3441



No.	Drawing Issue Description	Date	By

Date: MARCH 25, 2005
 Sheet Title: PLAN AND PROFILE ALIGNMENT 500

**PLAN AND PROFILE
ALIGNMENT 500**

840-04D8041	
Project Number	
TMM	03/02/05
LAYOUT BY	
DESIGNED BY	
RMH	03/07/05
REVIEWED BY	
TMM	
DRAWN BY	

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EXTEND TAXWAY E; CONSTRUCT
 GA APRON, AVGAS FUELING APRON
 AND AUTO PARK 100

AIP PROJECT NO. 3-17-0140-B38
 IDA PROJECT NO. LOT-3441

UNDERDRAIN SCHEDULE

Structure	Station	Offset	Type	Rim El.	Invert El.	Pay Length	Slope %
U1	363+18.67	67.08 RT	Clean Out	666.02	E 663.85		
U2	368+37.00	19.70 RT	RCP Connection	--	660.94	560.8	0.52
U3	363+18.30	72.63 LT	Clean Out	665.82	W 663.63	398.7	0.56
U4	215+35.50	28.20 RT	RCP Connection	--	661.40	285.6	0.30
U5	212+50.00	27.00 RT	Slope Break	--	662.25	354.2	1.05
U6	209+27.50	81.12 RT	Clean Out	667.87	665.97		
U7	207+38.67	290.13 RT	RCP Connection	--	664.43	342.5	0.50
U8	209+27.50	144.75 RT	Clean Out	667.87	666.13		
U8a	209+27.50	135.75 RT	Clean Out	667.87	665.87	70.6	0.89
U9	209+27.52	90.22 RT	RCP Connection	--	665.50		
U10	207+51.00	133.76 RT	High Point	668.80	666.80	26.0	2.27
N2	201+76.00	130.26 RT	Inlet	668.21	666.21	88.5	0.67
U11	208+63.50	133.76 RT	High Point	668.80	666.80		
U12	206+87.52	72.19 LT	Clean Out	667.20	665.62	434.4	0.45
U13	211+00.00	27.00 LT	Slope Break	--	663.66	276.1	0.98
U14	212+35.00	187.69 LT	Inspection Hole	662.96	660.95	126.2	0.36
N10	213+61.14	191.19 LT	Inlet	662.99	660.49	71.6	1.41
U15	214+30.80	187.98 LT	Slope Break	--	661.50	69.6	0.73
N11	215+00.46	191.19 LT	Manhole Connection	662.99	660.99	69.8	1.45
U16	215+70.30	187.89 LT	Slope Break	--	662.00	55.1	1.74
U17	216+26.00	187.96 LT	Inspection Hole	662.96	661.04		
U18	211+71.24	288.68 LT	Clean Out	665.78	663.87 (U18 to U14)	178.2	1.64
U19	211+70.79	332.70 LT	Clean Out	665.78	663.87	201.5	1.43
N12	213+61.14	317.06 LT	Inlet	662.99	660.99	71.6	0.71
U20	214+30.80	313.73 LT	Slope Break	--	661.50	69.6	0.73
N13	215+00.46	317.06 LT	Manhole Connection	662.99	660.99	69.3	0.82
U21	215+70.30	313.68 LT	Slope Break	--	661.56	57.9	0.97
U22	216+26.08	317.05 LT	RCP Connection	--	661.00		
U23	216+26.00	76.50 LT	Clean Out	663.37	661.37	111.7	0.30
U17	216+26.00	187.96 LT	Inspection Hole	--	661.04	129.4	0.30
U24	216+26.00	317.05 LT	RCP Connection	--	660.65		

UNDERDRAIN SCHEDULE CONTINUED

Structure	Station	Offset	Type	Rim El.	Invert El.	Pay Length	Slope %
U25	215+34.00	329.55 LT	Clean Out	662.95	660.95	129.8	0.31
U26	215+59.06	423.33 LT	RCP Connection	--	660.55		
U27	216+26.00	322.55 LT	Clean Out	662.95	660.95	172.4	0.64
U28	216+26.00	494.99 LT	RCP Connection	--	659.85		
U29	412+35.00	3.50 RT	Clean Out	663.23	661.23	78.0	0.71
N15	413+12.00	0.00 LT	Inlet	662.80	660.68	75.0	1.03
U30	413+86	3.50 RT	Slope Break	--	661.45	173.1	0.59
U31	415+59.07	3.50 RT	RCP Connection	--	660.43		
U32	373+95.43	19.50 LT	Clean Out	662.95	660.95	129.3	0.39
U33	372+42.93	47.42 LT	RCP Connection	--	660.45		
U34	376+95.31	19.50 RT	Clean Out	663.23	661.24	469.1	0.30
U35	372+06.99	19.50 RT	RCP Connection	662.95	659.85		
U36	212+76.07	98.00 LT	Inspection Hole	663.50	661.50 West East	386.5 339.5	0.27 0.31
U37	215+85.15	71.00 LT	RCP Connection	--	660.45		
U501	507+53.36	4.00 LT	Clean Out	667.61	665.48	87.0	0.95
U502	508+40.41	CL	Manhole Connection	--	664.65	85.0	0.80
U503	509+25.41	4.00 LT	Slope Break	--	665.33	85.0	0.80
U504	510+10.41	CL	Manhole Connection	--	664.65	52.0	1.50
U505	510+59.33	13.58 LT	Clean Out	667.98	665.43		

NOTES

1. WHERE UNDERDRAIN INVERTS AT R.C.P. CONNECTIONS ARE ABOVE THE TOP OF THE R.C.P. THE LAST 5' OF THE UNDERDRAIN IS TO BE ANGLED USING A BEND AS NECESSARY TO CONNECT INTO THE TOP HALF OF THE PIPE.

No.	Drawing Issue Description	Date	By

Date
 MARCH 25, 2005
 Sheet Title

UNDERDRAIN SCHEDULE

840-04D8041
 Project Number
 LDH 03/08/05
 Layout By Date
 LDH/TMM 03/08/05
 Designed By Date
 RMH 03/15/05
 Reviewed By Date
 LDH
 Drawn By Sheet No.

A: [04] [085] [02840] [0408041] [DRAWINGS] [SCHEDULE] [DWC] [MAR 28, 2005 12:13PM] [TMM]



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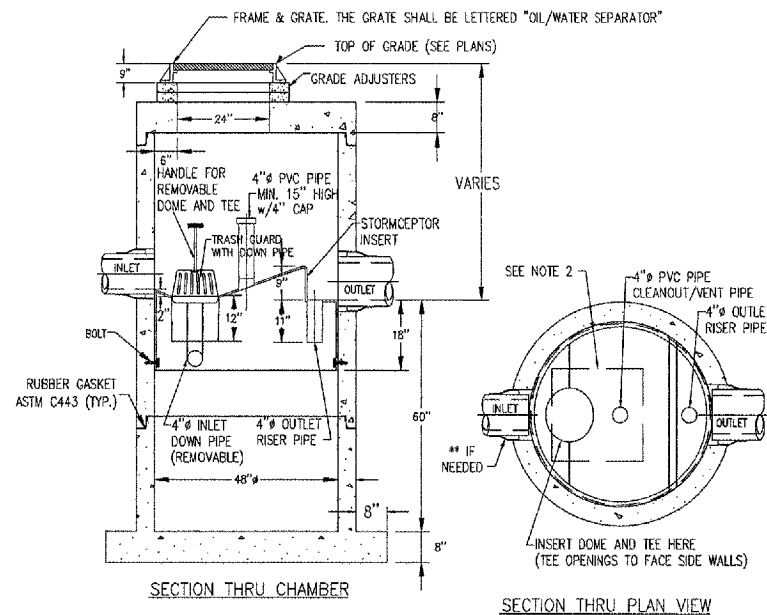


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EXTEND TAXIWAY E: CONSTRUCT
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AND AUTO PARK 100

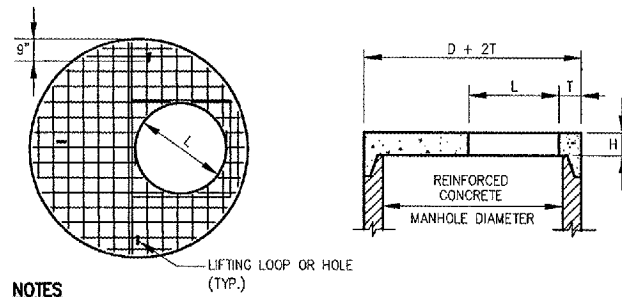
AIP PROJECT NO. 3-17-0140-B38
IDA PROJECT NO. LOT-3441



NOTE:

1. THE USE OF FLEXIBLE CONNECTIONS IS RECOMMENDED AT THE OUTLET WHERE APPLICABLE.
2. THE COVER SHOULD BE POSITIONED OVER THE 4" Ø CLEANOUT/VENT PIPE AND THE 4" Ø INLET DOWN PIPE.
3. THE STORMCEPTOR SYSTEM IS PROTECTED BY ONE OR MORE OFF THE FOLLOWING U.S. PATENTS: #4985148, #5498331, #5725760, #5753115, #5849181.
4. CONTRACTOR TO PROVIDE CRANE TO SET UNIT (HEAVIEST SECTION WEIGHS 5000 LB)

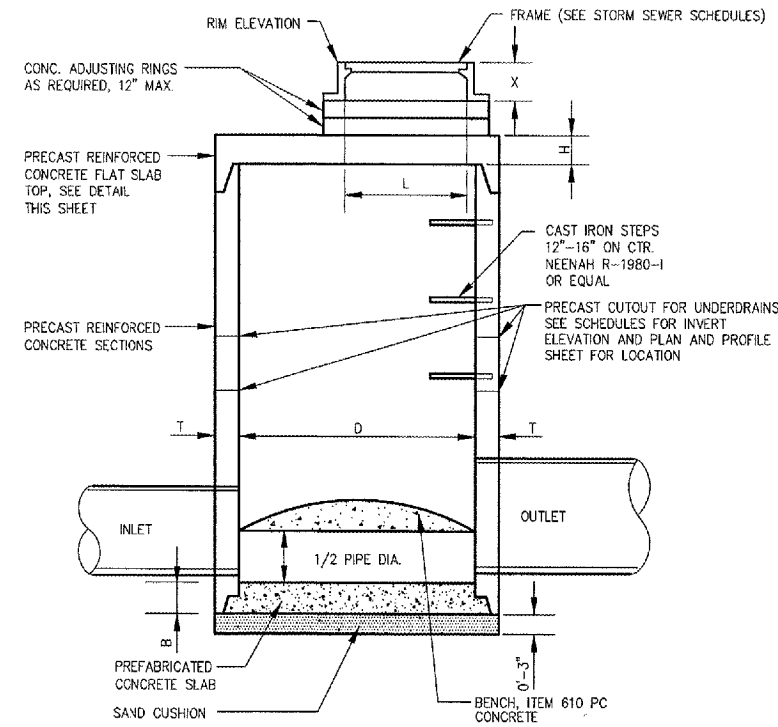
OIL/WATER SEPARATOR MANHOLE
STORMCEPTOR MODEL 450I (450 US GALLON CAPACITY)



NOTES

1. ADDITIONAL TOP AND BOTTOM BARS PLACED ADJACENT TO ACCESS HOLE.
2. MINIMUM 1" COVER ON STEEL BARS.
3. THREE LIFTING LOOPS OR HOLES.
4. MINIMUM STEEL REINFORCEMENT IN EACH DIRECTION TO BE WWF 1.06 SQ. IN./FT. IN ACCORDANCE WITH AASHTO M199 AND IDOT STANDARDS.
5. FOR "L" DIMENSION SEE STORM SEWER SCHEDULES.

PRECAST REINFORCED CONCRETE FLAT SLAB TOP (IDOT STANDARD 602601)



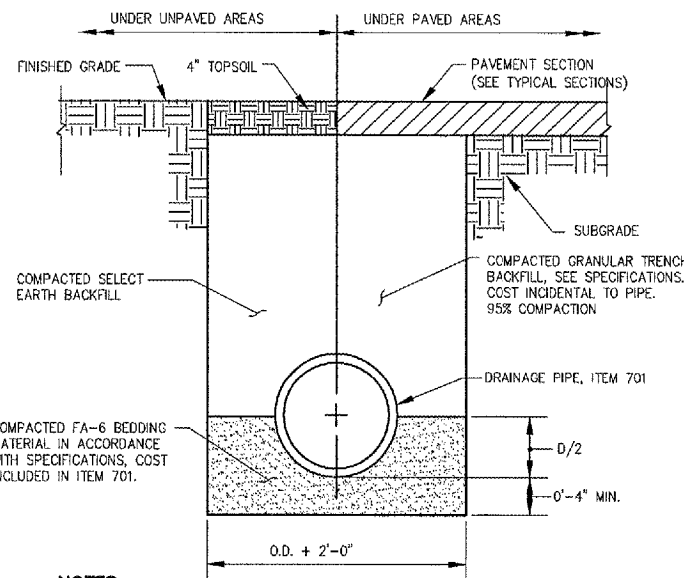
MANHOLE DATA

INSIDE DIA. "D" (IN.)	WALL THICKNESS "T" (IN.)	TOP THICKNESS "H" (IN.)	BOTTOM THICKNESS "B" (IN.)
48	5	6	6
60	5	8	8
72	6	8	8
84	7	8	8

NOTES

1. FOR FRAME AND LID INFORMATION SEE STORM SEWER SCHEDULES.
2. CENTER OF FRAME TO BE USED FOR LOCATING STRUCTURE. FOR STRUCTURE LOCATIONS AND ADDITIONAL INFORMATION SEE SCHEDULE.
3. ALL STRUCTURES TO BE PRECAST REINFORCED CONCRETE SECTIONS; BENCHES MAY BE CAST IN PLACE.
4. BLOCKOUTS FOR UNDERDRAIN CONNECTIONS SHALL BE PRECAST INTO THE STRUCTURE.

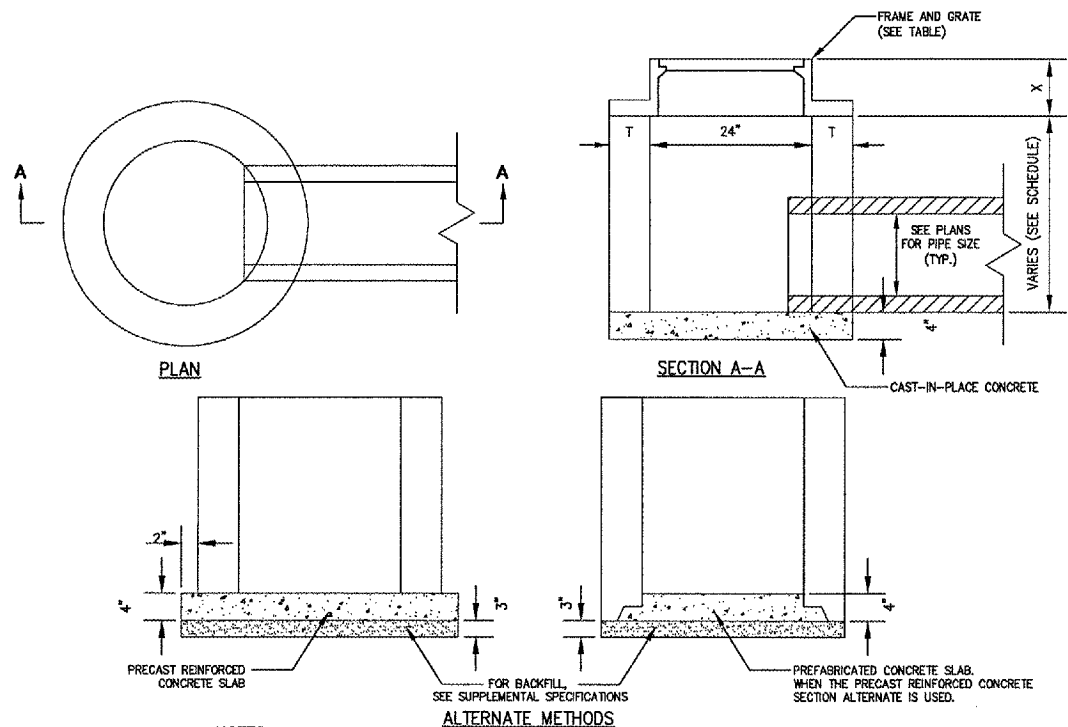
MANHOLE WITH FLAT SLAB TOP (IDOT STANDARD 602406-MODIFIED)



NOTES

1. UNSUITABLE MATERIAL ENCOUNTERED DURING PLACEMENT OF BEDDING SHALL BE REMOVED AND REPLACED.
2. WITHIN 3 FEET OF PAVED AREA, GRANULAR BACKFILL IS TO BE USED INSTEAD OF EARTH BACKFILL.
3. AT CONTRACTOR'S OPTION IDOT CONTROLLED LOW STRENGTH MATERIAL WITH A HIGH EARLY STRENGTH, "FLASH FILL", MAY BE USED INSTEAD OF GRANULAR TRENCH BACKFILL UNDER PAVEMENTS.

PIPE TRENCH



ALTERNATE METHODS

NOTES

1. SEE DRAINAGE AND UNDERDRAIN SCHEDULE FOR LOCATION, SIZE AND NUMBER OF PIPE CONNECTIONS.
2. INLETS TO BE PRECAST REINFORCED CONCRETE SECTIONS (T = 3").

INLET TYPE A (IDOT STANDARD 602301)

No.	Drawing Issue Description	Date	By

Date
MARCH 25, 2005
Sheet Title

DRAINAGE DETAILS

840-048041
Project Number
LDH 02/23/05
Layout By Date
LDH/TMM 02/23/05
Designed By Date
RMH 03/15/05
Reviewed By Date
LDH | TMM | ---
Drawn By Sheet No.

DETAILS SHOWN ARE NOT TO SCALE

P:\04\025\02840\048004\DRAWINGS\SHEETS\18-DRAINAGE DETAILS.DWG MAR 28, 2005 12:13PM TMM



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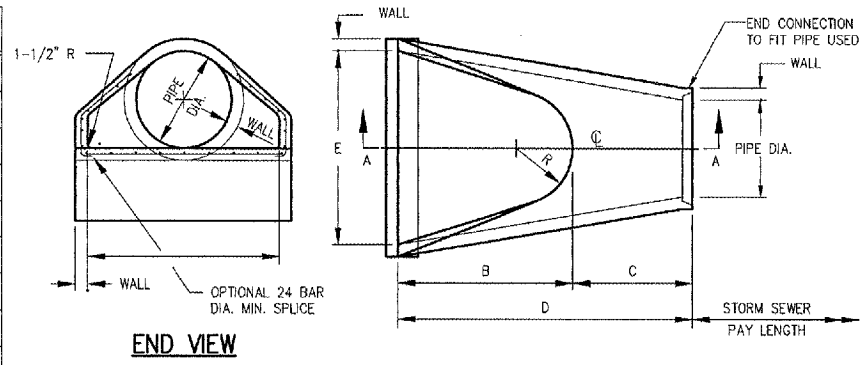
JOLIET REGIONAL PORT DISTRICT

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EXTEND TAXIWAY E; CONSTRUCT
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AND AUTO PARK 100

AIP PROJECT NO. 3-17-0140-B38
IDA PROJECT NO. LOT-3441

PIPE DIA.	WALL	A	B	C	D	E	R	SLOPE
12"	2"	4"	2'-0"	4'-0 7/8"	6'-0 7/8"	2'-0"	9"	3:1
15"	2 1/4"	6"	2'-3"	3'-10"	6'-1"	2'-6"	11"	3:1
18"	2 1/2"	9"	2'-3"	3'-10"	6'-1"	3'-0"	12"	3:1
21"	2 3/4"	9"	2'-11"	3'-2"	6'-1"	3'-6"	13"	3:1
24"	3"	9 1/2"	3'-7 1/2"	2'-6"	6'-1 1/2"	4'-0"	14"	3:1
27"	3 1/4"	10 1/2"	4'-0"	2'-1 1/2"	6'-1 1/2"	4'-6"	14 1/2"	3:1
30"	3 1/2"	1'-0"	4'-6 1/2"	1'-7 3/4"	6'-1 3/4"	5'-0"	15"	3:1
33"	3 3/4"	1'-1 1/2"	4'-10 1/2"	3'-3 1/4"	8'-1 3/4"	5'-6"	17 1/2"	3:1
36"	4"	1'-3"	5'-3"	2'-10 3/4"	8'-1 3/4"	6'-0"	20"	3:1
42"	4 1/2"	1'-9"	5'-3"	2'-11"	8'-2"	6'-6"	22"	3:1
48"	5"	2'-0"	6'-0"	2'-2"	8'-2"	7'-0"	22"	3:1
54"	5 1/2"	2'-3"	5'-5"	2'-11"	8'-4"	7'-6"	24"	2.4:1

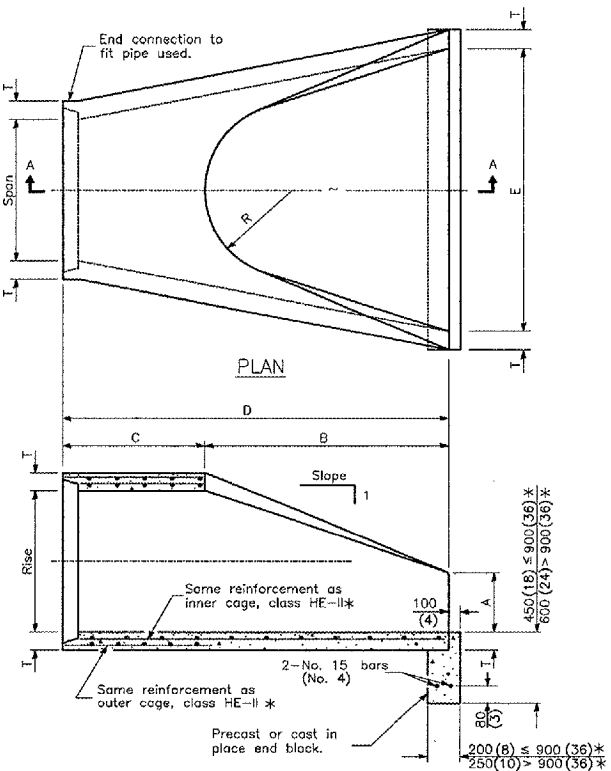


DIA. INCHES	V-BAR SIZE	H-BAR SIZE	No. OF H-BARS REQ'D.	BOLT DIA.	
				INCHES	
12	1/2#	5/8#	3	1/2	4
15	1/2#	5/8#	3	1/2	4 1/2
18	1/2#	5/8#	4	1/2	4 1/2
21	1/2#	5/8#	4	1/2	5
24	5/8#	3/4#	4	1/2	5
27	5/8#	3/4#	4	1/2	5 1/2
30	5/8#	3/4#	4	1/2	5 1/2
36	3/4#	1#	4	3/4	8
42	3/4#	1#	4	3/4	8
48	3/4#	1#	5	3/4	8
54	3/4#	1-1/2 PIPE	5	3/4	8
24 X 38 ELLIPTICAL	3/4#	1#	5	3/4	8

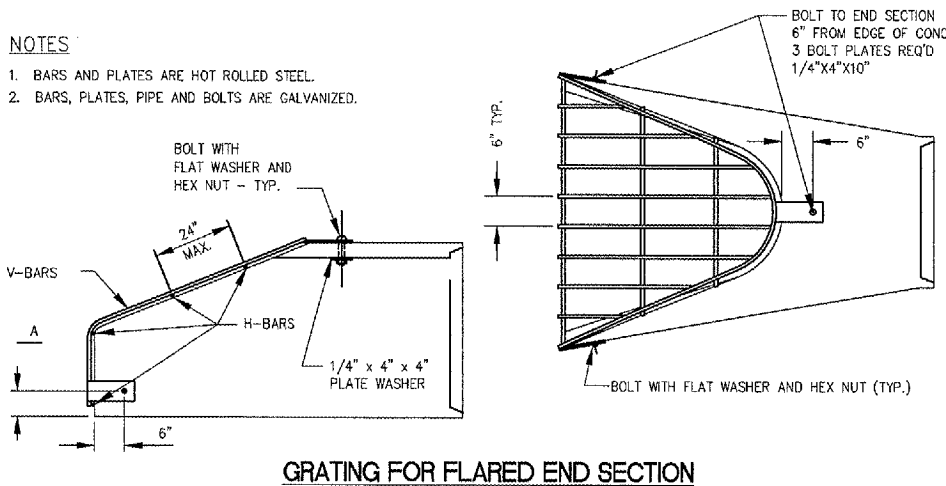
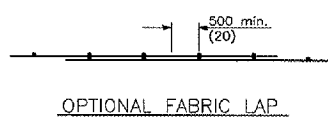
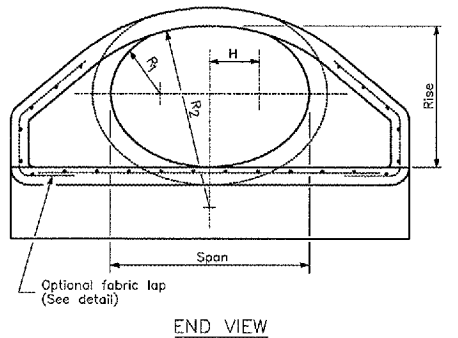
- NOTES**
- GRATING SHALL BE PAID FOR UNDER ITEM AR752518.
 - THE END BLOCK SHALL BE PLACED PRIOR TO THE INSTALLATION OF THE FLARED END SECTION. THE END BLOCK SHALL BE BACKFILLED IN ACCORDANCE WITH ARTICLE 502.10 OF IDOT SPECIFICATIONS, WITH COST INCIDENTAL TO FLARED END SECTION.
 - PRECAST CONCRETE FLARED END SECTIONS SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF AASHTO M-170 CLASS III, WALL B REINFORCED CONCRETE PIPE.

* 8" - 36" DIA. PIPE OR LESS
10" - GREATER THAN 36" DIA. PIPE
** 18" - 36" DIA. PIPE OR LESS
24" - GREATER THAN 36" DIA. PIPE
2 - NO. 4 BARS

PRECAST CONCRETE FLARED END SECTION
(IDOT STANDARD 542301)



SPAN	RISE	EQUIV. DIA.	WALL T	A	B	C	D	E	H	R	R ₁	R ₂	APPROX. SLOPE
985 (38)	610 (24)	750 (30)	95 (3 3/4)	241 (9 1/2)	1,372 m (4'-6")	457 (18)	1,829 m (6'-0")	1,524 m (5'-0")	219 (8 5/8)	229 (9)	260 (10 1/4)	832 (32 3/4)	1:2.9



GRATING FOR FLARED END SECTION

* Refers to the equivalent pipe diameter.

GENERAL NOTES

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

All dimensions are in millimeters (inches) unless otherwise shown.

PRECAST CONCRETE ELLIPTICAL FLARED END SECTION
(IDOT STANDARD 542306)

DETAILS SHOWN ARE NOT TO SCALE

No.	Drawing Issue Description	Date	By

Date
MARCH 25, 2005
Sheet Title

DRAINAGE DETAILS

840-04D8041
Project Number
LDH 02/23/05
Layout By Date
LDH/TMM 02/23/05
Designed By Date
RMH 03/15/05
Reviewed By Date
LDH | TMM | ---
Drawn By Sheet No.

I:\04-035\03940\0403041\DRAWINGS\SHEETS\19-DRAINAGE\DETAILS.DWG MAR 28, 2005 12:13PM TMM



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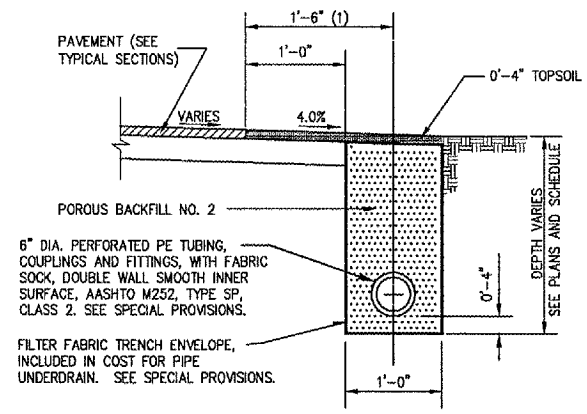


JOLIET REGIONAL PORT DISTRICT

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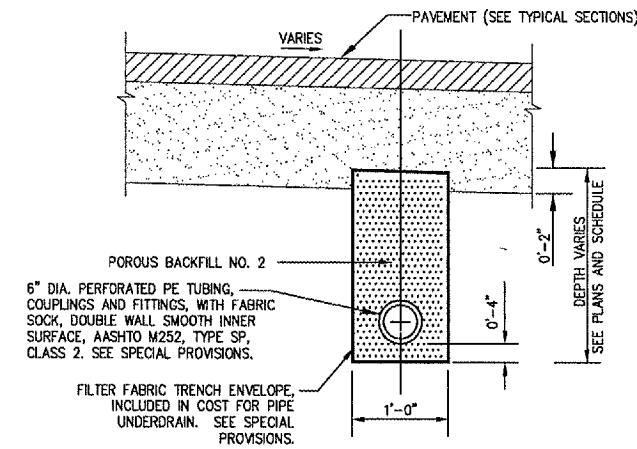
EXTEND TAXIWAY E: CONSTRUCT
GA APRON, AVGAS FUELING APRON
AND AUTO PARK 100

AIP PROJECT NO. 3-17-0140-B38
IDA PROJECT NO. LOT-3441



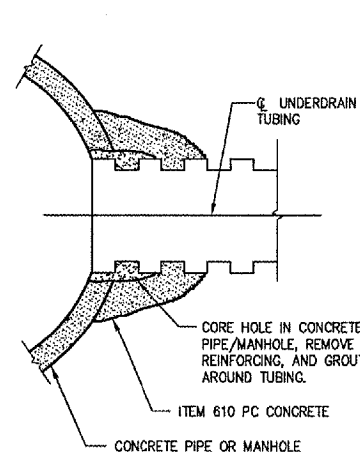
NOTE:
1. WHEN THE UNDERDRAIN IS ADJACENT TO CURB AND GUTTER IT IS TO BE CENTERED 6" BEHIND THE BACK OF CURB.

UNDERDRAIN ALONG PAVEMENT EDGE

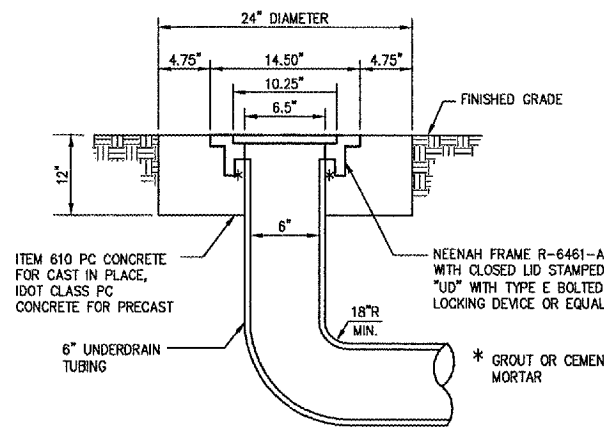


NOTE:
1. WHEN THE UNDERDRAIN IS ADJACENT TO CURB AND GUTTER IT IS TO BE CENTERED 6" BEHIND THE BACK OF CURB.

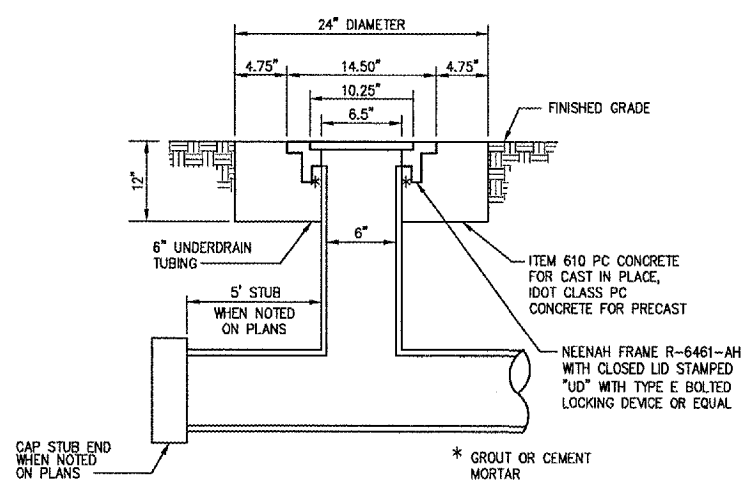
UNDERDRAIN UNDER PAVEMENT



STORM SEWER CONCRETE COLLAR AND GROUT CONNECTION



UNDERDRAIN CLEANOUT



UNDERDRAIN INSPECTION HOLE

No.	Drawing Issue Description	Date	By

Date
MARCH 25, 2005
Sheet Title

UNDERDRAIN DETAILS

840-0408041
Project Number
LDH 02/23/05
Layout By Date
LDH/TMM 02/23/05
Designed By Date
RMH 03/15/05
Reviewed By Date
LDH | TMM | ---
Drawn By Sheet No.

DETAILS SHOWN ARE NOT TO SCALE

A:\04\035\100840\0408041\0408041\DRAWINGS\SHEET\10-DRAINAGE DETAILS.DWG MAR 28, 2005 12:13PM TMM



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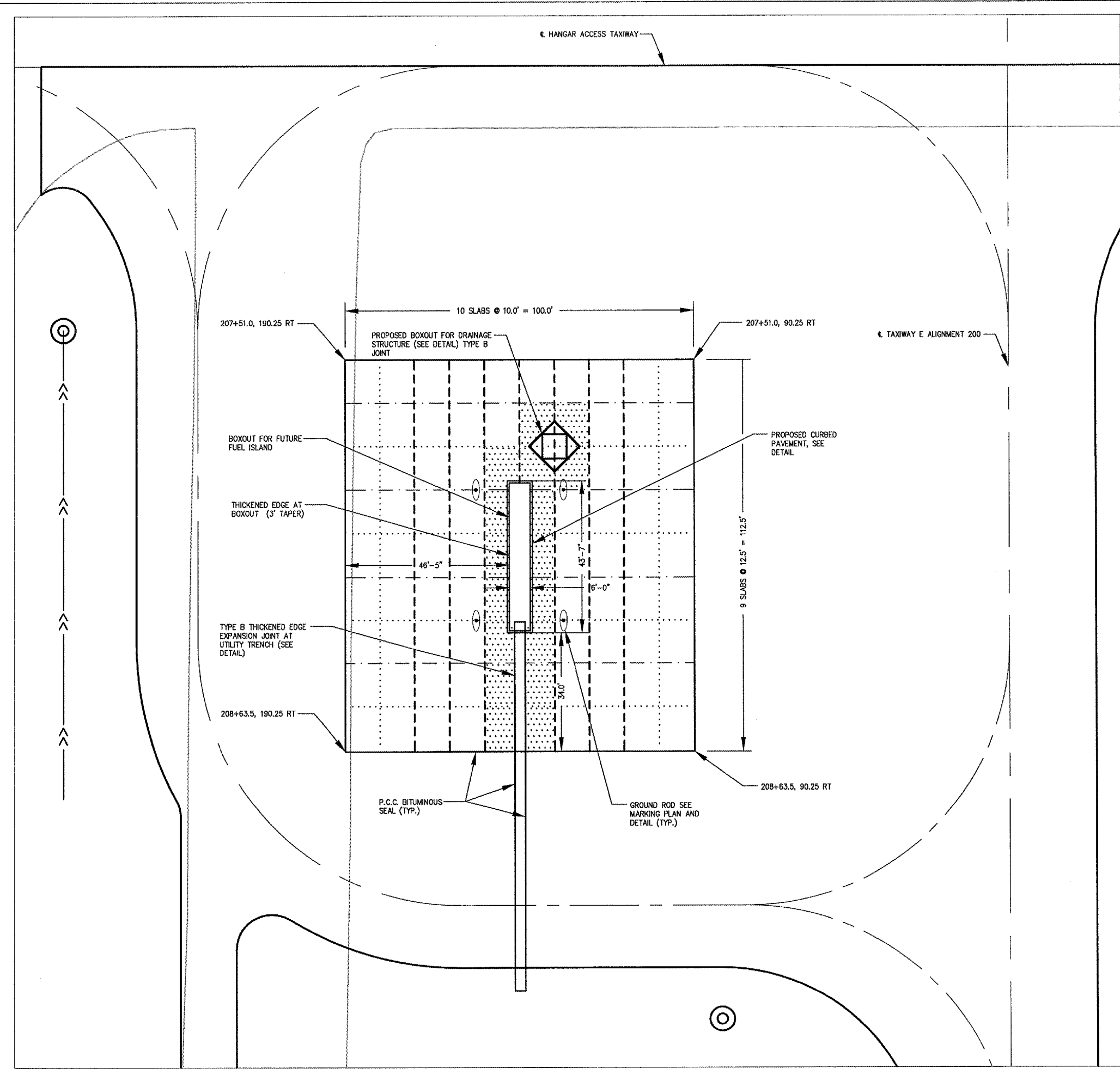
**EXTEND TAXIWAY E: CONSTRUCT
 GA APRON, AVGAS FUELING APRON
 AND AUTO PARK 100**
 AIP PROJECT NO. 3-17-0140-B38
 IDA PROJECT NO. LOT-3441

NOTES

1. ALL WELDED WIRE FABRIC TO BE 6" X 6" - W2.9 X W2.9, WITH 65,000 PSI YIELD STRENGTH. WIRE SIZE AND SPACING MAY BE ALTERED AS LONG AS THE SECTIONAL AREA IS A MINIMUM OF 0.058 SQUARE INCHES PER FOOT WITH A 12" MAXIMUM WIRE SPACING.
2. EDGE SPACING FOR THE WELDED WIRE FABRIC TO BE THREE (3) INCHES. A MINIMUM OF THREE (3) WIRES ARE TO BE PROVIDED IN ANY ONE DIRECTION IN EACH SLAB.
3. WELDED WIRE FABRIC, JOINT REINFORCING, JOINT EXPANSION MATERIAL AND JOINT SAWING AND SEALING ARE INCIDENTAL TO P.C.C. PAVEMENT.
4. ALL CONSTRUCTION JOINTS TO BE TYPE E HINGED KEYED JOINTS

- PROPOSED THICKENED EDGE EXPANSION JOINT - TYPE B
- - - - PROPOSED HINGED-KEYED CONSTRUCTION JOINT - TYPE E
- PROPOSED HINGED CONTRACTION JOINT - TYPE G
- PROPOSED SAWED CONTRACTION JOINT - TYPE H

REINFORCED SLAB (SEE NOTES)

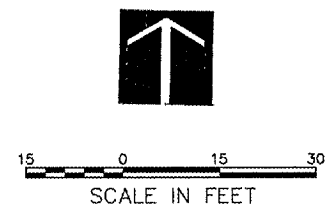


No.	Drawing Issue Description	Date	By

Date
 MARCH 25, 2005
 Sheet Title

**AVGAS APRON
 P.C.C. JOINTING PLAN**

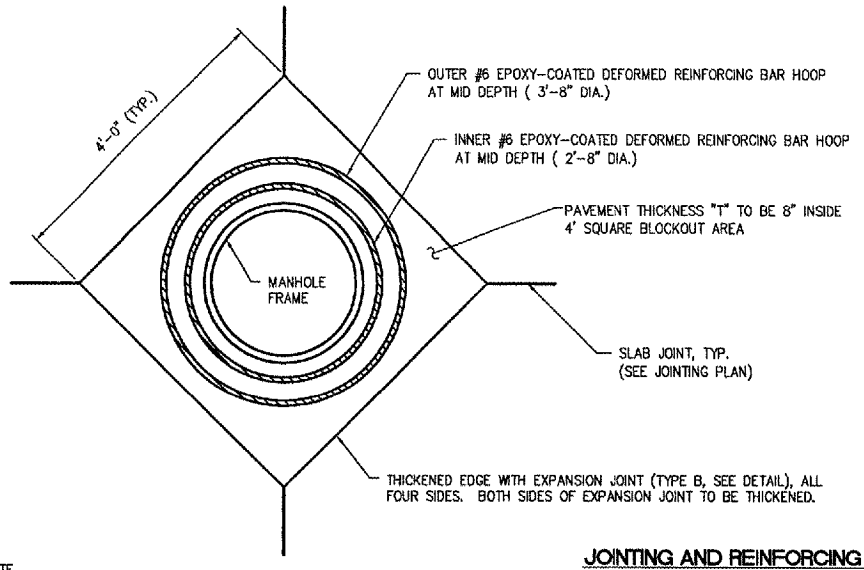
840-04D8041
 Project Number
 LDH 01/21/05
 Layout By Date
 LDH/TMM 2/15/05
 Designed By Date
 RMH 03/16/05
 Reviewed By Date
 LDH
 Drawn By



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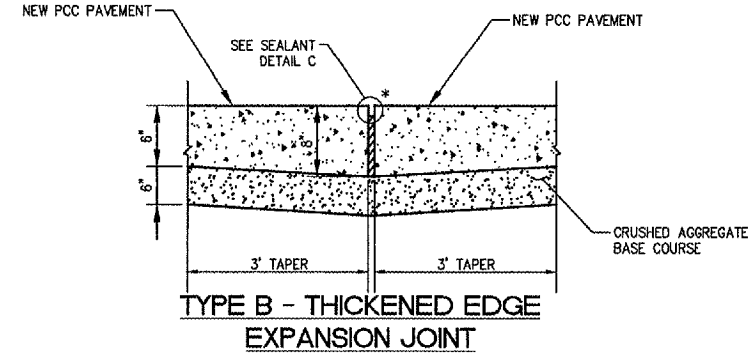
GENERAL NOTES

1. REINFORCEMENT, EXPANSION MATERIAL, SAW CUTTING AND SEALING OF JOINTS IS INCIDENTAL TO P.C.C. PAVEMENT AND BITUMINOUS PAVEMENT.
2. PAVEMENT THICKNESS "T" TO BE 6 INCHES, EXCEPT WHERE NOTED OTHERWISE.
3. CURING AND FINAL FINISH SHALL BE COMPLETED IN ACCORDANCE WITH THE SPECIFICATIONS.

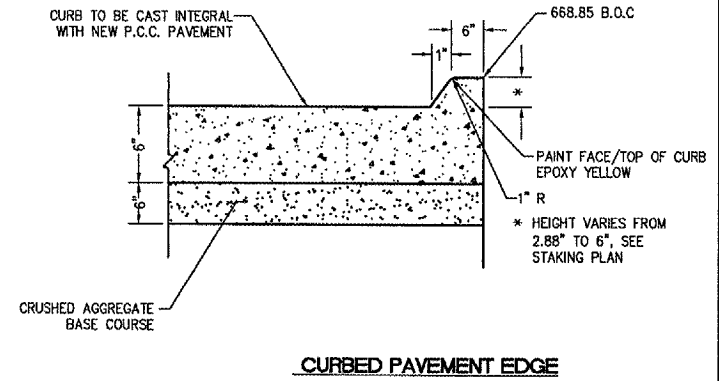


FRAMING NOTES

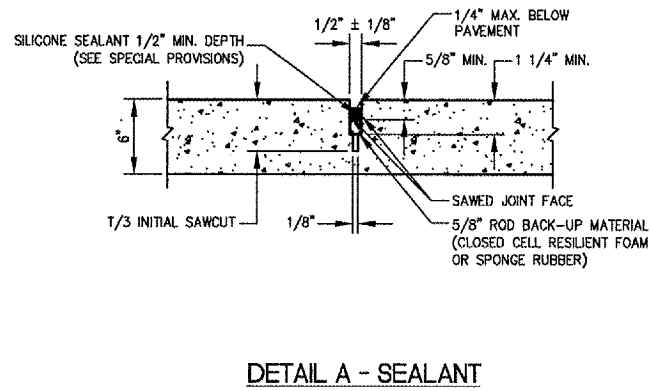
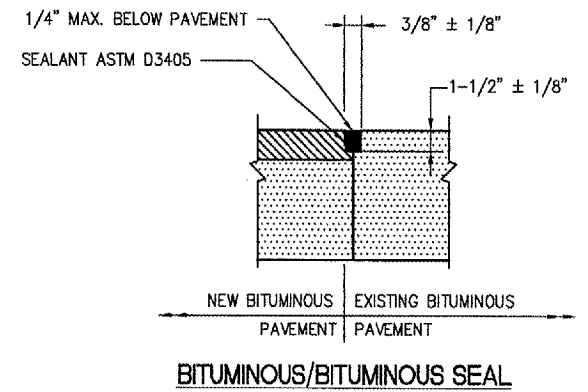
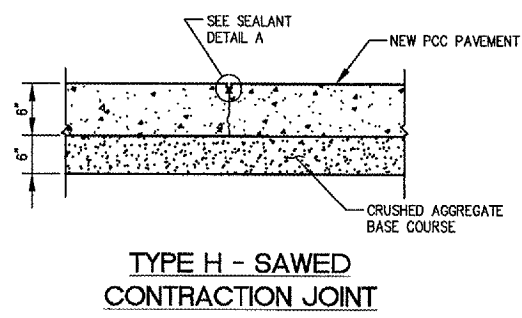
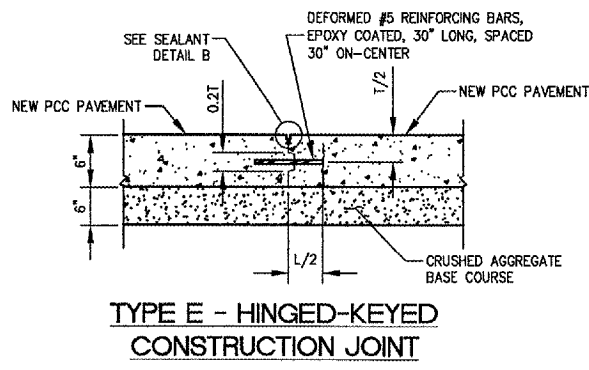
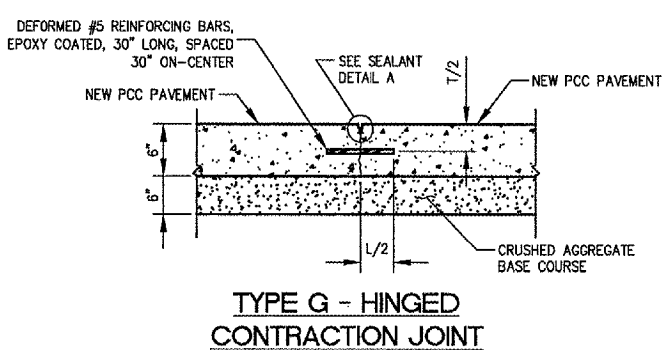
1. HOOP REINFORCEMENT REQUIRED AND SHALL BE ONE PIECE CONSTRUCTION HAVING A MINIMUM LAP LENGTH OF 2'-0".



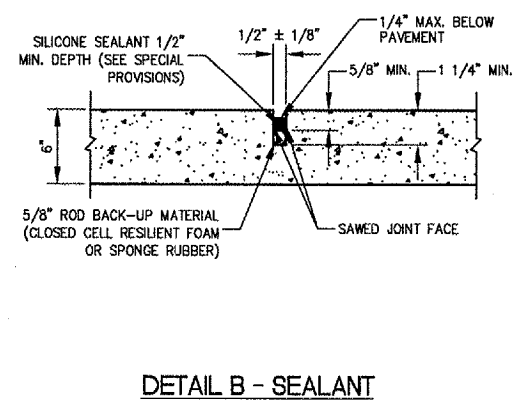
JOINTING AND REINFORCING AT STRUCTURES



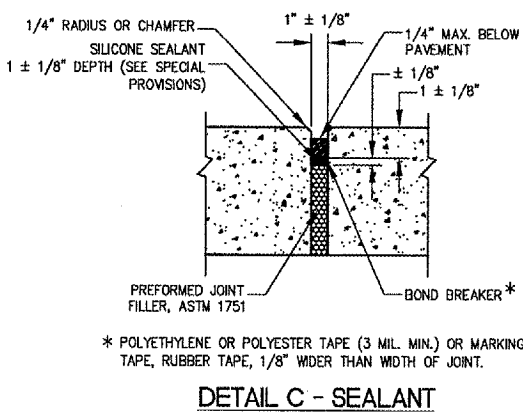
CURBED PAVEMENT EDGE



DETAIL A - SEALANT

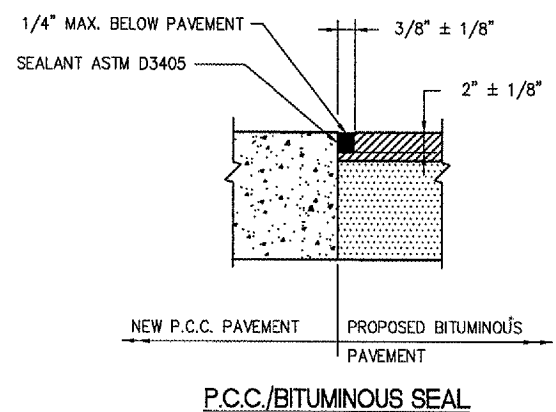


DETAIL B - SEALANT



DETAIL C - SEALANT

* POLYETHYLENE OR POLYESTER TAPE (3 MIL. MIN.) OR MARKING TAPE, RUBBER TAPE, 1/8" WIDER THAN WIDTH OF JOINT.



P.C.C./BITUMINOUS SEAL

DETAILS SHOWN ARE NOT TO SCALE



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 Fax: 815.838.9524

EXTEND TAXIWAY E: CONSTRUCT
 GA APRON, AVGAS FUELING APRON
 AND AUTO PARK 100
 AIP PROJECT NO. 3-17-0140-B38
 IDA PROJECT NO. LOT-3441

No.	Drawing Issue Description	Date	By

Date: MARCH 25, 2005
 Sheet Title:

**AVGAS APRON
 P.C.C. PAVEMENT AND
 JOINTING DETAILS**

Project Number	840-04D8041
LDH	2/16/05
Layout By	Date
LDH/TMM	03/12/05
Designed By	Date
RMH	03/16/05
Reviewed By	Date
LDH	---
Drawn By	---

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EXTEND TAXWAY E: CONSTRUCT
GA APRON, AVGAS FUELING APRON
AND AUTO PARK 100

AIP PROJECT NO. 3-17-0140-B38
IDA PROJECT NO. LOT-3441

NOTES:

1. ALL STAKING PLAN ELEVATIONS ARE AT CROSS SECTION STATIONS UNLESS NOTED OTHERWISE.
2. THE DATUM ELEVATION IS 615.34 ESTABLISHED FROM THE BENCHMARK NOTED ON SHEET 3.
3. STATIONING BASED ON ALIGNMENTS AS SHOWN. ENGINEER WILL PROVIDE BENCHMARKS WITH STATION, OFFSET, AND ELEVATION FOR CONTRACTOR'S USE.
4. FOR THE LOCATION OF DISPOSAL OF THE ON-SITE HAUL MATERIAL, SEE THE SITE PLAN. MATERIAL TO BE PLACED 5' MAXIMUM HEIGHT AND BE SLOPED TO DRAIN (1% MINIMUM SLOPE, 18.67% MAXIMUM SLOPE). COMPACTION OF MATERIAL IS NOT REQUIRED.
5. P.L. IS THE ELVATION OF THE P.C.C. PAVEMENT AT THE FLOWLINE/BASE OF CURB.

ALIGNMENT DATA

DESCRIPTION	STATION	STATE PLANE COORDINATES	
		NORTHING	EASTING
BEGINNING OF ALIGNMENT 200	205+00	1,799,534.54	1,051,243.80
END OF ALIGNMENT 200	218+00	1,798,235.70	1,051,298.79
BEGINNING OF ALIGNMENT 300	362+00	1,798,617.93	1,050,889.75
P.C. OF 75' RADIUS	363+30.69	1,798,487.36	1,050,895.28
CENTER OF 75' RADIUS	-----	1,798,415.60	1,050,973.38
P.T. OF 75' RADIUS	364+48.50	1,798,490.52	1,050,970.21
P.C. 75' RADIUS	372+81.00	1,798,450.81	1,051,805.14
CENTER 75' RADIUS	-----	1,798,525.74	1,051,801.97
P.T. 75' RADIUS	373+98.81	1,798,528.92	1,051,876.90
END OF ALIGNMENT 300	379+00	1,799,029.66	1,051,855.70
BEGINNING OF ALIGNMENT 400	411+00	1,798,954.11	1,051,718.77
END OF ALIGNMENT 400	418+00	1,798,254.73	1,051,748.38

CURVE DATA

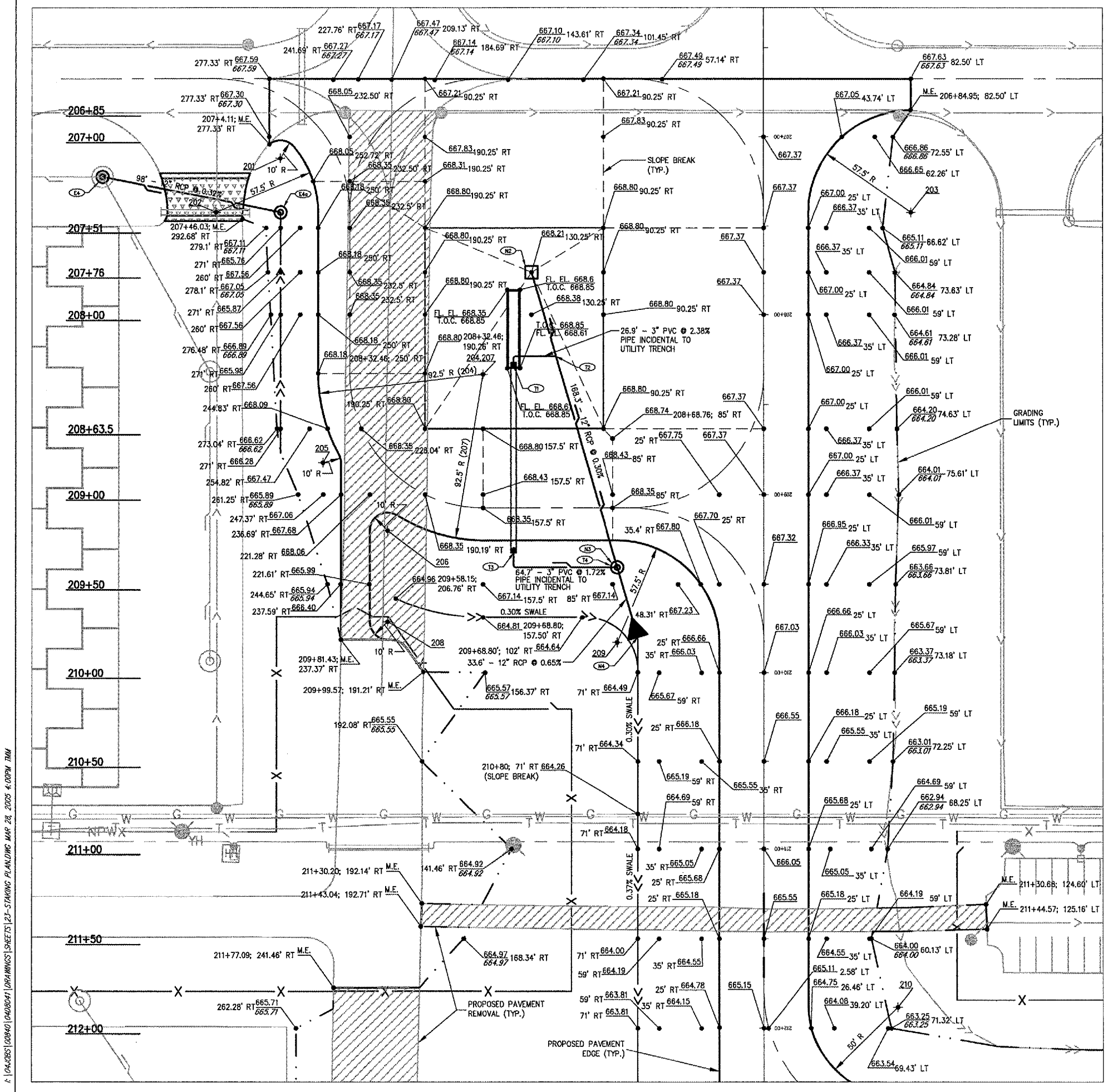
CURVE #	CENTER	P.C.	P.T.
201	207+12.01	207+04.17	207+05.54
	271.11' RT (10' RADIUS)	277.33' RT EL = 667.30	263.45' RT EL = 667.65
202	207+42.54	207+05.57	207+42.50
	307.50' RT (57.5' RADIUS)	263.45' RT EL = 667.65	250.00' RT EL = 668.09
203	207+42.50	206+85	207+42.50
	82.50' LT (57.5' RADIUS)	82.50' LT EL = 667.35	25' LT EL = 667.00
204	208+33.00	208+33.00	208+77.44
	157.50' RT (92.5' RADIUS)	250.00' RT EL = 668.09	238.61' RT EL = 668.09
205	208+82.31	208+77.51	208+82.31
	237.69' RT (10' RADIUS)	247.37' RT EL = 668.09	237.37' RT EL = 668.03
206	209+20.23	209+20.23	209+11.72
	211.37' RT (10' RADIUS)	221.37' RT EL = 667.28	206.12' RT EL = 668.09
207	208+33.00	209+11.72	209+25.52
	157.50' RT (92.5' RADIUS)	206.12' RT EL = 668.09	157.50' RT EL = 668.09
208	209+71.48	209+71.48	209+81.48
	211.37' RT (10' RADIUS)	221.37' RT EL = 665.99	211.37' RT EL = 666.13
209	209+83.00	209+25.50	209+83.00
	82.50' RT (57.5' RADIUS)	82.50' RT EL = 668.09	25.00' RT EL = 666.78
210	211+88.00	211+88.00	212+38.00
	75.00' LT (50' RADIUS)	25.00' LT EL = 664.90	75.00' LT EL = 664.05

LEGEND

- EXISTING UNDERDRAIN
- EXISTING STORM SEWER
- EXISTING TELEPHONE
- EXISTING GAS
- EXISTING ELECTRIC
- EXISTING WATER MAIN
- EXISTING FENCE
- EXISTING SWALE
- PROPOSED STORM SEWER
- PROPOSED SWALE
- PROPOSED FENCE
- EXISTING STORM SEWER MANHOLE
- EXISTING FLARED END SECTION
- EXISTING UNDERDRAIN INSPECTION HOLE
- EXISTING UNDERDRAIN CLEAN OUT
- PROPOSED STORM SEWER MANHOLE
- PROPOSED FLARED END SECTION



30 0 30 60
SCALE IN FEET



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No.	Drawing Issue Description	Date	By

Date: MARCH 25, 2005
Sheet Title:

STAKING PLAN
ALIGNMENT 200
STA 206+85 TO STA 212+00

840-0408041
Project Number
LDH 02/14/05
Layout By Date
LDH/TMM 02/14/05
Designed By Date
RMH 03/11/05
Reviewed By Date
LDH | KLK | ---
Drawn By Sheet No.

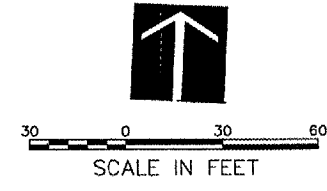
No.	Drawing Issue Description	Date	By

Date
 MARCH 25, 2005

Sheet Title
**STAKING PLAN
 ALIGNMENT 200
 STA 212+00 TO
 STA 215+31.50
 WEST LIMITS**

840-04D8041
 Project Number
 LDH 02/14/05
 Layout By Date
 LDH/TMM 02/14/05
 Designed By Date
 RMH 03/11/05
 Reviewed By Date
 LDH | KLK | ---
 Drawn By

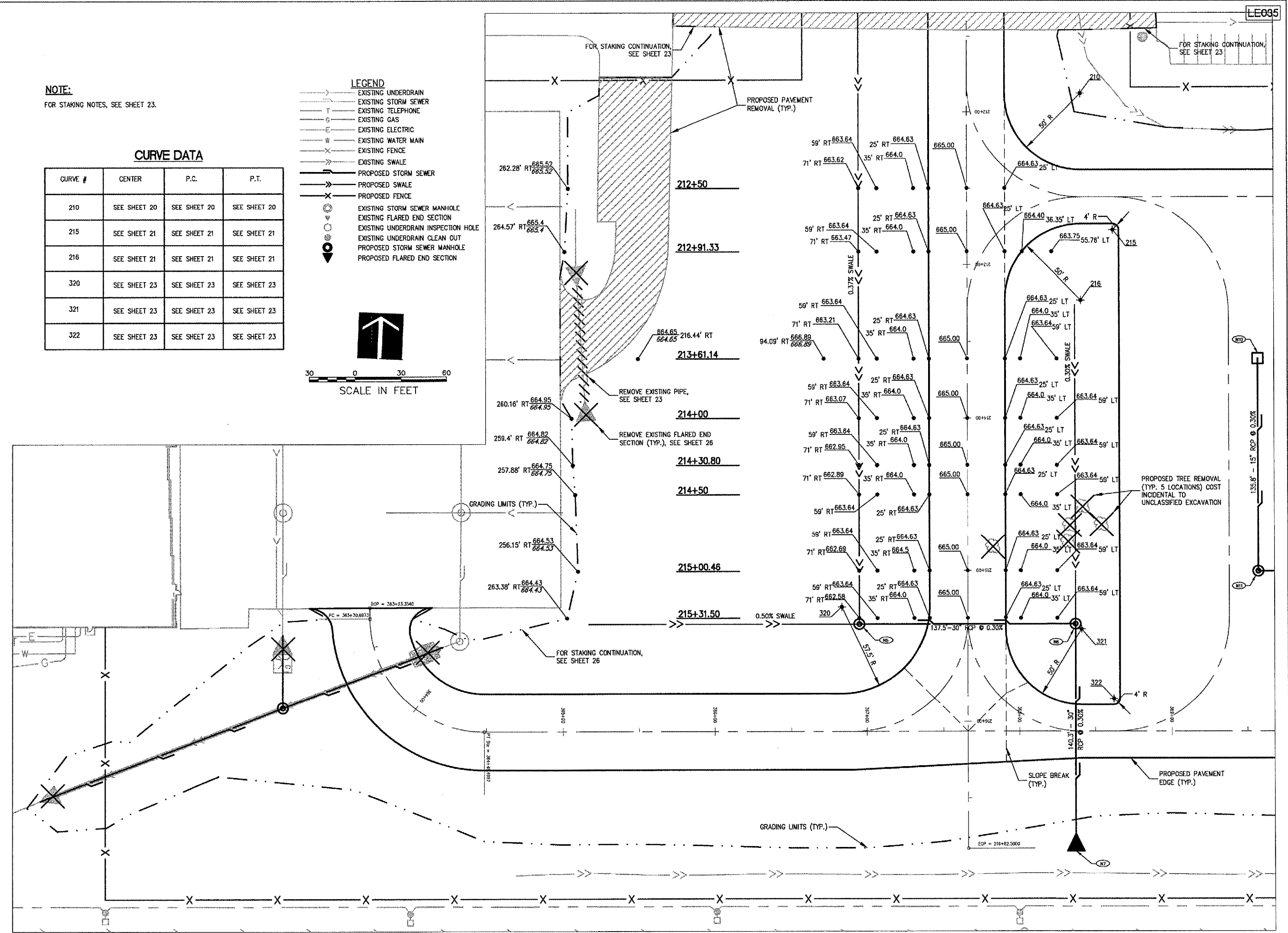
- LEGEND**
- EXISTING UNDERDRAIN
 - EXISTING STORM SEWER
 - T- EXISTING TELEPHONE
 - G- EXISTING GAS
 - E- EXISTING ELECTRIC
 - EXISTING WATER MAIN
 - X- EXISTING FENCE
 - EXISTING SWALE
 - PROPOSED STORM SEWER
 - PROPOSED SWALE
 - X- PROPOSED FENCE
 - EXISTING STORM SEWER MANHOLE
 - EXISTING FLARED END SECTION
 - EXISTING UNDERDRAIN INSPECTION HOLE
 - EXISTING UNDERDRAIN CLEAN OUT
 - PROPOSED STORM SEWER MANHOLE
 - PROPOSED FLARED END SECTION



NOTE:
 FOR STAKING NOTES, SEE SHEET 23.

CURVE DATA

CURVE #	CENTER	P.C.	P.T.
210	SEE SHEET 20	SEE SHEET 20	SEE SHEET 20
215	SEE SHEET 21	SEE SHEET 21	SEE SHEET 21
216	SEE SHEET 21	SEE SHEET 21	SEE SHEET 21
320	SEE SHEET 23	SEE SHEET 23	SEE SHEET 23
321	SEE SHEET 23	SEE SHEET 23	SEE SHEET 23
322	SEE SHEET 23	SEE SHEET 23	SEE SHEET 23



A:\04\005\008\01\DRAWINGS\SHEETS\24-STAKING PLAN\DWG MAR 28 2005 4:08PM TMM



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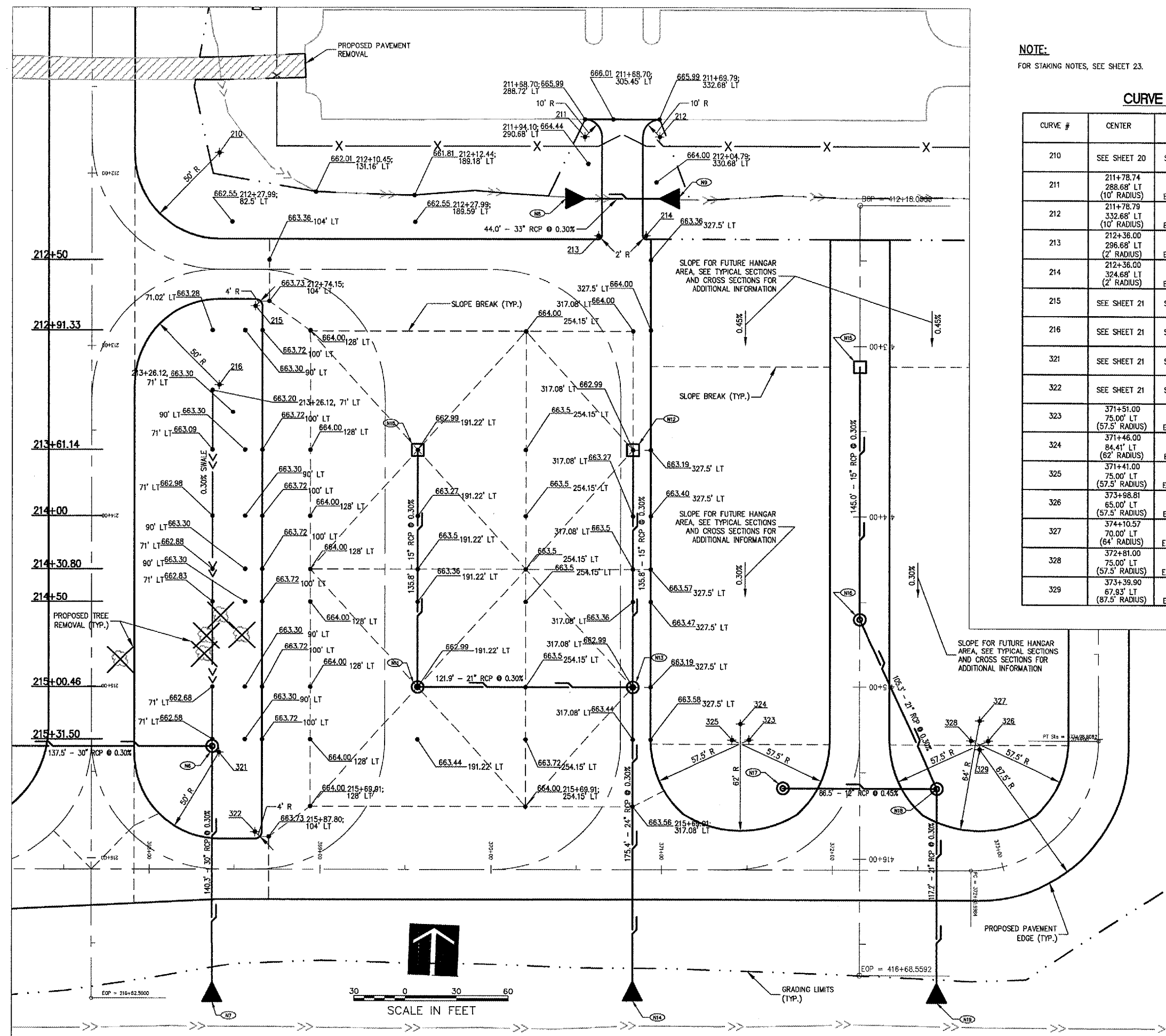
EXTEND TAXWAY E; CONSTRUCT
GA APRON, AVGAS FUELING APRON
AND AUTO PARK 100

AIP PROJECT NO. 3-17-0140-B38
IDA PROJECT NO. LOT-3441

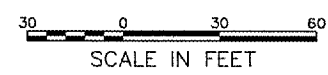
NOTE:
FOR STAKING NOTES, SEE SHEET 23.

CURVE DATA

CURVE #	CENTER	P.C.	P.T.
210	SEE SHEET 20	SEE SHEET 20	SEE SHEET 20
211	211+78.74 288.68' LT (10' RADIUS)	211+68.74 288.68' LT EL = 665.99	211+78.74 298.68' LT EL = 665.59
212	211+78.79 332.68' LT (10' RADIUS)	211+69.79 332.68' LT EL = 666.00	211+78.79 322.68' LT EL = 665.59
213	212+36.00 296.68' LT (2' RADIUS)	212+36.00 296.68' LT EL = 663.26	212+38.00 296.68' LT EL = 663.18
214	212+36.00 324.68' LT (2' RADIUS)	212+36.00 322.68' LT EL = 663.26	212+38.00 324.68' LT EL = 663.18
215	SEE SHEET 21	SEE SHEET 21	SEE SHEET 21
216	SEE SHEET 21	SEE SHEET 21	SEE SHEET 21
321	SEE SHEET 21	SEE SHEET 21	SEE SHEET 21
322	SEE SHEET 21	SEE SHEET 21	SEE SHEET 21
323	371+51.00 75.00' LT (57.5' RADIUS)	370+93.50 75.00' LT EL = 663.58	371+12.67 32.14' LT EL = 663.19
324	371+46.00 84.41' LT (62' RADIUS)	371+12.67 32.14' LT EL = 663.19	371+79.33 32.14' LT EL = 663.27
325	371+41.00 75.00' LT (57.5' RADIUS)	371+79.33 32.14' LT EL = 663.27	371+98.50 75.00' LT EL = 663.55
326	373+98.81 65.00' LT (57.5' RADIUS)	372+33.50 75.00' LT EL = 663.55	372+52.67 32.14' LT EL = 663.27
327	374+10.57 70.00' LT (64' RADIUS)	372+52.67 32.14' LT EL = 663.27	373+35.73 17.50' LT EL = 663.27
328	372+81.00 75.00' LT (57.5' RADIUS)	373+35.73 17.50' LT EL = 663.27	373+98.81 17.50' LT EL = 663.56
329	373+39.90 67.83' LT (87.5' RADIUS)	372+85.05 17.64' RT EL = 663.18	373+94.76 17.63' RT EL = 663.18



- LEGEND**
- - - - - EXISTING UNDERDRAIN
 - - - - - EXISTING STORM SEWER
 - - - - - EXISTING TELEPHONE
 - - - - - EXISTING GAS
 - - - - - EXISTING ELECTRIC
 - - - - - EXISTING WATER MAIN
 - - - - - EXISTING FENCE
 - - - - - EXISTING SWALE
 - - - - - PROPOSED STORM SEWER
 - - - - - PROPOSED SWALE
 - - - - - PROPOSED FENCE
 - EXISTING STORM SEWER MANHOLE
 - EXISTING FLARED END SECTION
 - EXISTING UNDERDRAIN INSPECTION HOLE
 - EXISTING UNDERDRAIN CLEAN OUT
 - PROPOSED STORM SEWER MANHOLE
 - PROPOSED FLARED END SECTION



No.	Drawing Issue Description	Date	By

Date: MARCH 25, 2005
Sheet Title: STAKING PLAN

ALIGNMENT 200
STA 212+50 TO STA 215+31.50
EAST LIMITS

840-04D8041
Project Number
LDH 02/14/05
Layout By Date
LDH/TMM 02/14/05
Designed By Date
RMH 03/11/05
Reviewed By Date
LDH | KLK | ---
Drawn By Sheet No.

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EXTEND TAXIWAY E; CONSTRUCT
 GA APRON, AVGAS FUELING APRON
 AND AUTO PARK 100

AIP PROJECT NO. 3-17-0140-B38
 IDA PROJECT NO. LOT-3441

No.	Drawing Issue Description	Date	By

Date
 MARCH 25, 2005
 Sheet Title

STAKING PLAN
 ALIGNMENT 300
 STA 363+23.35 TO
 STA 368+00

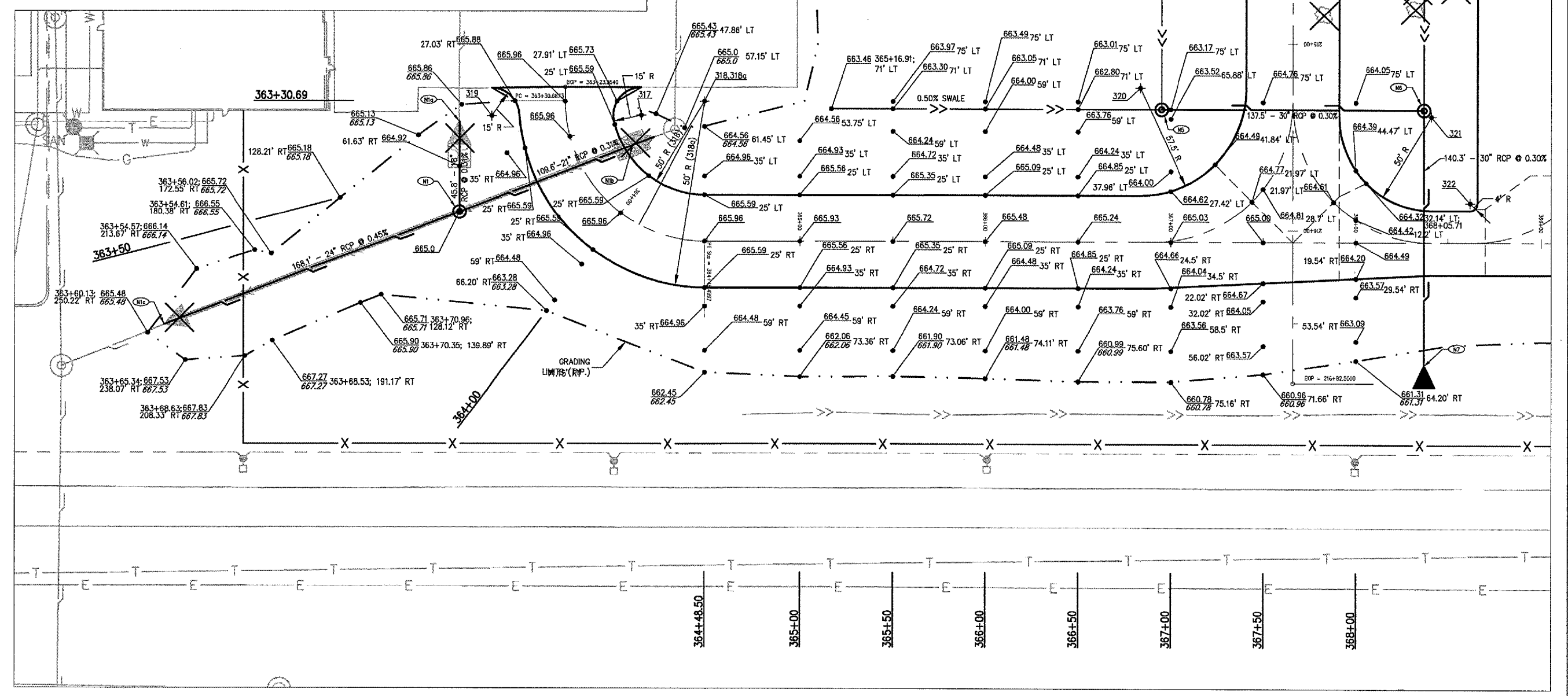
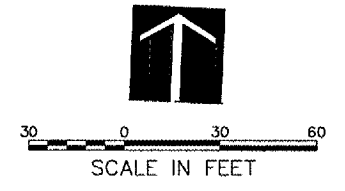
840-04D8041
 Project Number
 LDH 02/14/05
 Layout By Date
 LDH/TMM 02/14/05
 Designed By Date
 RMH 03/11/05
 Reviewed By Date
 LDH | KLK | ---
 Drawn By Sheet No.

NOTE:
 FOR STAKING NOTES, SEE SHEET 23.

CURVE DATA

CURVE #	CENTER	P.C.	P.T.
317	363+47.14 40.00' LT (15' RADIUS)	363+23.35 40.84' LT EL = 665.88	363+47.14 25.00' LT EL = 665.59
318	364+48.50 75.00' LT (50' RADIUS)	363+47.14 25.00' LT EL = 665.59	364+48.50 25.00' LT EL = 665.59
318a	363+89.59 75.00' LT (100' RADIUS)	363+35.91 25.00' RT EL = 665.59	364+48.50 25.00' RT EL = 665.59
319	363+35.91 40.00' RT (15' RADIUS)	363+23.68 39.72' RT EL = 666.03	363+35.91 25.00' RT EL = 665.59
320	366+83.50 82.50' LT (57.5' RADIUS)	366+83.50 25.00' LT EL = 664.71	367+41.00 82.50' LT EL = 664.63
321	368+41.00 67.50' LT (50' RADIUS)	367+91.00 67.50' LT EL = 664.63	368+41.00 17.50' LT EL = 663.72
322	368+62.00 21.50' LT (4' RADIUS)	368+62.00 17.50' LT EL = 663.72	368+66.00 21.50' LT EL = 663.72

- LEGEND
- EXISTING UNDERDRAIN
 - EXISTING STORM SEWER
 - EXISTING TELEPHONE
 - EXISTING GAS
 - EXISTING ELECTRIC
 - EXISTING WATER MAIN
 - EXISTING FENCE
 - EXISTING SWALE
 - PROPOSED STORM SEWER
 - PROPOSED SWALE
 - PROPOSED FENCE
 - EXISTING STORM SEWER MANHOLE
 - EXISTING FLARED END SECTION
 - EXISTING UNDERDRAIN INSPECTION HOLE
 - EXISTING UNDERDRAIN CLEAN OUT
 - PROPOSED STORM SEWER MANHOLE
 - PROPOSED FLARED END SECTION



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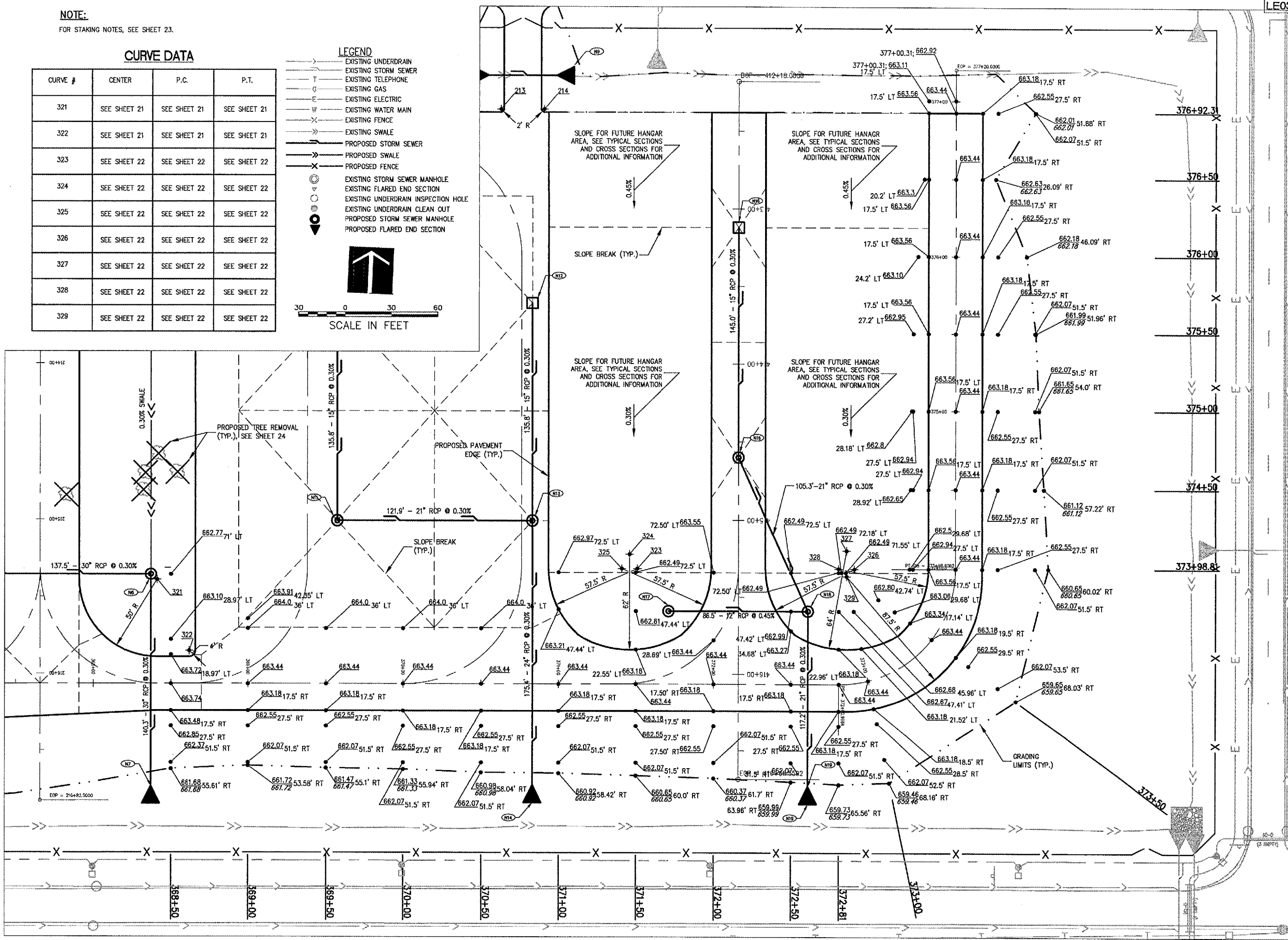
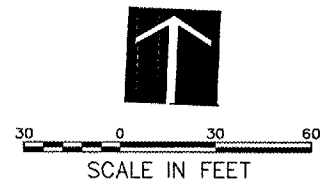
NOTE:
FOR STAKING NOTES, SEE SHEET 23.

CURVE DATA

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322	SEE SHEET 21	SEE SHEET 21	SEE SHEET 21
323	SEE SHEET 22	SEE SHEET 22	SEE SHEET 22
324	SEE SHEET 22	SEE SHEET 22	SEE SHEET 22
325	SEE SHEET 22	SEE SHEET 22	SEE SHEET 22
326	SEE SHEET 22	SEE SHEET 22	SEE SHEET 22
327	SEE SHEET 22	SEE SHEET 22	SEE SHEET 22
328	SEE SHEET 22	SEE SHEET 22	SEE SHEET 22
329	SEE SHEET 22	SEE SHEET 22	SEE SHEET 22

LEGEND

- EXISTING UNDERDRAIN
- EXISTING STORM SEWER
- EXISTING TELEPHONE
- EXISTING GAS
- EXISTING ELECTRIC
- EXISTING WATER MAIN
- EXISTING FENCE
- EXISTING SWALE
- PROPOSED STORM SEWER
- PROPOSED SWALE
- PROPOSED FENCE
- EXISTING STORM SEWER MANHOLE
- EXISTING FLARED END SECTION
- EXISTING UNDERDRAIN INSPECTION HOLE
- EXISTING UNDERDRAIN CLEAN OUT
- PROPOSED STORM SEWER MANHOLE
- PROPOSED FLARED END SECTION



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**EXTEND TAXIWAY E CONSTRUCT
GA APRON, AVGAS FUELING APRON
AND AUTO PARK 100**

**AIP PROJECT NO. 3-17-0140-B38
IDA PROJECT NO. LOT-3441**

No.	Drawing Issue Description	Date	By

Date
MARCH 25, 2005
Sheet Title

**STAKING PLAN
ALIGNMENT 300
STA 368+00 TO STA
377+14.85**

840-04D8041
Project Number
LDH 02/14/05
Layout By Date
LDH/TMM 02/14/05
Designed By Date
RMH 03/11/05
Reviewed By Date
LDH | KLK | ---
Drawn By Sheet No.

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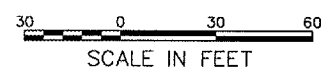
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EXTEND TAXIWAY E: CONSTRUCT
GA APRON, AVGAS FUELING APRON
AND AUTO PARK 100

AIP PROJECT NO. 3-17-0140-B38
IDA PROJECT NO. LOT-3441

NOTE:
FOR STAKING NOTES, SEE SHEET 23.



LEGEND

- EXISTING UNDERDRAIN
- EXISTING STORM SEWER
- EXISTING TELEPHONE
- EXISTING GAS
- EXISTING ELECTRIC
- EXISTING WATER MAIN
- EXISTING FENCE
- EXISTING SWALE
- PROPOSED STORM SEWER
- PROPOSED SWALE
- PROPOSED FENCE
- EXISTING STORM SEWER MANHOLE
- EXISTING FLARED END SECTION
- EXISTING UNDERDRAIN INSPECTION HOLE
- EXISTING UNDERDRAIN CLEAN OUT
- PROPOSED STORM SEWER MANHOLE
- PROPOSED FLARED END SECTION

CURVE DATA

CURVE #	CENTER	P.C.	P.T.
211	SEE SHEET 22	SEE SHEET 22	SEE SHEET 22
212	SEE SHEET 22	SEE SHEET 22	SEE SHEET 22
213	SEE SHEET 22	SEE SHEET 22	SEE SHEET 22
214	SEE SHEET 22	SEE SHEET 22	SEE SHEET 22
323	SEE SHEET 22	SEE SHEET 22	SEE SHEET 22
324	SEE SHEET 22	SEE SHEET 22	SEE SHEET 22
325	SEE SHEET 22	SEE SHEET 22	SEE SHEET 22
326	SEE SHEET 22	SEE SHEET 22	SEE SHEET 22
327	SEE SHEET 22	SEE SHEET 22	SEE SHEET 22
328	SEE SHEET 22	SEE SHEET 22	SEE SHEET 22
328	SEE SHEET 22	SEE SHEET 22	SEE SHEET 22

No.	Drawing Issue Description	Date	By

Date
MARCH 25, 2005

Sheet Title

**STAKING PLAN
ALIGNMENT 400**

840-04D8041
Project Number

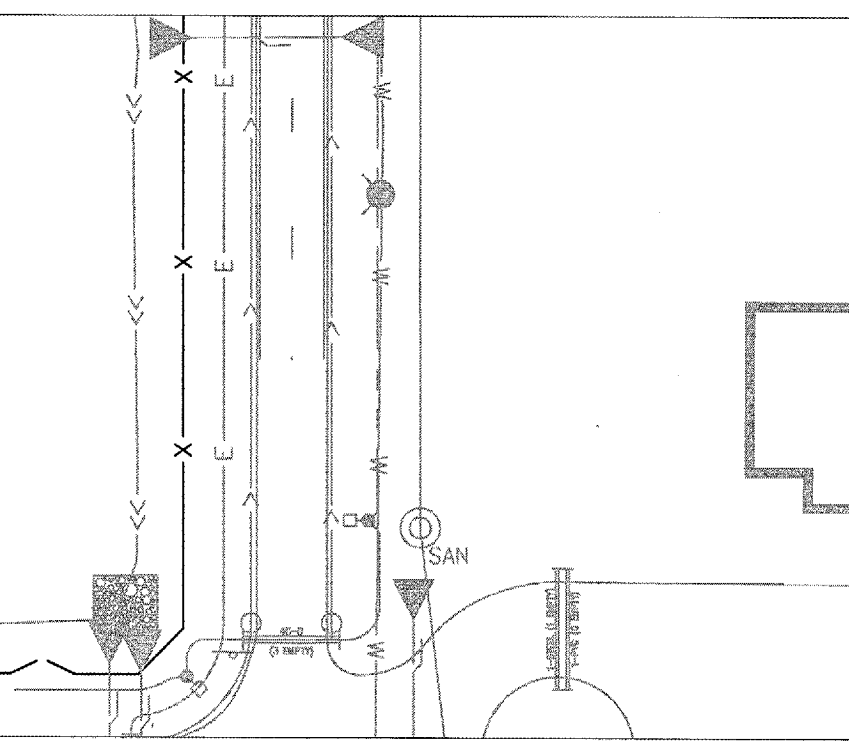
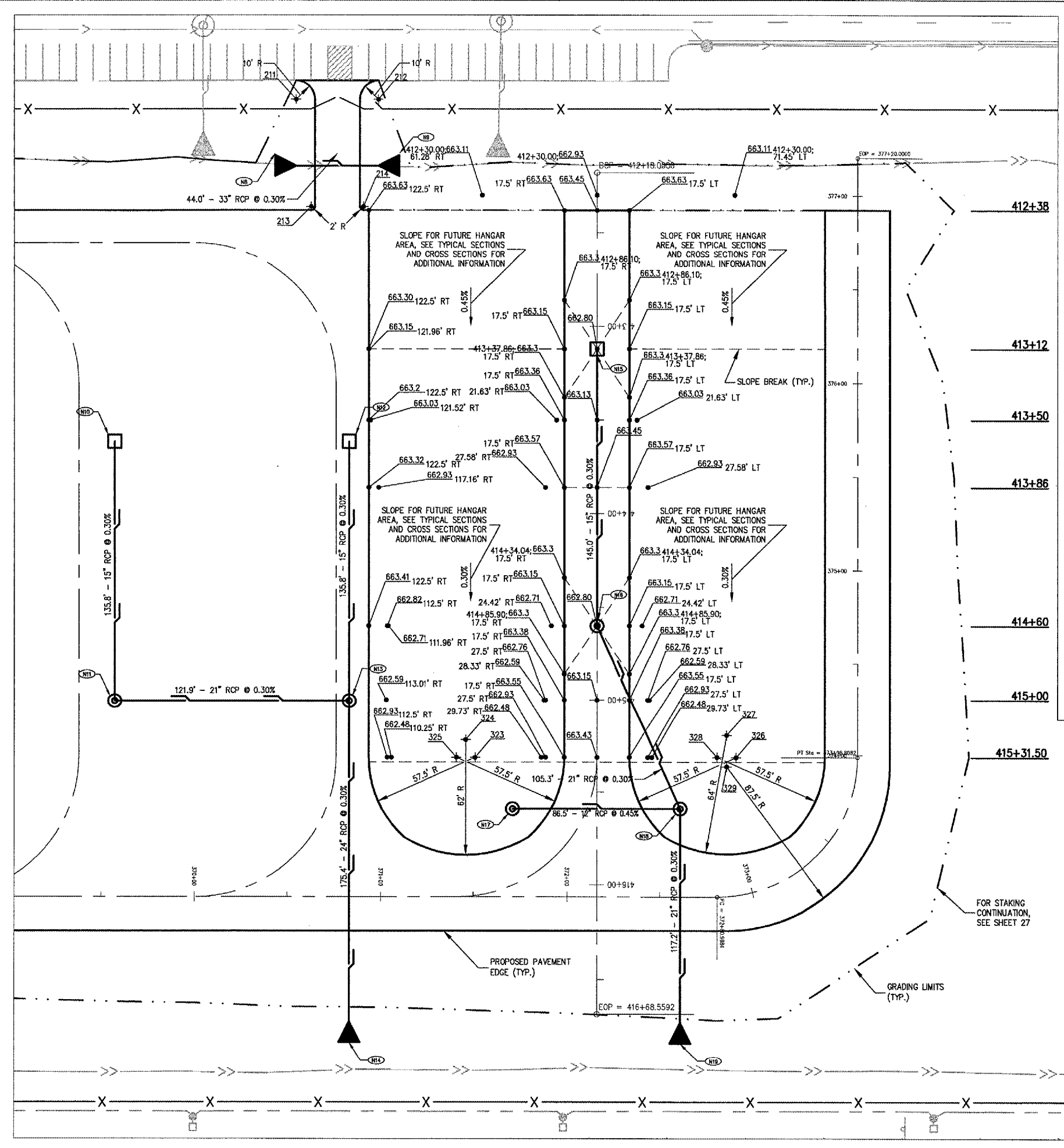
LDH 02/14/05
Layout By Date

LDH/TMM 02/14/05
Designed By Date

RMH 03/11/05
Reviewed By Date

LDH | KLK | ---
Drawn By Sheet No.

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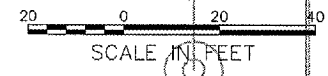
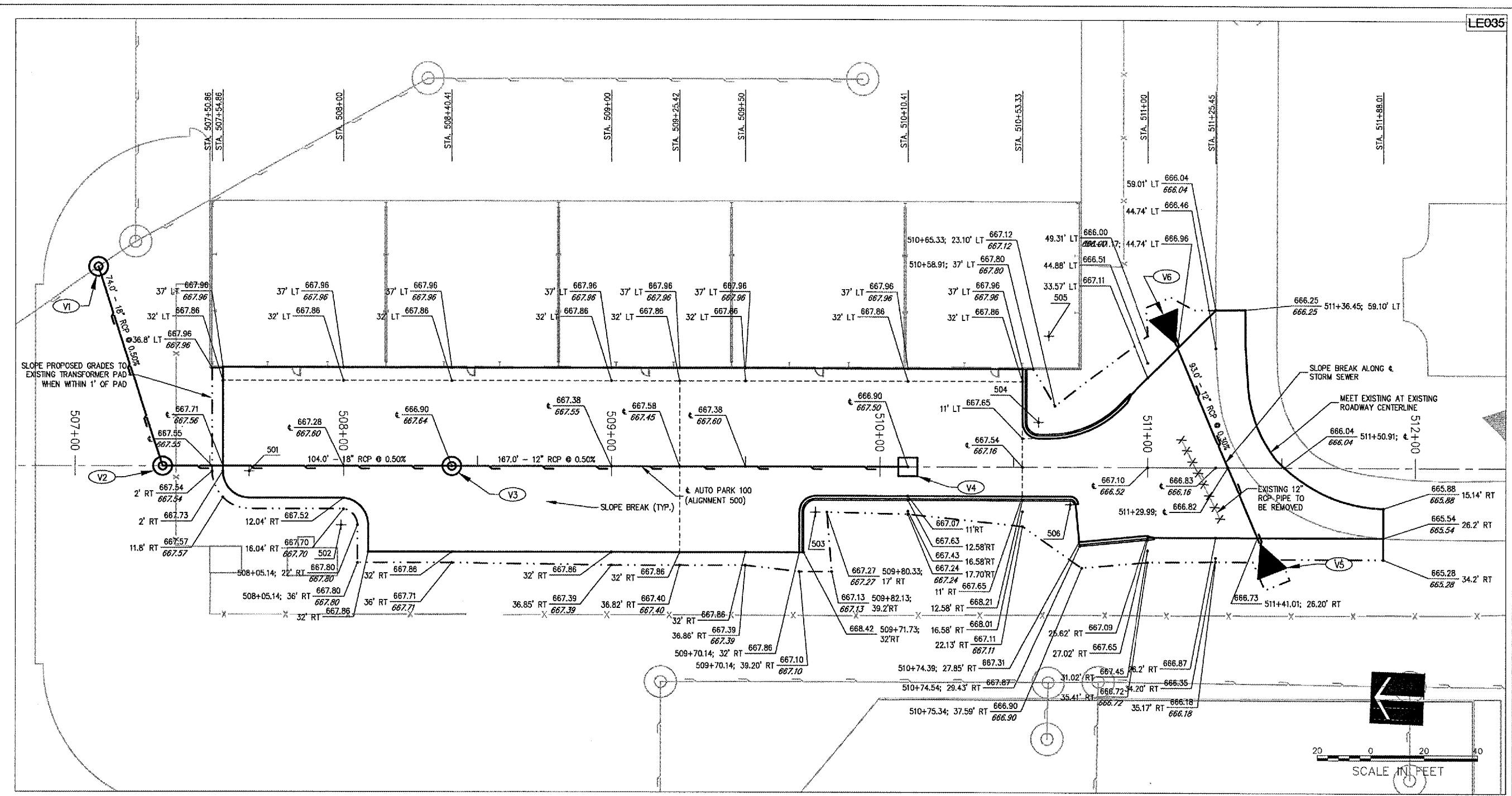


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EXTEND TAXIWAY E: CONSTRUCT
 GA APRON, AVGAS FUELING APRON
 AND AUTO PARK 100
 AIP PROJECT NO. 3-17-0140-B38
 IDA PROJECT NO. LOT-3441



ALIGNMENT DATA

DESCRIPTION	STATION	STATE PLANE COORDINATES	
		NORTHING	EASTING
BEGINNING OF ALIGNMENT 500	506+00	1,799,401.64	1,050,468.92
END OF ALIGNMENT 500	513+00	1,798,702.27	1,050,498.53

CURVE DATA

CURVE #	CENTER	P.C.	P.T.
501	507+64.86	507+54.86	507+64.86
	2.00' RT R = 10'	2.00' RT EL = 667.73	12.00' RT EL = 667.75
502	507+99.14	507+99.14	508+09.14
	22.00' RT R = 10'	12.00' RT EL = 667.52	22.00' RT EL = 667.65
503	509+76.14	509+70.14	509+76.14
	17.00' RT R = 6'	17.00' RT EL = 667.56	11.00' RT EL = 667.46
504	510+59.33	510+53.33	510+59.33
	17.00' LT R = 6'	17.00' RT EL = 667.71	11.00' RT EL = 667.59
505	510+63.06	510+63.00	510+90.93
	49.17' LT R = 38.17'	11.00' LT EL = 667.55	23.08' LT EL = 667.24
506	510+71.07	510+71.07	510+74.06
	14.00' RT R = 3'	11.00' RT EL = 667.33	13.72' RT EL = 667.31

LEGEND

- EXISTING SANITARY SEWER
- EXISTING UNDERDRAIN
- EXISTING STORM SEWER
- EXISTING TELEPHONE
- EXISTING GAS
- EXISTING ELECTRIC
- EXISTING NON-POTABLE WATER
- EXISTING WATER MAIN
- EXISTING FENCE
- EXISTING LIGHTING CABLES
- PROPOSED TELEPHONE (BY OTHERS)
- PROPOSED GAS (BY OTHERS)
- PROPOSED ELECTRIC (BY OTHERS)
- PROPOSED STORM SEWER
- PROPOSED UNDERDRAIN
- PROPOSED FENCE
- PROP. EL. STATION; OFFSET
- EXS. EL.
- EXISTING SANITARY SEWER MANHOLE
- EXISTING STORM SEWER MANHOLE
- EXISTING FIRE HYDRANT
- EXISTING YARD HYDRANT
- EXISTING NON-POTABLE WATER WELL
- EXISTING FLARED END SECTION
- EXISTING ROADWAY LIGHT
- EXISTING APRON LIGHT POLE
- EXISTING ELECTRICAL TRANSFORMER
- EXISTING GAS METER
- EXISTING TELEPHONE PANEL
- EXISTING UNDERDRAIN INSPECTION HOLE
- EXISTING UNDERDRAIN CLEAN OUT
- EXISTING SIGN
- PROPOSED STORM SEWER MANHOLE
- PROPOSED FLARED END SECTION
- PROPOSED CLEAN OUT
- PROPOSED SIGN

NOTES

- ALL STAKING PLAN ELEVATIONS ARE AT CROSS SECTION STATIONS UNLESS NOTED OTHERWISE.
- THE DATUM ELEVATION IS 615.34 ESTABLISHED FROM THE BENCHMARK NOTED ON SHEET 3.
- STATIONING BASED ON ALIGNMENTS AS SHOWN. ENGINEER WILL PROVIDE BENCHMARKS WITH STATION, OFFSET, AND ELEVATION FOR CONTRACTOR'S USE.
- THE INFORMATION IN THE CURVE DATE TABLE IS BASED ON THE BITUMINOUS PAVEMENT EDGE IN ALL AREAS INCLUDING WHERE CURB AND GUTTER IS PRESENT.

No.	Drawing Issue Description	Date	By

Date
 MARCH 25, 2005
 Sheet Title

**STAKING PLAN
 ALIGNMENT 500**

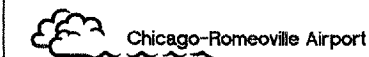
840-04D8041
 Project Number
 TMM 02/28/05
 Layout By Date
 TMM 02/28/05
 Designed By Date
 RMH 03/07/05
 Reviewed By Date
 TMM
 Drawn By
 Sheet No.

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EXTEND TAXIWAY E: CONSTRUCT
GA APRON, AVGAS FUELING APRON
AND AUTO PARK 100

AIP PROJECT NO. 3-17-0140-B38
IDA PROJECT NO. LOT-3441

EARTHWORK SUMMARY

	Volume Auto 100 (C.Y.)	Volume GA & Fueling Apron and Taxiway E (C.Y.)	Total Volume (C.Y.)
Topsoil Cut	900	18,300	19,200
Non-Suitable Undercut	0	1,160	1,160
Non-Topsoil Cut (Suitable)	310	4,900	5,210
Total Unclassified Excavation	1,210	24,360	25,570
Topsoil (From On-Site)	60	3,300	3,360
Non-Structural Fill (Including 10% Shrink)	50	6,200	6,250
Structural Fill (Including 10% Shrink)	140	22,180	22,320
Total Fill (w/ 10% shrink for non-topsoil only)	250	28,380	28,630
Remaining Structural Fill Material	170	0	0
Topsoil Remaining	800	8,800	9,600
Non-Suitable Undercut Remaining	0	1,160	1,160
Total Remaining to be Hauled to On-site Location	800	9,970	10,770
Offsite borrow Required (In Place Quantity)	0	15,390	15,390

NOTE:
FOR THE LOCATION OF DISPOSAL OF THE ON-SITE HAUL MATERIAL SEE THE SITE PLAN.
MATERIAL TO BE PLACED 5' MAXIMUM HEIGHT AND BE SLOPED TO DRAIN (1% MINIMUM SLOPE,
16.67% MAXIMUM SLOPE). COMPLICATION OF MATERIAL IS NOT REQUIRED.

208
+
00

207
+
76

207
+
51

207
+
00

206
+
67.50

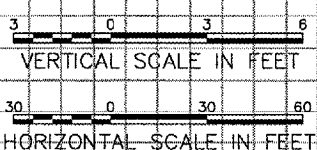
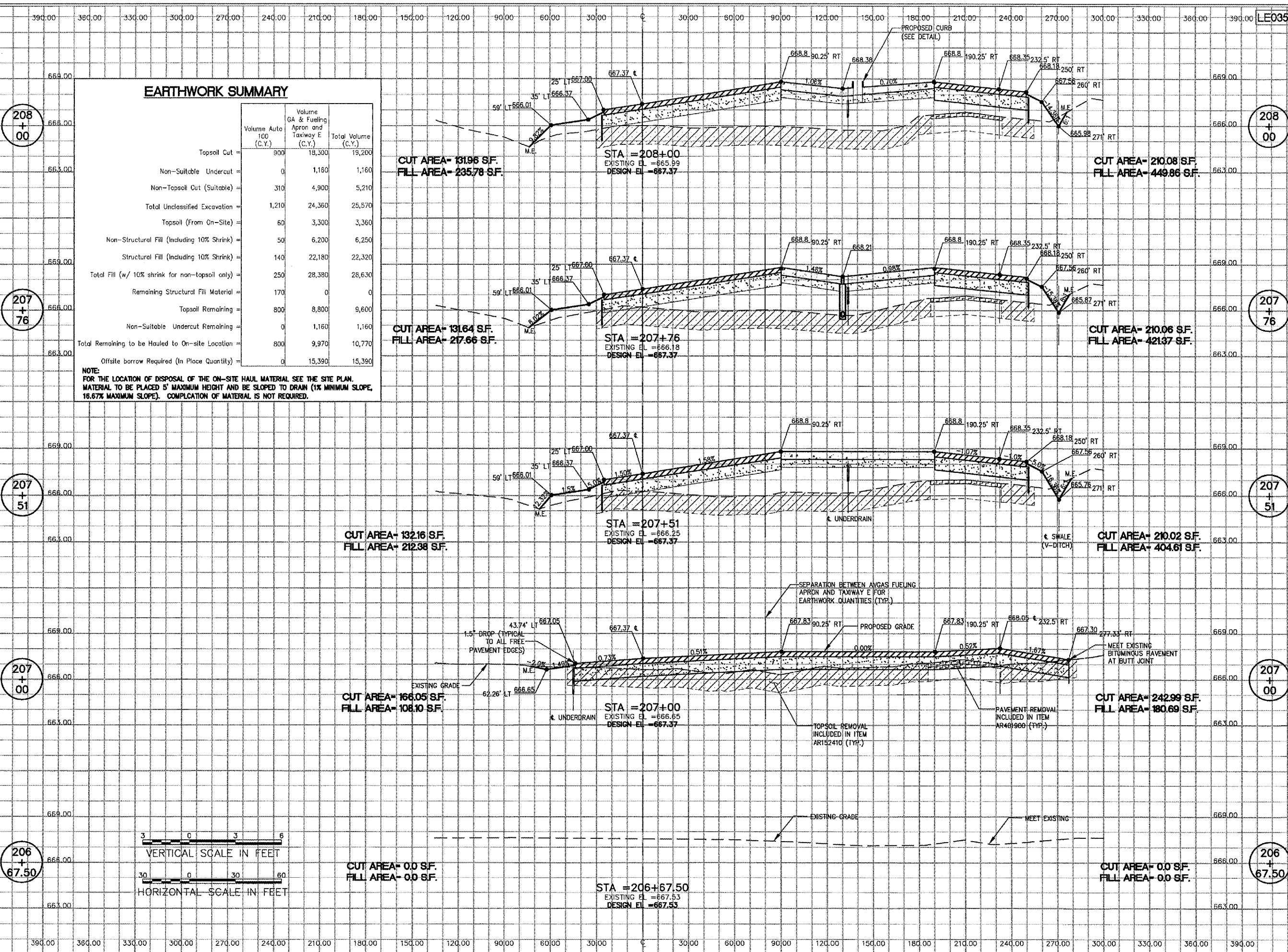
208
+
00

207
+
76

207
+
51

207
+
00

206
+
67.50



No.	Drawing Issue	Description	Date	By

Date: MARCH 25, 2005
Sheet Title:

CROSS SECTIONS
ALIGNMENT 200
STA 206+67.50 THRU
STA 208+00

840-04D8041
 Project Number
 LDH 02/08/05
 Layout By Date
 LDH/TMM 03/02/05
 Designed By Date
 RMH 03/16/05
 Reviewed By Date
 LDH
 Drawn By
 Sheet No.

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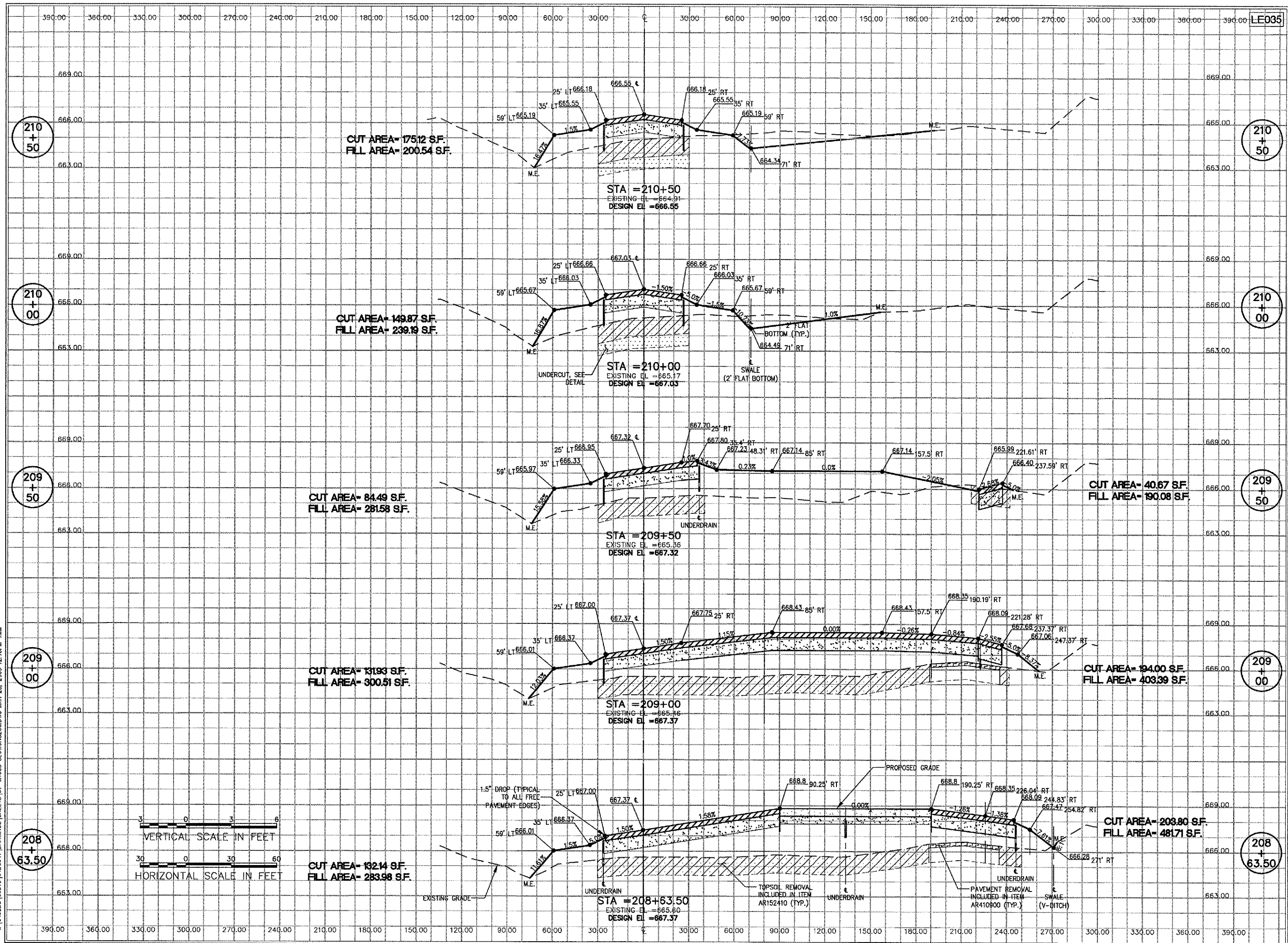


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EXTEND TAXIWAY E: CONSTRUCT
GA APRON, AVGAS FUELING APRON
AND AUTO PARK 100

AIP PROJECT NO. 3-17-0140-B38
IDA PROJECT NO. LOT-3441



No.	Drawing Issue Description	Date	By

Date
MARCH 25, 2005
Sheet Title

CROSS SECTIONS
ALIGNMENT 200
STA 208+63.5 THRU
STA 210+50

840-04D8041
Project Number
LDH 02/08/05
Layout By Date
LDH/TMM 03/02/05
Designed By Date
RMH 03/16/05
Reviewed By Date
LDH
Drawn By
Sheet No.

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AND AUTO PARK 100

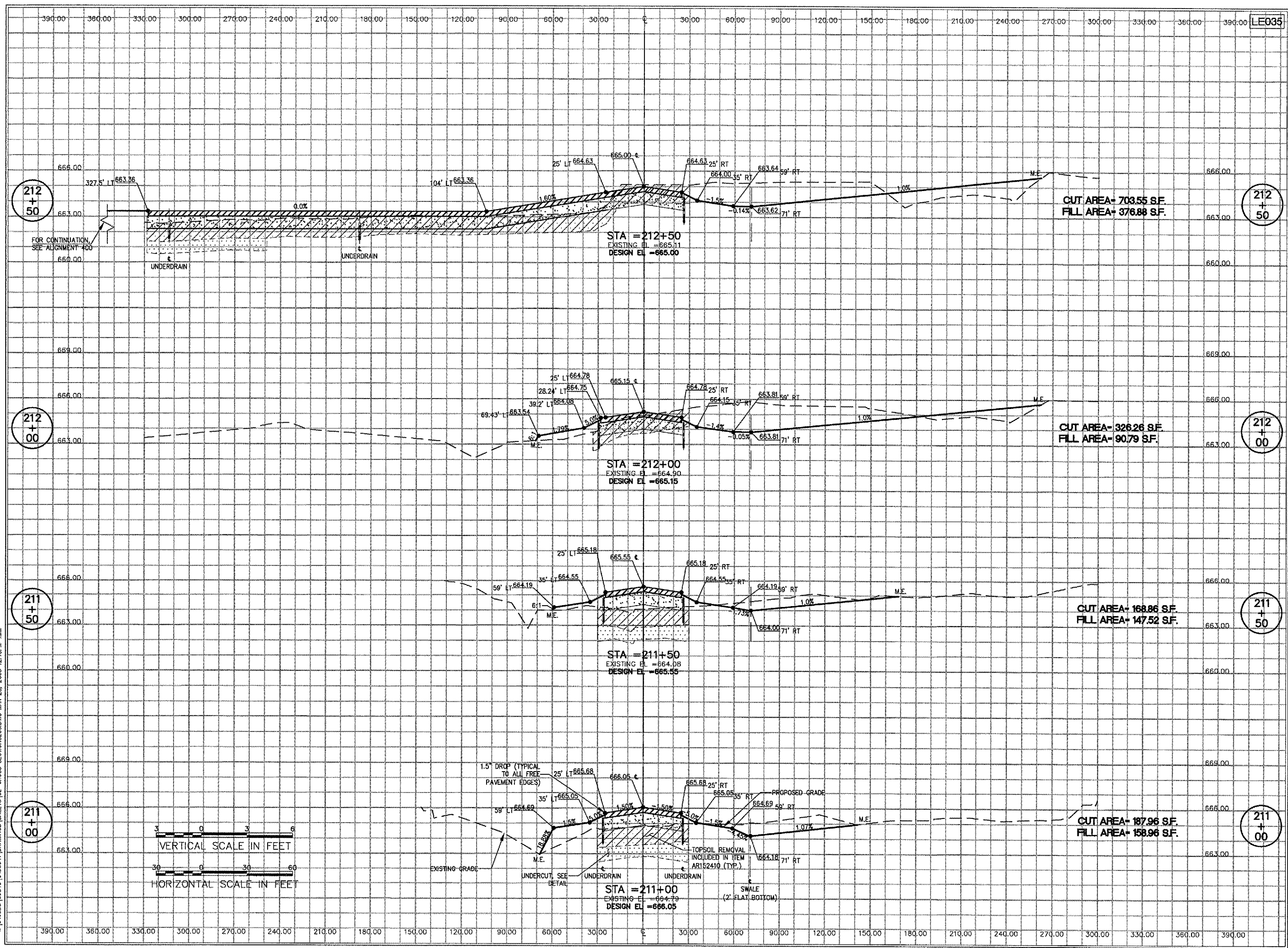
AIP PROJECT NO. 3-17-0140-B38
IDA PROJECT NO. LOT-3441

No.	Drawing Issue Description	Date	By

Date
MARCH 25, 2005

Sheet Title
**CROSS SECTIONS
ALIGNMENT 200
STA 211+00 THRU
STA 212+50**

840-04D8041
 Project Number
 LDH 02/08/05
 Layout By Date
 LDH/TMM 03/02/05
 Designed By Date
 RMH 03/16/05
 Reviewed By Date
 LDH
 Drawn By



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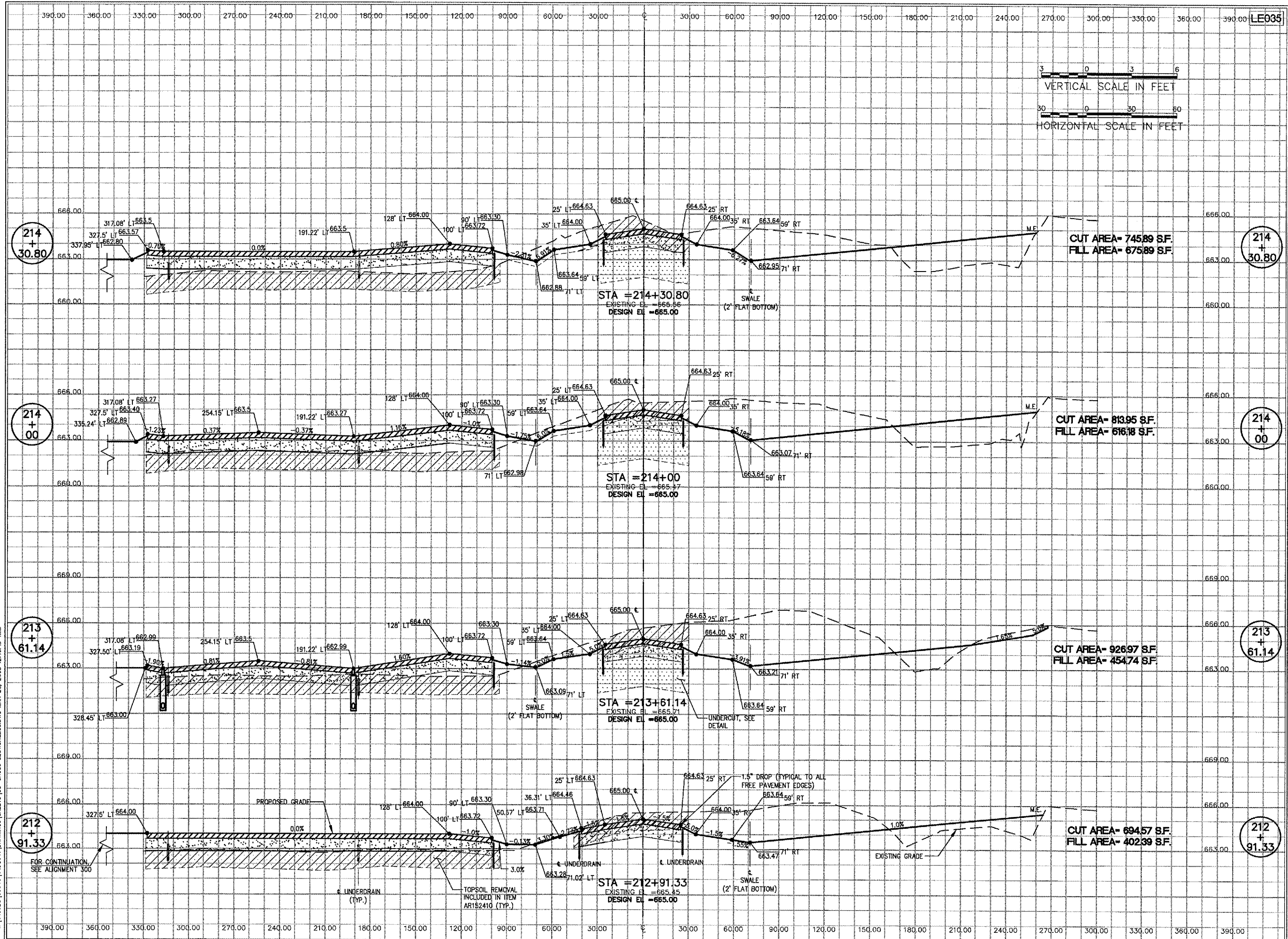
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EXTEND TAXIWAY E; CONSTRUCT
 GA APRON, AVGAS FUELING APRON
 AND AUTO PARK 100

AIP PROJECT NO. 3-17-0140-B38
 IDA PROJECT NO. LOT-3441



No.	Drawing Issue	Description	Date	By

Date: MARCH 25, 2005

CROSS SECTIONS
 ALIGNMENT 200
 STA 212+91.33 THRU
 STA 214+30.80

840-04D8041
 Project Number
 LDH 02/09/05
 Layout By Date
 LDH/TMM 03/02/05
 Designed By Date
 RMH 03/16/05
 Reviewed By Date
 LDH
 Drawn By Sheet No.

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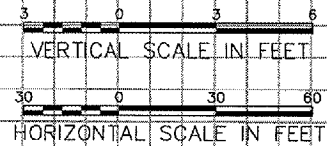


JOLIET REGIONAL PORT DISTRICT

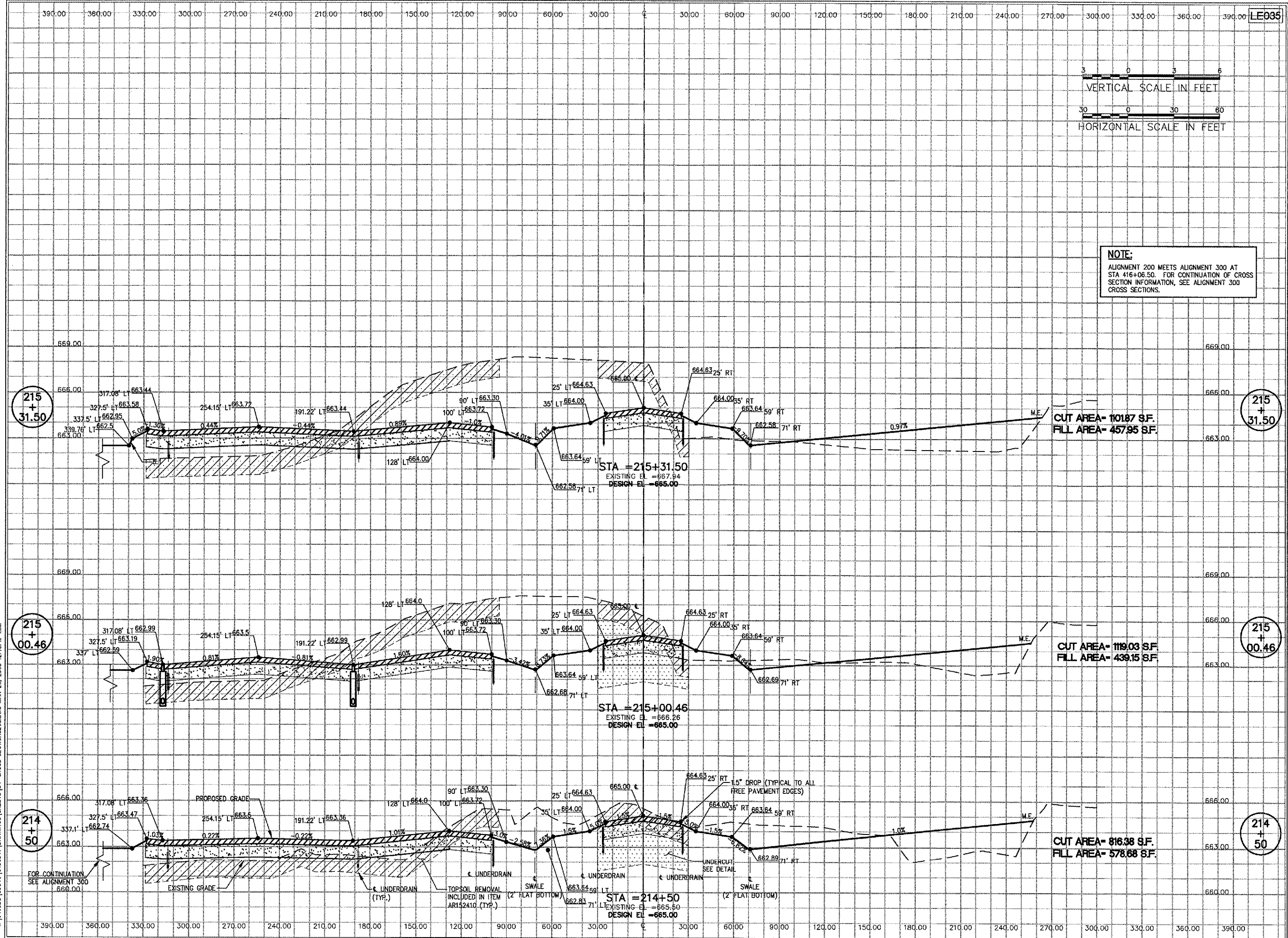
1 Hangar Road
Romeoville, Illinois 60446
Telephone: 815.838.9497
Fax: 815.838.9524

EXTEND TAXIWAY E; CONSTRUCT
GA APRON, AVGAS FUELING APRON
AND AUTO PARK 100

AIP PROJECT NO. 3-17-0140-B38
IDA PROJECT NO. LOT-3441



NOTE:
ALIGNMENT 200 MEETS ALIGNMENT 300 AT
STA 416+06.50. FOR CONTINUATION OF CROSS
SECTION INFORMATION, SEE ALIGNMENT 300
CROSS SECTIONS.



No.	Drawing Issue Description	Date	By

Date
MARCH 25, 2005

Sheet Title
**CROSS SECTIONS
ALIGNMENT 200
STA 214+50 THRU
STA 215+31.5**

840-04D8041
Project Number
LDH 02/09/05
Layout By Date
LDH/TMM 03/02/05
Designed By Date
RMH 03/16/05
Reviewed By Date
LDH
Drawn By
Sheet No.

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EXTEND TAXIWAY E: CONSTRUCT
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AND AUTO PARK 100

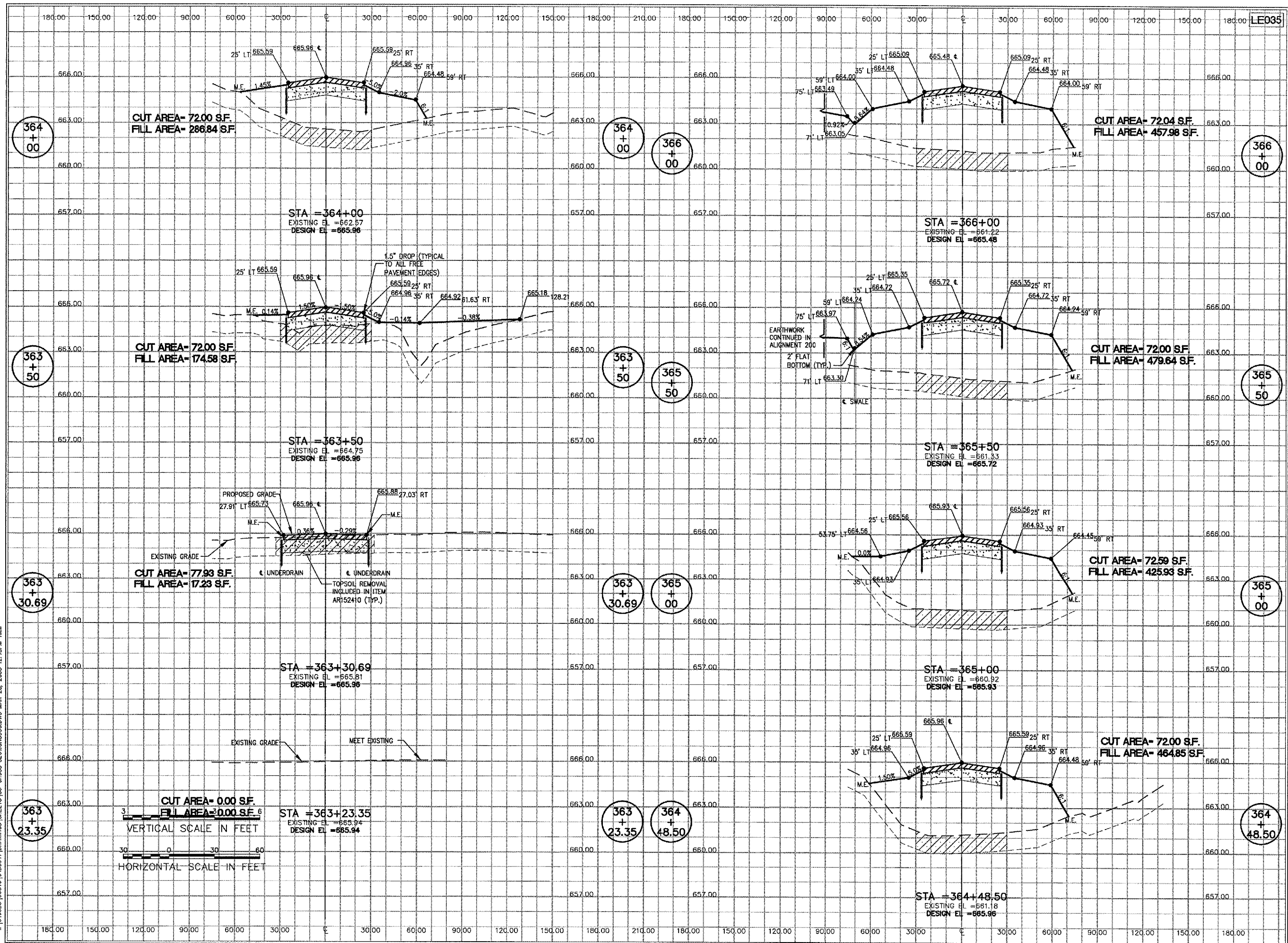
AIP PROJECT NO. 3-17-0140-B38
IDA PROJECT NO. LOT-3441

No.	Drawing Issue Description	Date	By

Date
MARCH 25, 2005

Sheet Title
**CROSS SECTIONS
ALIGNMENT 300
STA 363+23.35 THRU
STA 366+00**

840-04D8041
Project Number
LDH 02/09/05
Layout By Date
LDH/TMM 03/02/05
Designed By Date
RMH 03/16/05
Reviewed By Date
LDH
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Sheet No.



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EXTEND TAXIWAY E CONSTRUCT
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AND AUTO PARK 100

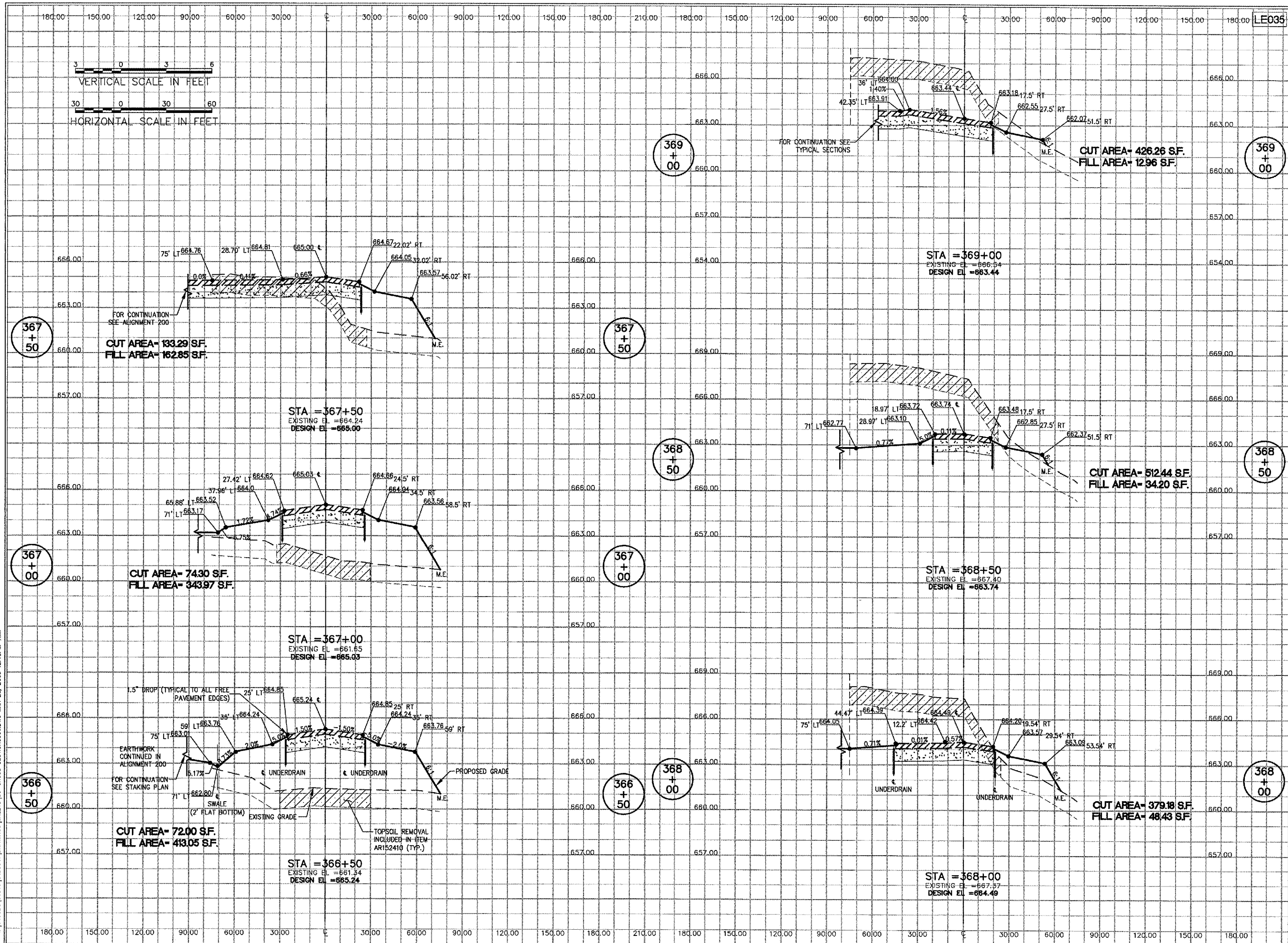
AIP PROJECT NO. 3-17-0140-B38
IDA PROJECT NO. LOT-3441

No.	Drawing Issue Description	Date	By

Date
MARCH 25, 2005

Sheet Title
**CROSS SECTIONS
ALIGNMENT 300
STA 366+50 THRU
STA 369+00**

840-04D8041
Project Number
LDH 02/09/05
Layout By Date
LDH/TMM 03/02/05
Designed By Date
RMH 03/16/05
Reviewed By Date
LDH
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1: (04-025) (02840) (0402041) (DRAWINGS) (SHEETS) (36-CROSS SECTIONS) (DWC) (MAR 28, 2005 12:15PM TMM)



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Fax: 815.838.9524

EXTEND TAXIWAY E; CONSTRUCT
GA APRON, AVGAS FUELING APRON
AND AUTO PARK 100

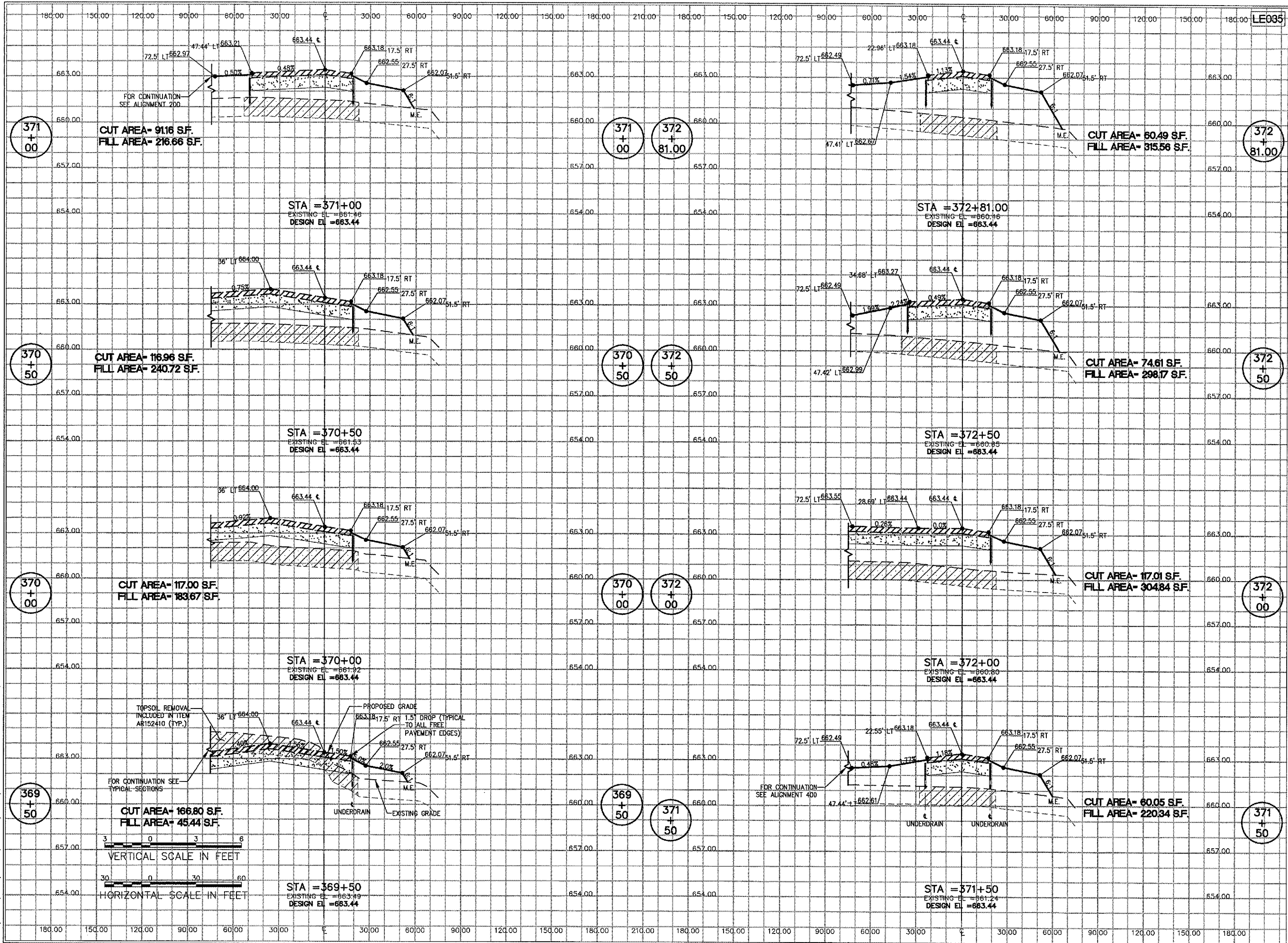
AIP PROJECT NO. 3-17-0140-B38
IDA PROJECT NO. LOT-3441

No.	Drawing Issue Description	Date	By

Date
MARCH 25, 2005

Sheet Title
**CROSS SECTIONS
ALIGNMENT 300
STA 369+50 THRU
STA 372+81**

840-04D8041
Project Number
LDH 02/09/05
Layout By Date
LDH/TMM 03/02/05
Designed By Date
RMH 03/16/05
Reviewed By Date
LDH
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EXTEND TAXIWAY E: CONSTRUCT
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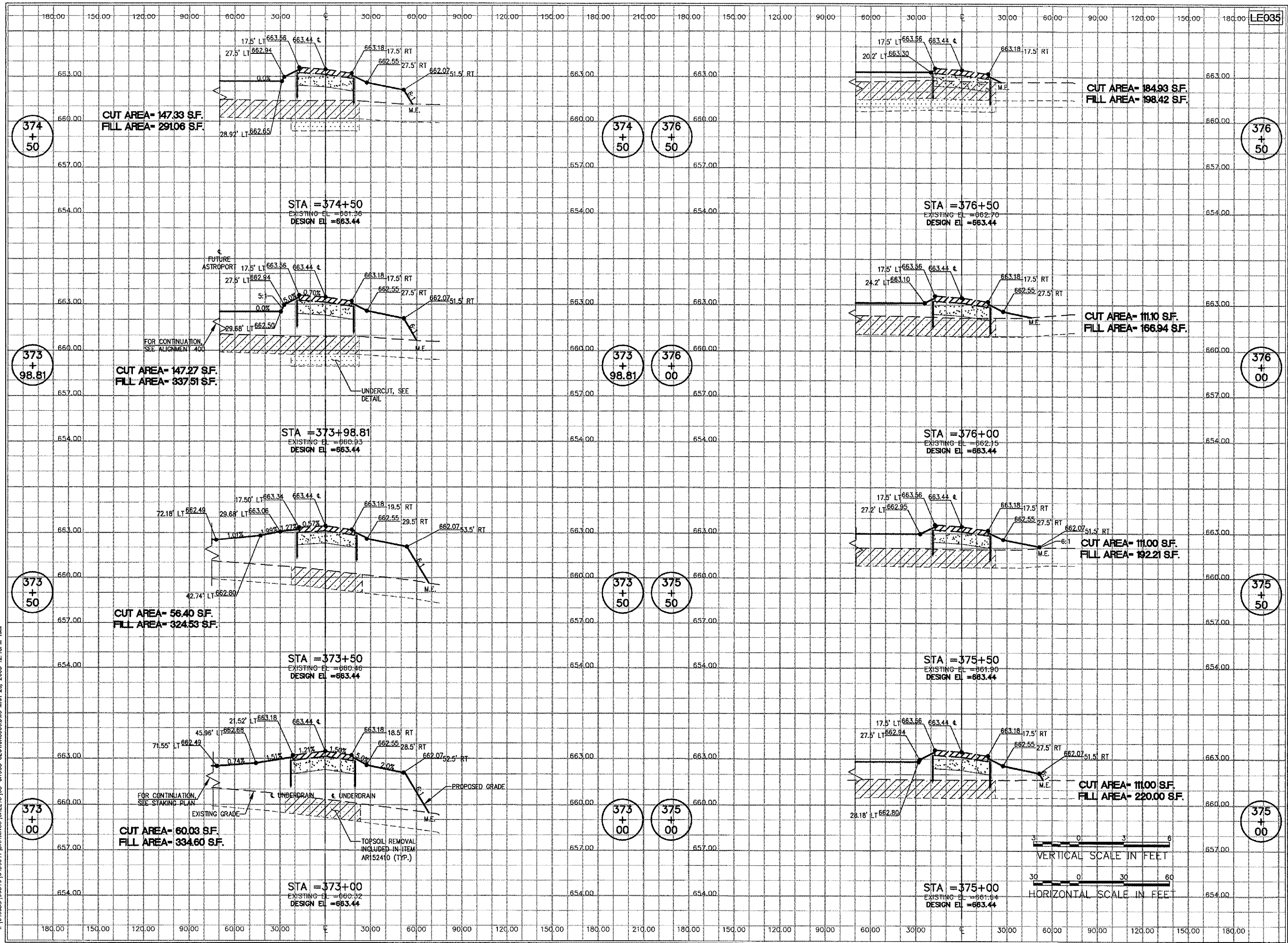
AIP PROJECT NO. 3-17-0140-B38
IDA PROJECT NO. LOT-3441

No.	Drawing Issue Description	Date	By

Date
MARCH 25, 2005

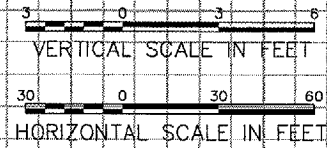
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**CROSS SECTIONS
ALIGNMENT 300
STA 373+00 THRU
STA 376+50**

840-04D8041
Project Number
LDH 02/09/05
Layout By Date
LDH/TMM 03/02/05
Designed By Date
RMH 03/16/05
Reviewed By Date
LDH
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Sheet No.



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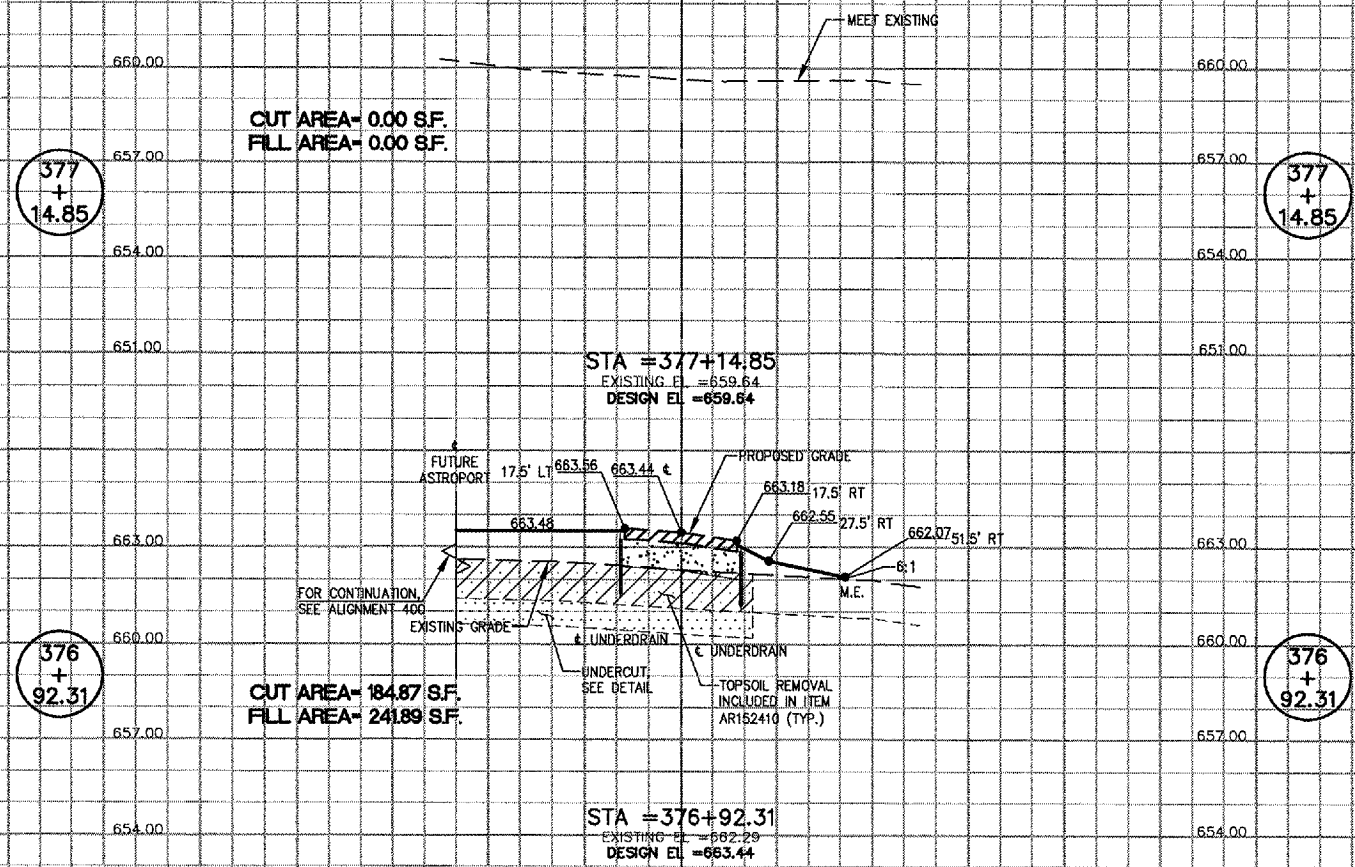


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EXTEND TAXIWAY E: CONSTRUCT
GA APRON, AVGAS FUELING APRON
AND AUTO PARK 100
AIP PROJECT NO. 3-17-0140-B38
IDA PROJECT NO. LOT-3441



No.	Drawing Issue Description	Date	By

Date
MARCH 25, 2005

Sheet Title
CROSS SECTIONS
ALIGNMENT 300
STA 376+92.31 THRU
STA 377+14.85

840-0408041
Project Number
LDH 02/09/05
Layout By Date
LDH/TMM 03/02/05
Designed By Date
RMH 03/16/05
Reviewed By Date
LDH
Drawn By
Sheet No.

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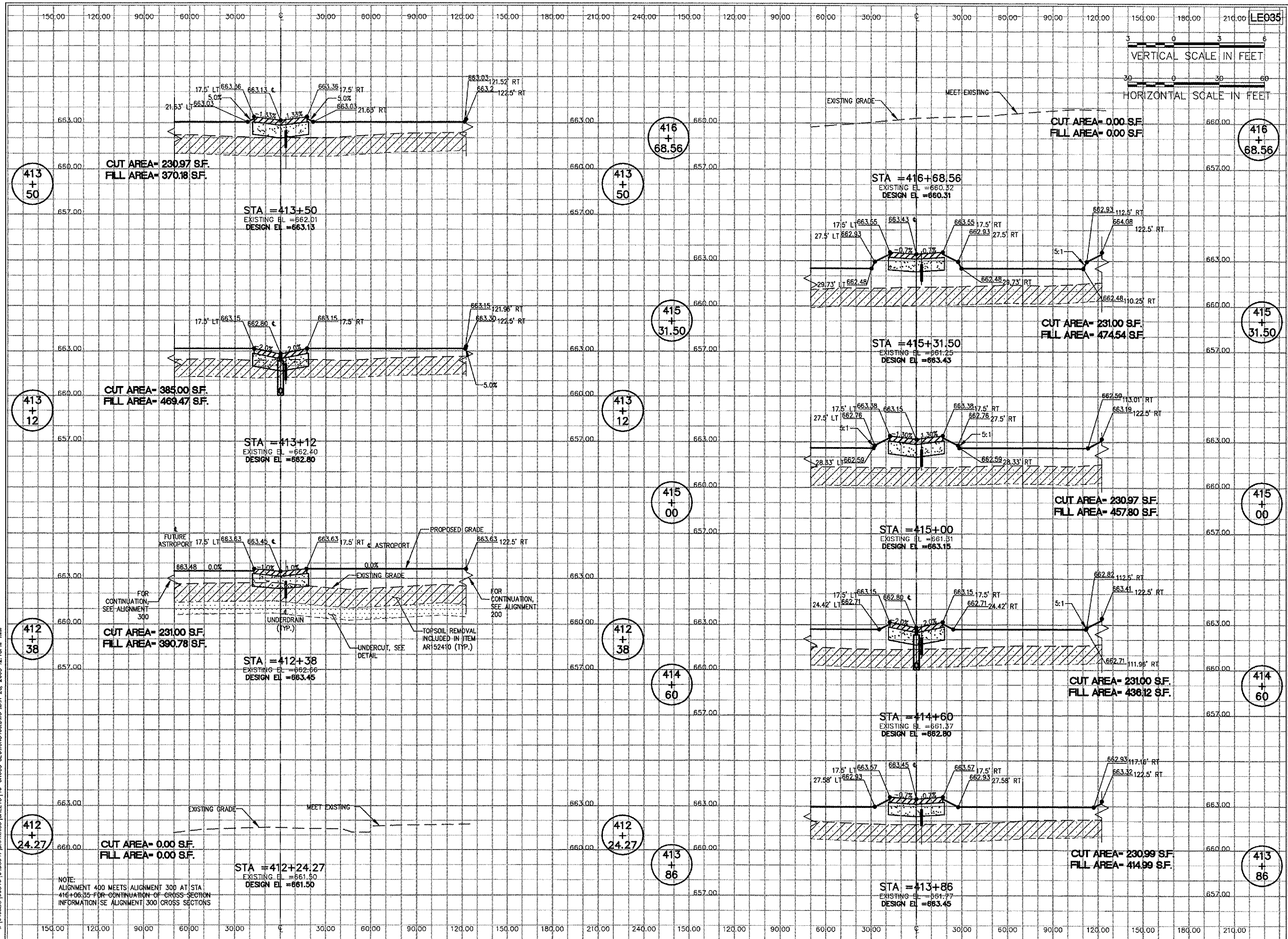
AIP PROJECT NO. 3-17-0140-B38
IDA PROJECT NO. LOT-3441

No.	Drawing Issue Description	Date	By

Date
MARCH 25, 2005
Sheet Title

CROSS SECTIONS
ALIGNMENT 400

840-04D8041
Project Number
LDH 02/09/05
Layout By Date
LDH/TMM 03/02/05
Designed By Date
RMH 03/16/05
Reviewed By Date
LDH
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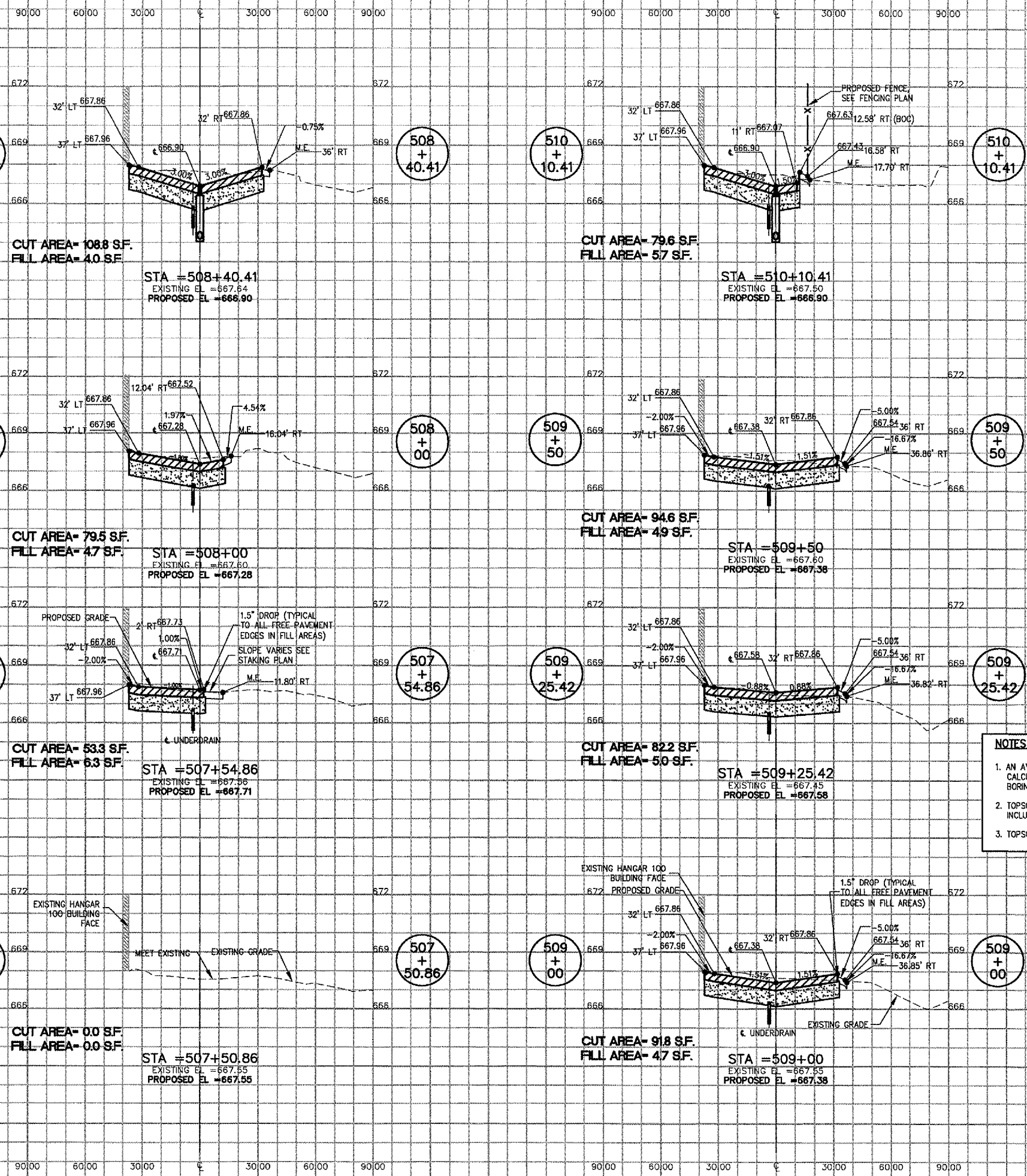
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AIP PROJECT NO. 3-17-0140-B38
IDA PROJECT NO. LOT-3441

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NOTES (ALIGNMENT 500 ONLY):

1. AN AVERAGE TOPSOIL THICKNESS OF 0.9' WAS USED IN EARTHWORK CALCULATIONS BASED ON THE TOPSOIL THICKNESSES SHOWN IN THE BORING LOGS.
2. TOPSOIL TO BE REMOVED WITHIN 5' OF PAVEMENT EDGES. QUANTITY INCLUDED IN THE CUT AREA SHOWN FOR EACH SECTION.
3. TOPSOIL STRIPPING NOT SHOWN FOR ALIGNMENT 500 FOR CLARITY.



No.	Drawing Issue Description	Date	By

Date

MARCH 25, 2005

Sheet Title

**CROSS SECTIONS
ALIGNMENT 500
STA. 507+50.86 TO
510+10.41**

840-04D8041
Project Number
TMM 03/02/05
Layout By Date
TMM 03/02/05
Designed By Date
RMH 03/07/05
Reviewed By Date
TMM
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EXTEND TAXIWAY E: CONSTRUCT
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AIP PROJECT NO. 3-17-0140-B38
IDA PROJECT NO. LOT-3441

No.	Drawing Issue Description	Date	By

Date

MARCH 25, 2005

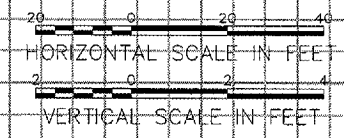
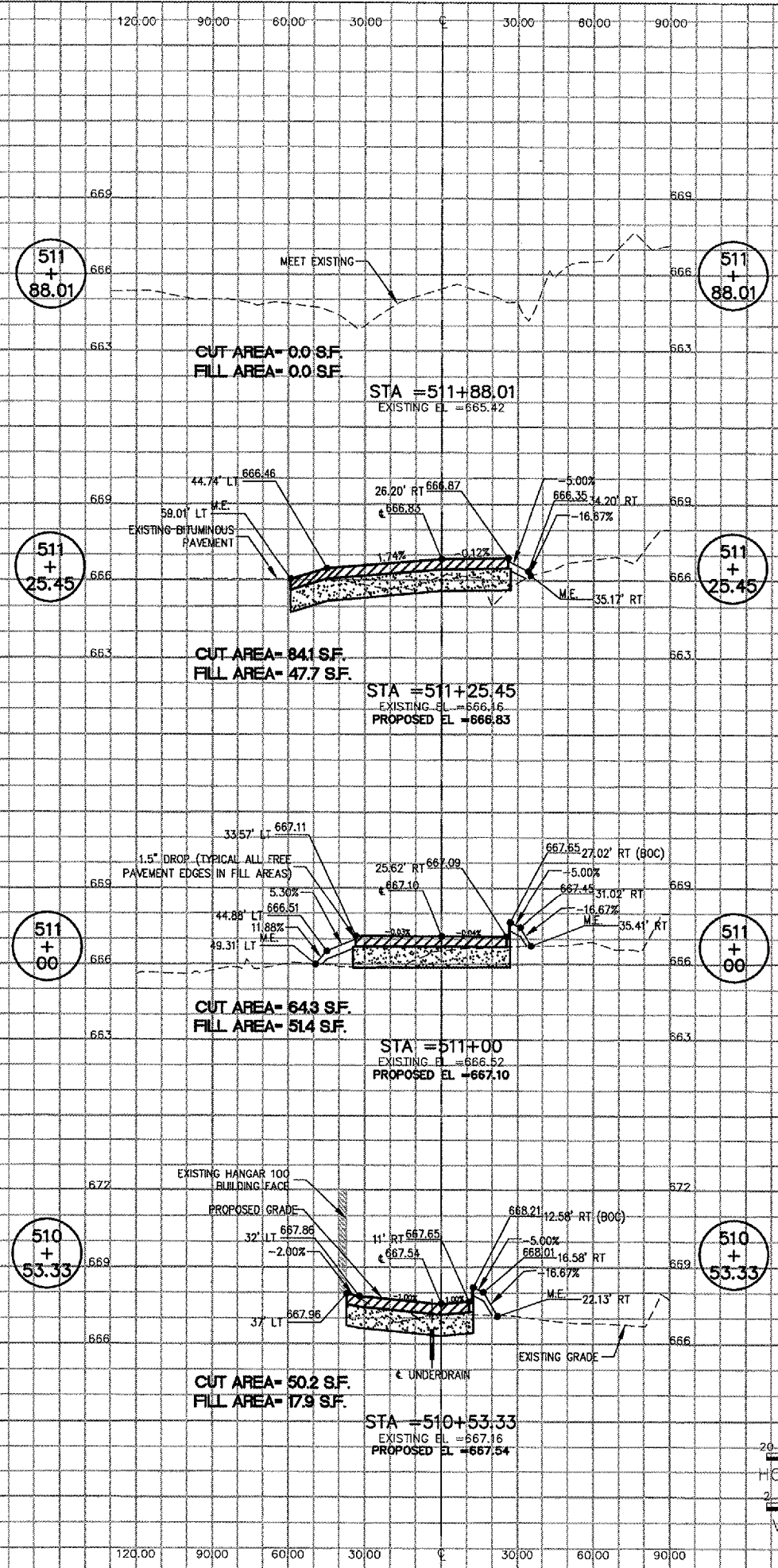
Sheet Title

CROSS SECTIONS
ALIGNMENT 500
STA. 510+53.33 TO 511+88.01

840-04D8041

Project Number
TMM 03/07/05
Layout By Date
TMM 03/07/05
Designed By Date
RMH 03/11/05
Reviewed By Date
TMM
Drawn By Sheet No.

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EXTEND TAXIWAY E; CONSTRUCT
 GA APRON, AVGAS FUELING APRON
 AND AUTO PARK 100

AIP PROJECT NO. 3-17-0140-B38
 IDA PROJECT NO. LOT-3441

	CABLE TERMINATOR/LUG
	TRANSFORMER
	DISCONNECT SWITCH
	FUSIBLE DISCONNECT SWITCH
	CIRCUIT BREAKER
	THERMAL MAGNETIC CIRCUIT BREAKER
	FUSE
	TRANSIENT VOLTAGE SURGE SUPPRESSOR OR SURGE PROTECTOR DEVICE
	GROUND - GROUND ROD, GROUNDING ELECTRODE, OR AT EARTH POTENTIAL
	INDICATING LIGHT
	MOTOR
	LOAD, MOTOR, # = HORSEPOWER
	ELECTRIC UTILITY METER BASE
	JUNCTION BOX WITH SPLICE
	EQUIPMENT, XXX = DEVICE DESCRIPTION
	GROUND BUS OR TERMINAL
	NEUTRAL BUS
	PANELBOARD WITH MAIN LUGS
	PANELBOARD WITH MAIN BREAKER
	FUSE PANEL WITH MAIN FUSE PULLOUT
	DUPLEX RECEPTACLE 120V SINGLE PHASE GROUNDING TYPE
	CONTROL STATION
	TRANSFER SWITCH
	ENGINE GENERATOR SET
	EXPLOSION PROOF CONDUIT SEAL-OFF FITTING CLASS 1, DIVISION 1, GROUP D

	NORMALLY OPEN (N.O.) CONTACT
	NORMALLY CLOSED (N.C.) CONTACT
	STARTER COIL, * = STARTER NUMBER
	OVERLOAD RELAY CONTACT
	CONTROL RELAY, * = CONTROL RELAY NUMBER
	RELAY, * = RELAY NUMBER
	TOGGLE SWITCH / 2 POSITION SWITCH
	2-POSITION SELECTOR SWITCH
	3-POSITION SELECTOR SWITCH (H-O-A SHOWN)
	2 POLE DISCONNECT SWITCH
	3 POLE DISCONNECT SWITCH
	PHOTOCELL
	TERMINAL BLOCK, * = TERMINAL NUMBER
	DEVICE TERMINAL, * = DEVICE TERMINAL NUMBER
	INTERNAL PANEL WIRING
	FIELD WIRING
	FUSE
	GROUND BUS OR TERMINAL
	NEUTRAL BUS
	GROUND, GROUND ROD
	N.O. THERMAL SWITCH
	N.C. THERMAL SWITCH

A, AMP	AMPERES
AWG	AMERICAN WIRE GAUGE
BKR	BREAKER
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CR	CONTROL RELAY
CU	COPPER
DPDT	DOUBLE POLE DOUBLE THROW
DPST	DOUBLE POLE SINGLE THROW
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING (THIN WALL)
ENCL	ENCLOSURE
EP	EXPLOSION PROOF
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
GRSC	GALVANIZED RIGID STEEL CONDUIT (HEAVY WALL)
HID	HIGH INTENSITY DISCHARGE
HOA	HAND OFF AUTOMATIC
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
J	JUNCTION BOX
KVA	KILOVOLT AMPERE(S)
KW	KILOWATTS
LC	LIGHTING CONTACTOR
LTFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT (UL LISTED)
LP	LIGHTING PANEL
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MCM	THOUSAND CIRCLUAR MIL
MDP	MAIN DISTRIBUTION PANEL
MH	METAL HALIDE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OHE	OVERHEAD ELECTRIC
OL	OVERLOAD
PB	PULL BOX
PC	PHOTO CELL
PDB	POWER DISTRIBUTION BLOCK
PNL	PANEL

RCPT	RECEPTACLE
R	RELAY
S	STARTER
SPD	SURGE PROTECTION DEVICE
SPST	SINGLE POLE SINGLE THROW
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TYP	TYPICAL
UG	UNDERGROUND
UGE	UNDERGROUND ELECTRIC
V	VOLTS
W/	WITH
W/O	WITHOUT
WP	WEATHER PROOF
XFER	TRANSFER
XFMR	TRANSFORMER

	CONDUIT (EXPOSED)
	CONDUIT OR UNIT DUCT (CONCEALED OR BURIED)
	DUCT
	BURIED/UNDERGROUND ELECTRIC
	CABLE IN UNIT DUCT (1= CIRCUIT NUMBER)
	OVERHEAD ELECTRIC
	POLE MOUNTED HID FIXTURE
	WALL OR CEILING MTD. JUNCTION BOX. CONFIGURATION VARIES WITH USE
	SINGLE THROW DISCONNECT SWITCH
	SINGLE THROW, FUSIBLE DISCONNECT SWITCH
	ENCLOSED CIRCUIT BREAKER
	PAD MOUNT POWER DIST. & CONTROL PANEL
	MOTOR
	TRANSFORMER
	ELECTRIC UTILITY METER
	ENCLOSURE
	CIRCUIT BREAKER PANEL-SEE SCHEDULES
	GROUND ROD

- NOTES:
- ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN CONFORMANCE WITH NFPA 70 (MOST CURRENT ISSUE IN FORCE), THE RESPECTIVE EQUIPMENT MANUFACTURER'S DIRECTIONS AND ALL OTHER APPLICABLE LOCAL CODES, LAWS, ORDINANCES, AND REQUIREMENTS IN FORCE. ANY INSTALLATIONS WHICH VOID THE U.L. LISTING, ETL LISTING (OR OTHER THIRD PARTY LISTING) AND/OR THE MANUFACTURER'S WARRANTY OF A DEVICE SHALL NOT BE PERMITTED.
 - CONTRACTOR SHALL COORDINATE WORK AND ANY POWER OUTAGES WITH THE RESPECTIVE FACILITY OWNER PERSONNEL AND THE AIRPORT MANAGER.
 - COLOR CODE PHASE AND NEUTRAL CONDUCTOR INSULATION FOR NO. 6 AWG OR SMALLER. PROVIDE COLORED INSULATION OR COLORED MARKING TAPE FOR PHASE AND NEUTRAL CONDUCTORS FOR NO. 4 AWG AND LARGER. INSULATED GROUND CONDUCTORS SHALL HAVE GREEN COLORED INSULATION FOR ALL CONDUCTOR AWG AND/OR KCMIL. STANDARD COLORS FOR POWER WIRING AND BRANCH CIRCUITS SHALL BE AS FOLLOWS:

208/120 VAC, 3 PHASE, 4 WIRE
 PHASE A BLACK
 PHASE B RED
 PHASE C BLUE
 NEUTRAL WHITE
 GROUND GREEN

No.	Drawing Issue Description	Date	By

Date
 MARCH 25, 2005
 Sheet Title

ELECTRICAL LEGEND
 AND ABBREVIATIONS

840-04D8041
 Project Number
 KNL 03-08-05
 Layout By Date
 KNL 03/08/05
 Designed By Date
 CAH 03/08/05
 Reviewed By Date
 MV
 Drawn By Sheet No.

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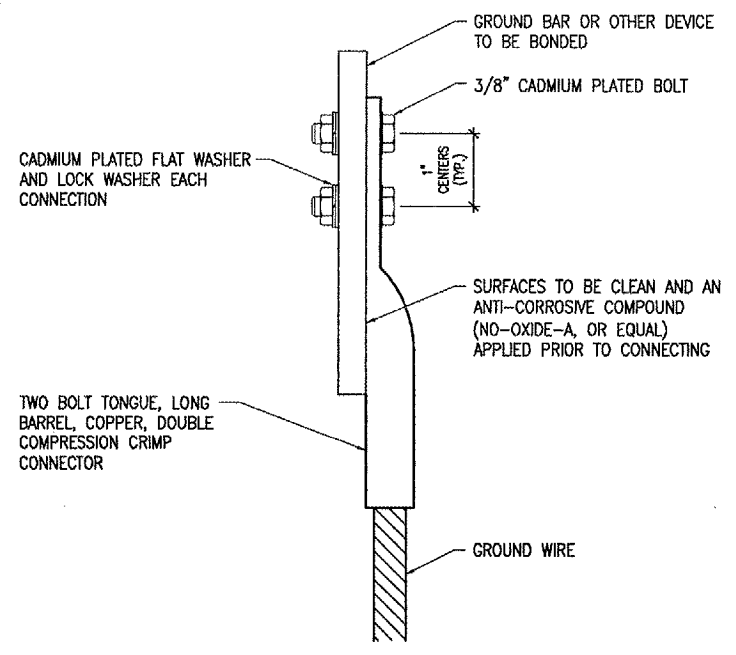
HANSON PROFESSIONAL SERVICES INC.
 815 Commerce Drive, Suite 200
 Oak Brook, Illinois 60523
 Telephone: 630.990.3800
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 1 Hangar Road
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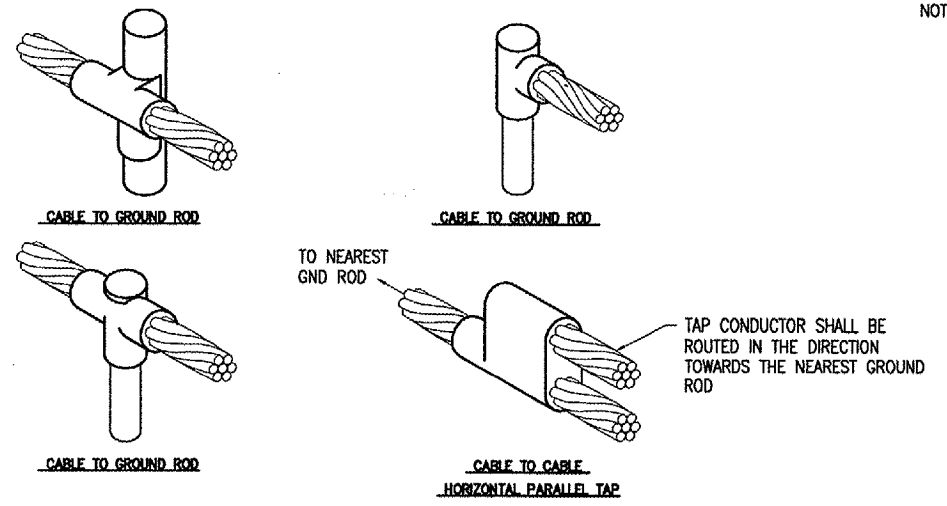
AIP PROJECT NO. 3-17-0140-B38
 IDA PROJECT NO. LOT-3441



2 HOLE LONG BARREL COMPRESSION LUG TABLE		
WIRE SIZE	BURNDY CAT. NO.	THOMAS & BETTS CAT. NO.
#8 AWG STRANDED	YA8C-2TC38	256-30695-1157
#6 AWG STRANDED	YA6C-2TC38	256-30695-1158
#2 AWG STRANDED	YA2C-2TC38	256-30695-1160
#1/0 AWG STRANDED	YA25-2TC38	256-30695-1162
#2/0 AWG STRANDED	YA26-2TC38	256-30695-1116
#3/0 AWG STRANDED	YA27-2TC38	54816BE

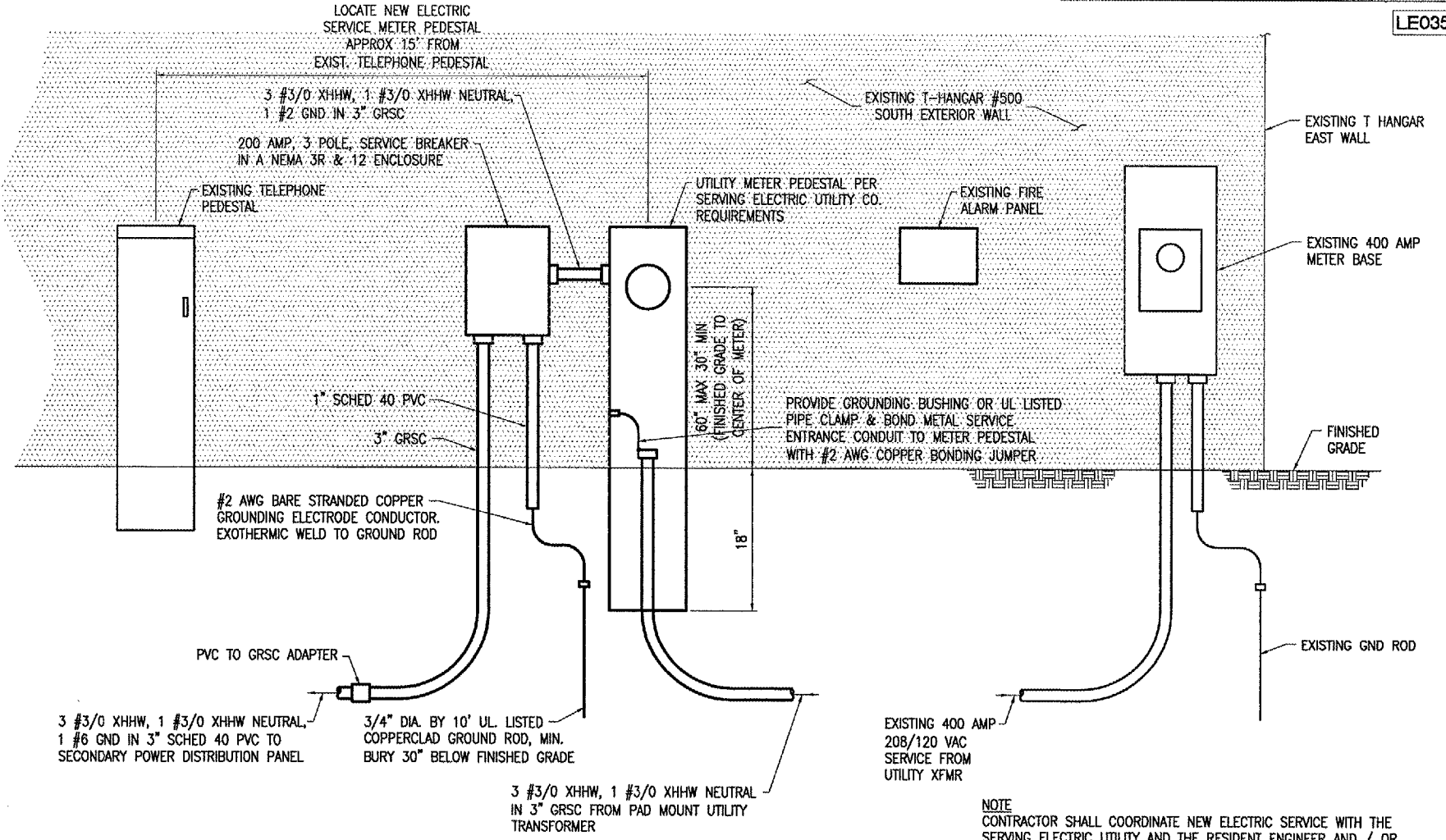
- NOTES**
- ALL CONNECTIONS TO GROUND BUS BAR SHALL BE WITH 2 HOLE TONGUE LONG BARREL COMPRESSION LUGS BOLTED TO THE BUS BAR.
 - GROUND WIRE CONNECTIONS TO EQUIPMENT SHALL BE WITH 2 HOLE TONGUE LONG BARREL COMPRESSION LUGS BOLTED TO THE DEVICE OR WITH THE RESPECTIVE EQUIPT MANUFACTURER'S LUG OR TERMINAL WHERE APPLICABLE.
 - GROUNDING ELECTRODE CONDUCTORS, BONDING JUMPERS, & INDIVIDUAL GROUND WIRES SHALL NOT BE INSTALLED IN METAL CONDUIT.
 - ALL CONNECTIONS SHALL BE COATED WITH A CORROSION PREVENTATIVE COMPOUND (NO-OXIDE-A, OR EQUAL) BEFORE JOINING. ALL COPPER BUS BARS SHALL BE CLEANED PRIOR TO MAKING CONNECTIONS TO REMOVE SURFACE OXIDATION. CLEAN SURFACES, OF RESPECTIVE DEVICES TO BE BONDED, TO BARE METAL, PER NEC 250-12.

GROUNDING LUG CONNECTION DETAIL



- DETAIL NOTES**
- EXOTHERMIC WELDS SHALL BE CADWELD AS MANUFACTURED BY ERICO PRODUCTS, SOLON, OHIO OR THERMOWELD AS MANUFACTURED BY CONTINENTAL INDUSTRIES, TULSA, OKLAHOMA. VERIFY PROPER SIZES, TYPES, AND REQUIREMENTS FOR THE RESPECTIVE APPLICATION WITH THE MANUFACTURER, AND INSTALL PER THEIR DIRECTIONS.
 - FOR APPLICATIONS TO METAL SURFACES THAT ARE LESS THAN 3/16" THICK CONTACT THE EXOTHERMIC WELD MANUFACTURER FOR DIRECTION AND INSTRUCTION ON EXOTHERMIC WELD INSTALLATION TO THE RESPECTIVE SURFACE.
 - FOR APPLICATIONS TO GALVANIZED STEEL OR PAINTED STEEL, REMOVE GALVANIZING AND/OR PAINT & CLEAN THE SURFACE TO EXPOSE BARE STEEL BEFORE MAKING EXOTHERMIC WELD CONNECTION.
 - INDIVIDUAL GROUNDING ELECTRODE CONDUCTORS SHALL NOT BE INSTALLED IN METAL CONDUIT. INSTALL GROUNDING ELECTRODE CONDUCTORS IN SCHED 40 PVC CONDUIT AS REQUIRED IN FOUNDATIONS, FOR PROTECTION, WHERE ENTERING ENCLOSURES, ETC.

EXOTHERMIC WELD DETAILS



SERVICE ENTRANCE ELEVATION
 NOT TO SCALE

NOTE
 CONTRACTOR SHALL COORDINATE NEW ELECTRIC SERVICE WITH THE SERVING ELECTRIC UTILITY AND THE RESIDENT ENGINEER AND / OR AIRPORT MANAGER. THE SERVING ELECTRIC UTILITY CONTACT IS COM ED NEW ELECTRIC SERVICE DEPT. PHONE: 1-866-639-3532 AND MS. KRIESNA KIRKLAND, SERVICE ENGINEER, COM ED, 1910 SOUTH BRIGGS ST., JOLIET, IL 60433, PHONE: 1-815-724-5805.

No.	Drawing Issue Description	Date	By

Date
 MARCH 25, 2005
 Sheet Title

SERVICE ENTRANCE ELEVATION AND GROUNDING DETAILS

840-04D8041
 Project Number
 KNI 03-08-05
 Layout By Date
 KNI 03/08/05
 Designed By Date
 CAH 03/08/05
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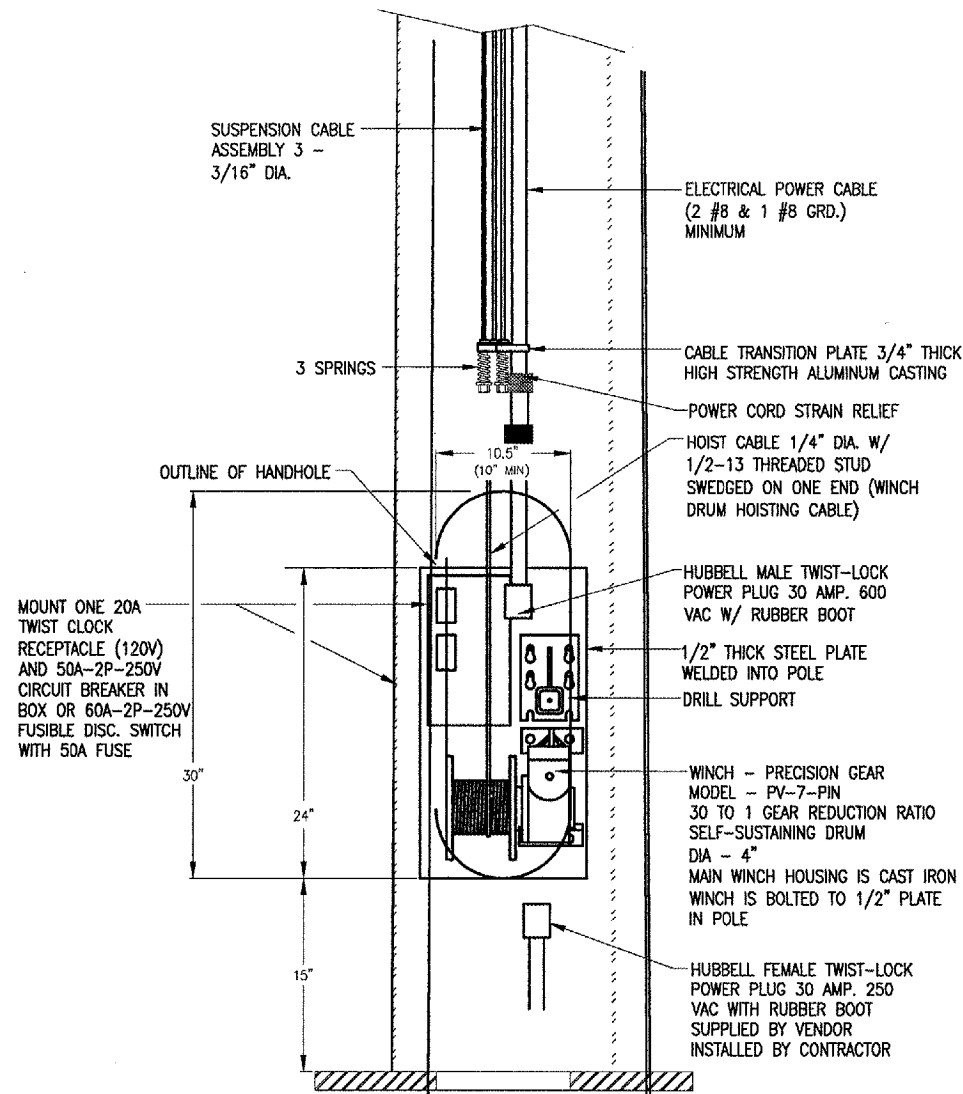


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 GA APRON, AVGAS FUELING APRON
 AND AUTO PARK 100

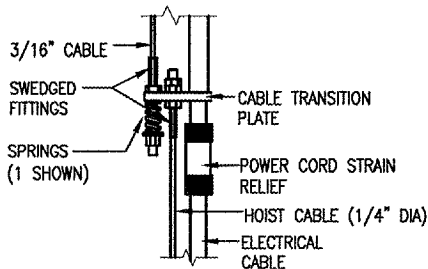
AIP PROJECT NO. 3-17-0140-B38
 IDA PROJECT NO. LOT-3441



**SECTION THRU POLE
 WINCH AND CABLE ASSEMBLY**

MOUNT ONE 20A
 TWIST CLOCK
 RECEPTACLE (120V)
 AND 50A-2P-250V
 CIRCUIT BREAKER IN
 BOX OR 60A-2P-250V
 FUSIBLE DISC. SWITCH
 WITH 50A FUSE

SUSPENSION CABLE ASSEMBLY 3 - 3/16" DIA.
 ELECTRICAL POWER CABLE (2 #8 & 1 #8 GRD.) MINIMUM
 3 SPRINGS
 CABLE TRANSITION PLATE 3/4" THICK HIGH STRENGTH ALUMINUM CASTING
 POWER CORD STRAIN RELIEF
 HOIST CABLE 1/4" DIA. W/ 1/2-13 THREADED STUD SWEDGED ON ONE END (WINCH DRUM HOISTING CABLE)
 HUBBELL MALE TWIST-LOCK POWER PLUG 30 AMP. 600 VAC W/ RUBBER BOOT
 1/2" THICK STEEL PLATE WELDED INTO POLE
 DRILL SUPPORT
 WINCH - PRECISION GEAR MODEL - PV-7-PIN 30 TO 1 GEAR REDUCTION RATIO SELF-SUSTAINING DRUM DIA - 4" MAIN WINCH HOUSING IS CAST IRON WINCH IS BOLTED TO 1/2" PLATE IN POLE
 HUBBELL FEMALE TWIST-LOCK POWER PLUG 30 AMP. 250 VAC WITH RUBBER BOOT SUPPLIED BY VENDOR INSTALLED BY CONTRACTOR

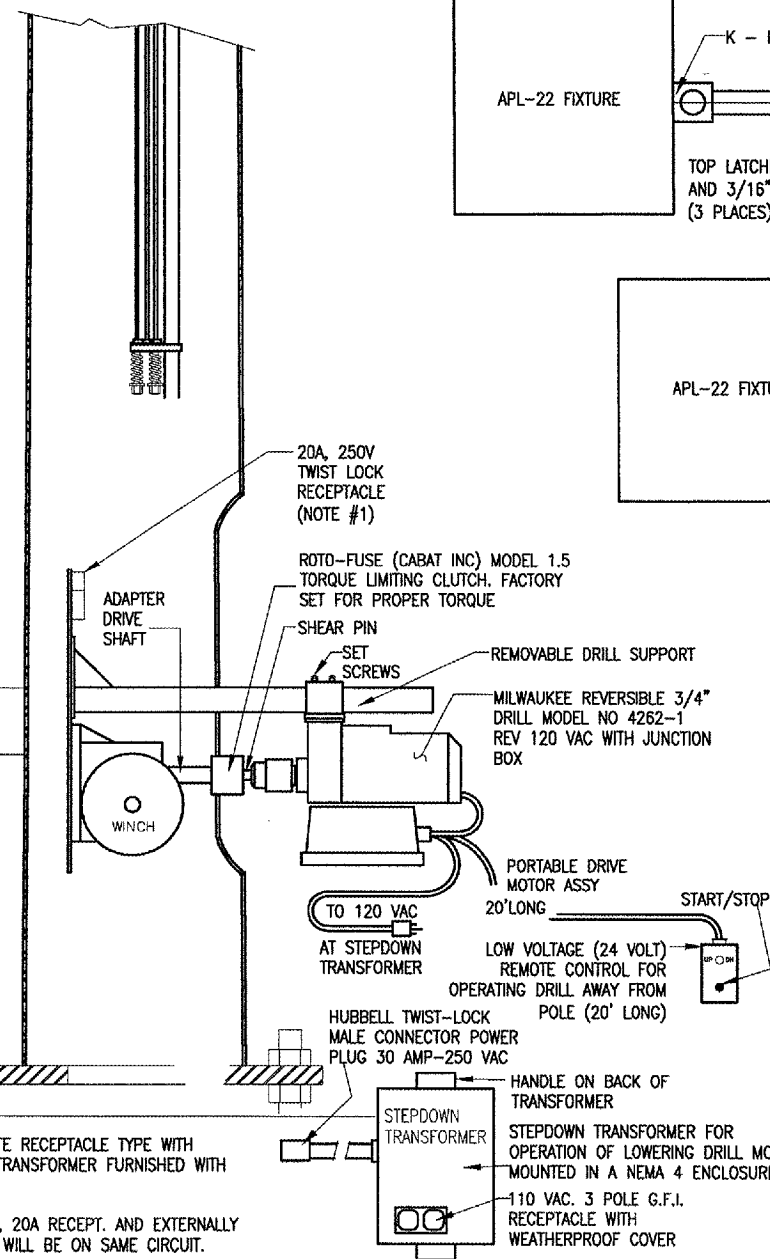


1/4 HOIST CABLE DETAIL

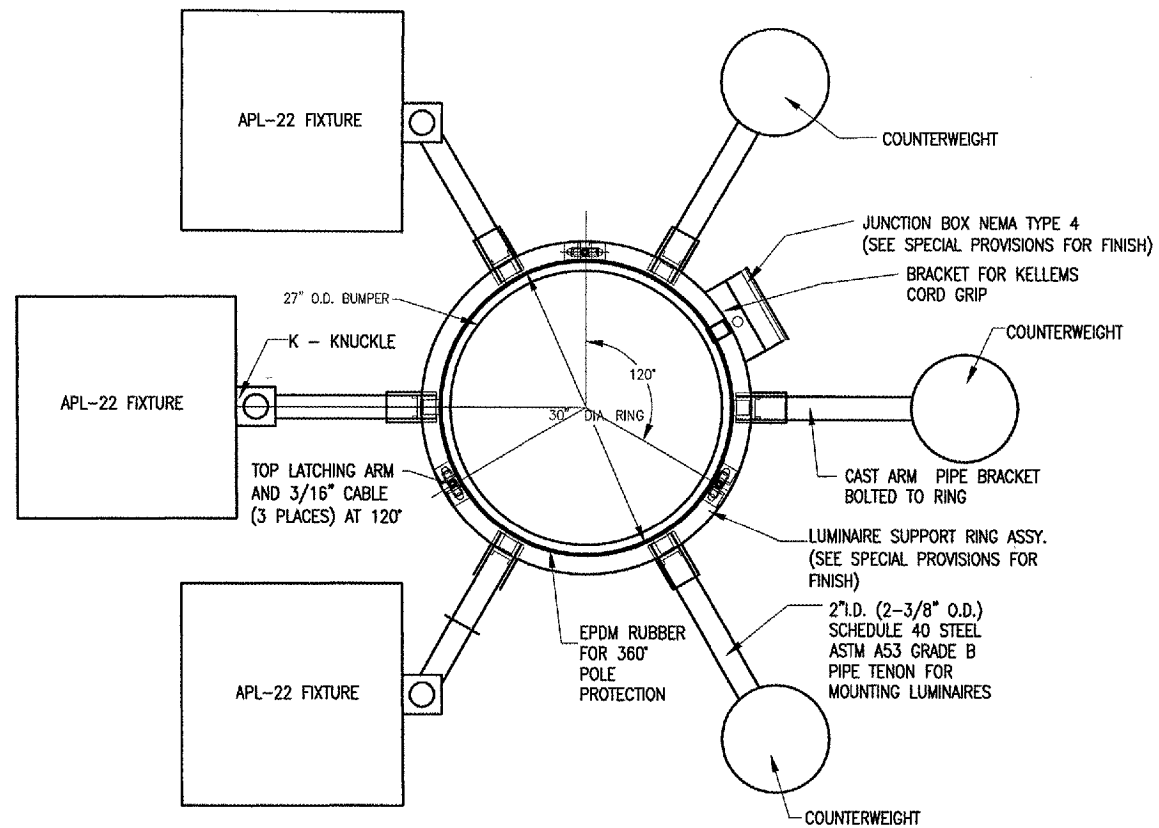
20A, GFI TYPE DUPLEX RECEPTACLE IN WP. BOX, PAINT TO MATCH FINISH

NOTES:

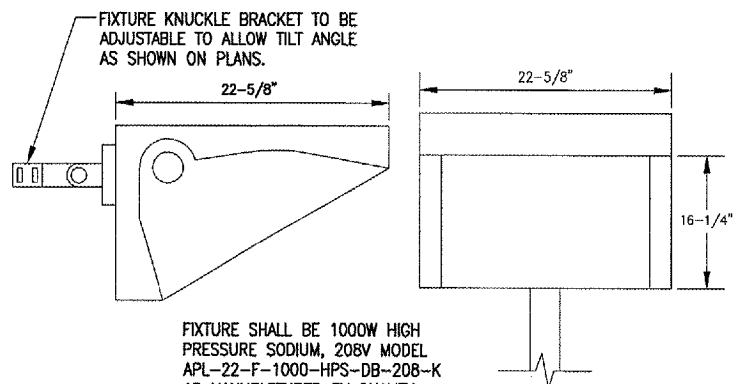
- VENDOR TO COORDINATE RECEPTACLE TYPE WITH PORTABLE STEPDOWN TRANSFORMER FURNISHED WITH LOWERING DEVICE.
- INSIDE MOUNTED 120V, 20A RECEPT. AND EXTERNALLY MOUNTED RECEPTACLE WILL BE ON SAME CIRCUIT.
- PROVIDE LIGHTNING ARRESTORS AT EACH POLE. INSTALL AT HANDHOLE. SEE SPECIAL PROVISIONS.



LOWERING DEVICE DETAIL



PLAN VIEW OF RING



LIGHT FIXTURE

FIXTURE SHALL BE 1000W HIGH PRESSURE SODIUM, 208V MODEL APL-22-F-1000-HPS-DB-208-K AS MANUFACTURED BY QUALITY LIGHTING OR EQUAL-DARK BRONZE POWDER FINISH - (3 PER POLE).

No.	Drawing Issue Description	Date	By

Date
 MARCH 25, 2005
 Sheet Title

**HIGH-MAST FIXTURE AND
 LOWERING DEVICE
 DETAILS**

840-04D8041
 Project Number
 Layout By Date
 Designed By Date
 Reviewed By Date
 Drawn By Date

P: [04-1065] [00840] [0408041] [DRAWINGS] [SHEETS] [49-FUTURE AND LOWERING DEVICE DETAILS.DWG, MAR 28, 2005 12:15PM, TMM]



HANSON PROFESSIONAL SERVICES INC.

815 Commerce Drive, Suite 200
Oak Brook, Illinois 60523
Telephone: 630.990.3800
Fax: 630.990.3801

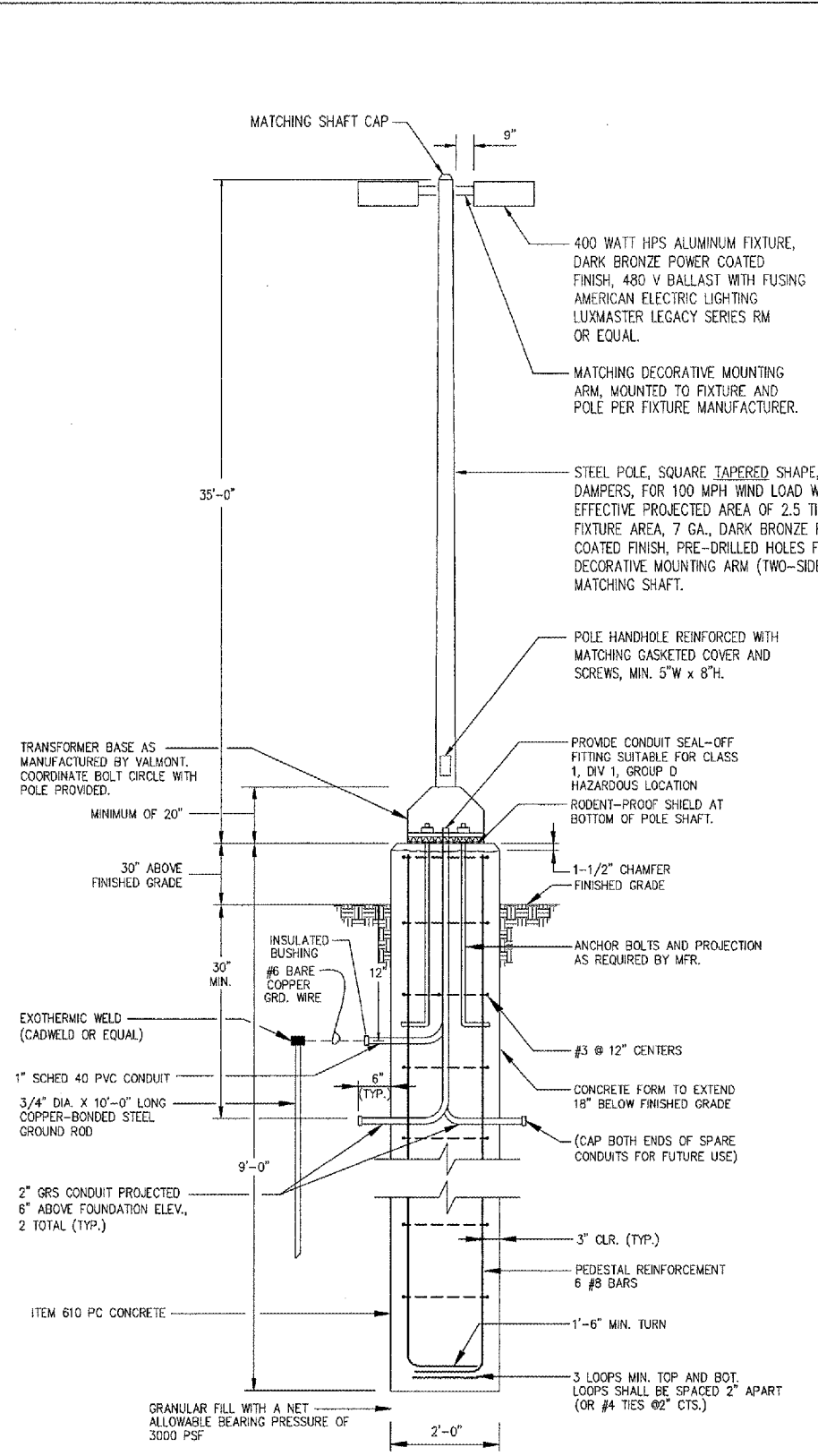


JOLIET REGIONAL PORT DISTRICT

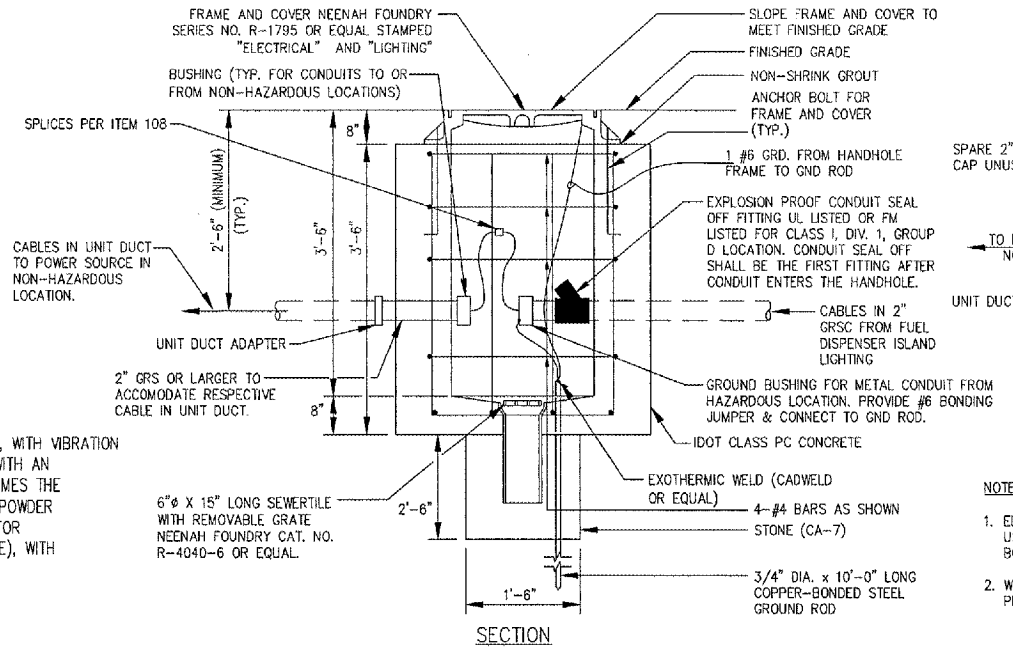
1 Hangar Road
Romeoville, Illinois 60446
Telephone: 815.838.9497
Fax: 815.838.9524

EXTEND TAXIWAY E; CONSTRUCT
GA APRON, AVGAS FUELING APRON
AND AUTO PARK 100

AIP PROJECT NO. 3-17-0140-B38
IDA PROJECT NO. LOT-3441

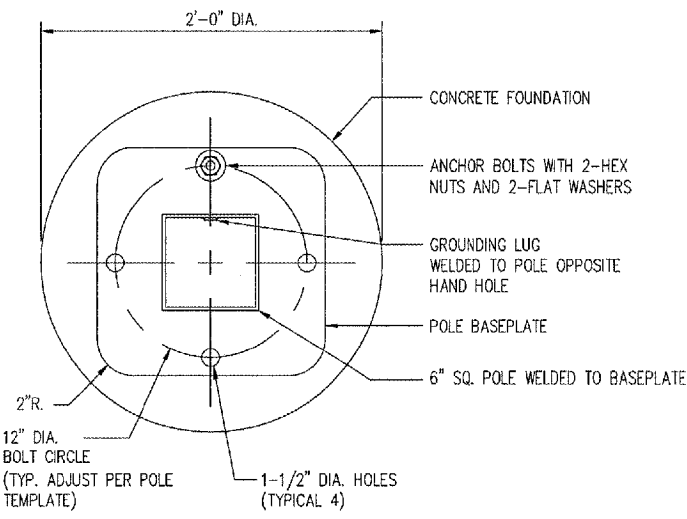


FUELING APRON LIGHT POLE FOUNDATION

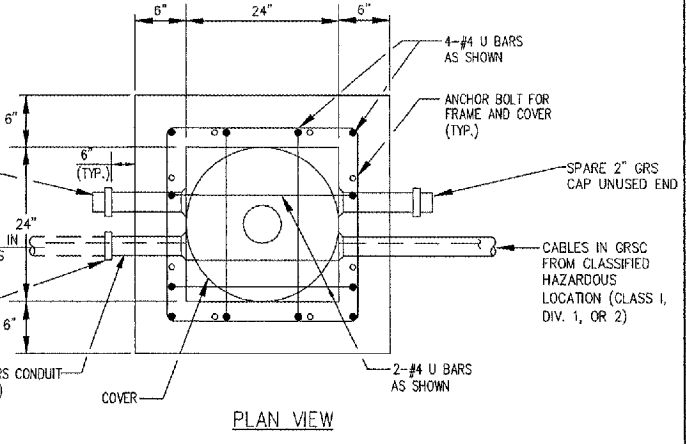


PRE-CAST ELECTRICAL HANDHOLE DETAIL

SEE SPECIAL PROVISIONS

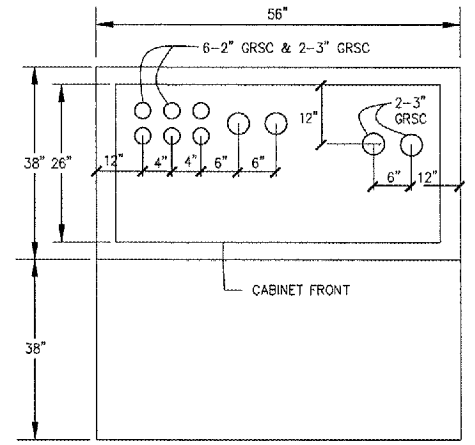


FUELING APRON LIGHTING POLE BASE

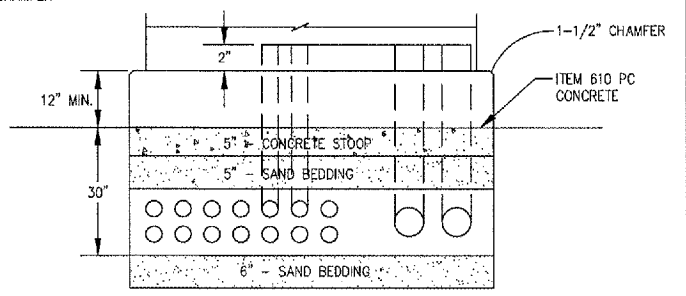


NOTES

- ELECTRICAL HANDHOLE DETAIL SHOWN IS FOR USE AS A CLASSIFIED HAZARDOUS LOCATION BOUNDARY TRANSITION POINT.
- WHERE SPICES ARE MADE IN HANDHOLE PROVIDE 10 FEET OF SLACK CABLE.

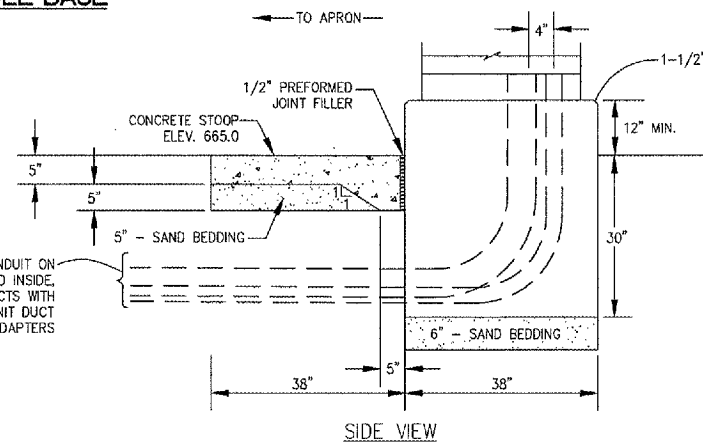


DISTRIBUTION PANEL FOUNDATION



NOTES

- SEE DISTRIBUTION CABINET DETAILS AND SCHEMATIC SHEET FOR ADDITIONAL INFORMATION.
- ALL PANEL FOUNDATION WORK INCLUDED IN ITEM AR109400.



DISTRIBUTION PANEL FOUNDATION

DETAILS SHOWN ARE NOT TO SCALE

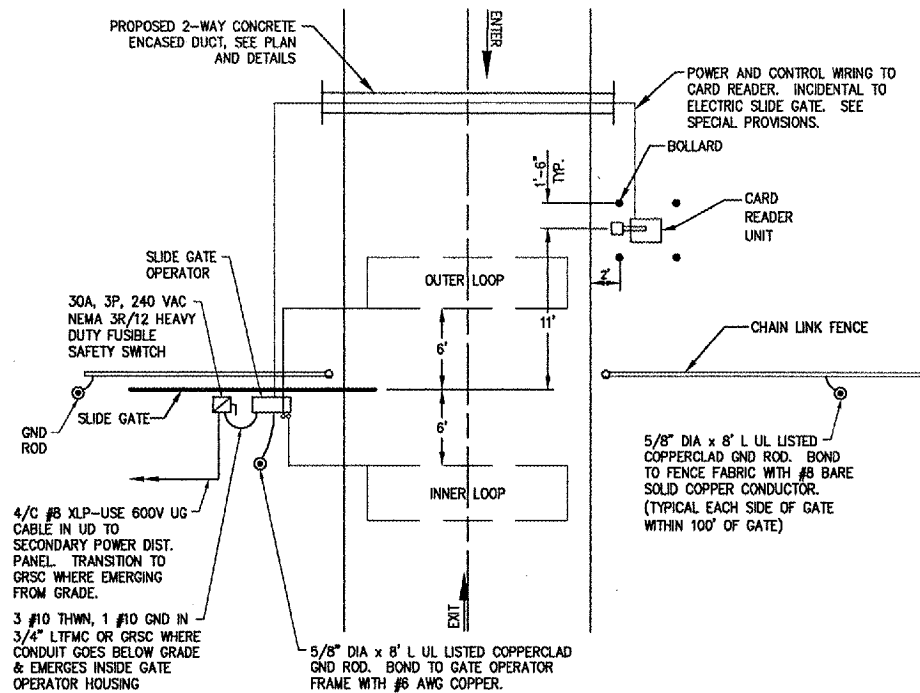
No.	Drawing Issue Description	Date	By

Date
MARCH 25, 2005
Sheet Title

ELECTRICAL FOUNDATIONS AND DETAILS

840-04D8041
Project Number
LDH 03/15/05
Layout By Date
LDH/TMM 03/15/05
Designed By Date
RMH 03/16/05
Reviewed By Date
LDH |---|
Drawn By Date

4: [04]035 [028]40 [040]041 [DRAWINGS] [SHEETS] [50-35] LIGHT IDN AND DETAILS.DWG MAR 28, 2005 12:16PM TMM



PLAN VIEW

VEHICLE DETECTOR LOOPS		
GATE SIZE	LOOP SIZE	NO. OF TURNS
8' TO 12'	4' X 6'	3 TURNS
12' TO 16'	4' X 10'	2 TURNS
16' TO 20'	4' X 14'	2 TURNS
20' TO 24'	4' X 18'	2 TURNS
24' TO 30'	6' X 22'	2 TURNS
30' TO 34'	6' X 26'	2 TURNS

NOTES

- SEE SPECIAL PROVISION SPECIFICATIONS FOR REQUIREMENTS ON GATE & GATE OPERATOR SYSTEM.
- ALL DIMENSIONS AND LAYOUT INFORMATION SHOWN SHOULD BE ADJUSTED AS RECOMMENDED BY THE MANUFACTURER.
- CONCRETE FOUNDATIONS SHALL BE PROVIDED FOR THE SLIDE GATE OPERATOR AND THE CARD READER CONTROL UNIT. FOUNDATION FOR THE GATE OPERATOR SHALL BE 48" (MIN.) IN DEPTH AND OF THE SIZE RECOMMENDED BY THE MANUFACTURER. FOUNDATION FOR THE CARD READER ACCESS CONTROL UNIT SHALL BE 48" (MIN.) IN DEPTH, AS DETAILED HEREIN.
- 1" GRS CONDUIT WILL BE REQUIRED BETWEEN THE SLIDE GATE OPERATOR AND THE CARD READER ACCESS CONTROL UNIT AND BETWEEN THE SLIDE GATE OPERATOR AND THE DETECTOR LOOPS. THE MINIMUM BURYING DEPTH IS 24". ALL METAL CONDUITS ENTERING THE GATE OPERATOR SHALL BE BONDED TO THE GATE OPERATOR FRAME WITH A #8 AWG (MIN.) COPPER BONDING JUMPER. CONFIRM CONTROL WIRING REQUIREMENTS WITH THE RESPECTIVE GATE OPERATOR SALES AND SERVICE REPRESENTATIVE.
- THE GUARD/BOLLARD POSTS SHALL BE 6" DIA. STEEL (HEAVY WALL) PIPE, CONCRETE FILLED, AND SHALL EXTEND FROM THE TOP OF THE CARD CONTROL UNIT TO A DEPTH OF 48" BELOW THE GROUND LINE. THE CONCRETE FOOTER DIMENSION SHALL BE AS DETAILED HEREIN. GUARD/BOLLARD POSTS SHALL BE PAINTED WITH YELLOW COLORED ENAMEL FINISH.
- THE SLIDING GATE SHALL BE CANTILEVER TYPE OF THE SIZE CALLED FOR ON THE PLANS WITH AN ENCLOSED ROLLER ASSEMBLY WHICH IS PROTECTED FROM FREEZING RAIN AND SNOW, AND SHALL BE AS MANUFACTURED BY TYPICAL CORPORATION, OR APPROVED EQUAL.
- THE SLIDE GATE OPERATOR IS TO BE MOUNTED ON A STEEL PLATFORM LOCATED APPROXIMATELY 1'-6" ABOVE THE GROUND. WHERE STEEL PLATFORM IS NOT A STANDARD OPTION EXTEND THE FOOTING/FOUNDATION PAD APPROXIMATELY 6" ABOVE GRADE. SHOP DRAWINGS APPROVAL IS REQUIRED.
- CONTRACTOR SHALL PROVIDE VERIFICATION THAT THE PROPOSED GATE OPERATOR IS SUITABLE FOR USE WITH & PROPERLY SIZED FOR THE RESPECTIVE SLIDE GATE.
- CONTRACTOR SHALL COORDINATE ANY POWER OUTAGES TO EXISTING EQUIPMENT WITH THE RESPECTIVE OWNER'S REPRESENTATIVE AND THE AIRPORT MANAGER.
- INCLUDE LOW VOLTAGE LINE PROTECTOR FOR THE CARD READER ACCESS CONTROL UNIT SUITABLE FOR USE ON THE RESPECTIVE CONTROL VOLTAGE SYSTEM, WITH SURGE CURRENT MAXIMUM RATING OF 3000 AMPS, LIFETIME PRODUCT REPLACEMENT WARRANTY AND AS RECOMMENDED BY THE KEYPAD ACCESS CONTROL UNIT MANUFACTURER'S REPRESENTATIVE.
- INCLUDE UL LISTED SECONDARY SURGE ARRESTER FOR THE GATE OPERATOR SUITABLE FOR USE ON 208 VAC, 3 PHASE, 3 WIRE PLUS GROUND SYSTEM, WITH SURGE CURRENT RATING OF 75 KA PER MODE, LIFETIME PRODUCT REPLACEMENT WARRANTY, AND AS RECOMMENDED BY THE GATE OPERATOR MANUFACTURER'S REPRESENTATIVE.
- INCLUDE LIGHTNING PROTECTION/SURGE ARRESTERS FOR THE DETECTOR AMPLIFIERS, AS RECOMMENDED BY THE MANUFACTURER.
- CONCRETE USED FOR INSTALLING THE GATE OPERATOR, CARD READER, & FENCE SHALL MEET THE REQUIREMENTS OF STRUCTURAL PORTLAND CEMENT CONCRETE ITEM ARG10.
- AS PART OF THIS ITEM 125 CARDS AND 5 REMOTE TRANSMITTER FOR EACH GATE SHALL BE PROVIDED BY THE CONTRACTOR. COORDINATE PROGRAMMING OF CARDS & TRANSMITTER FREQUENCIES WITH THE AIRPORT MANAGER.
- CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT THE ELECTRIC GATE OPERATOR, SLIDE GATE, & ALL ASSOCIATED POWER & CONTROL DEVICES ARE COMPATIBLE WITH EACH OTHER & SUITABLE FOR THE RESPECTIVE APPLICATION TO PROVIDE A COMPLETE AND PROPERLY OPERATIONAL ELECTRIC SLIDE GATE INSTALLATION.
- ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN CONFORMANCE WITH NFPA 70 (MOST CURRENT ISSUE IN FORCE), THE RESPECTIVE EQUIPMENT MANUFACTURER'S DIRECTIONS AND ALL OTHER APPLICABLE LOCAL CODES, LAWS, ORDINANCES, AND REQUIREMENTS IN FORCE. ANY INSTALLATIONS WHICH VOID THE UL LISTING, ETL LISTING, (OR OTHER THIRD PARTY LISTING) AND/OR THE MANUFACTURER'S WARRANTY OF A DEVICE SHALL NOT BE PERMITTED.
- PROVIDE A WEATHERPROOF ENGRAVED PHENOLIC OR PLASTIC LEGEND PLATE FOR THE SAFETY SWITCH AT THE RESPECTIVE GATE OPERATOR NOTING THE GATE SERVED, VOLTAGE, AND RESPECTIVE POWER SOURCE CIRCUIT AND LOCATION.
- CARD GATE TO MEET THE SAME SPECIFICATION AS THE FENCING FOR SIZE, COATINGS, BARBED WIRE, ETC., SEE FENCING DETAILS.

No.	Drawing Issue Description	Date	By

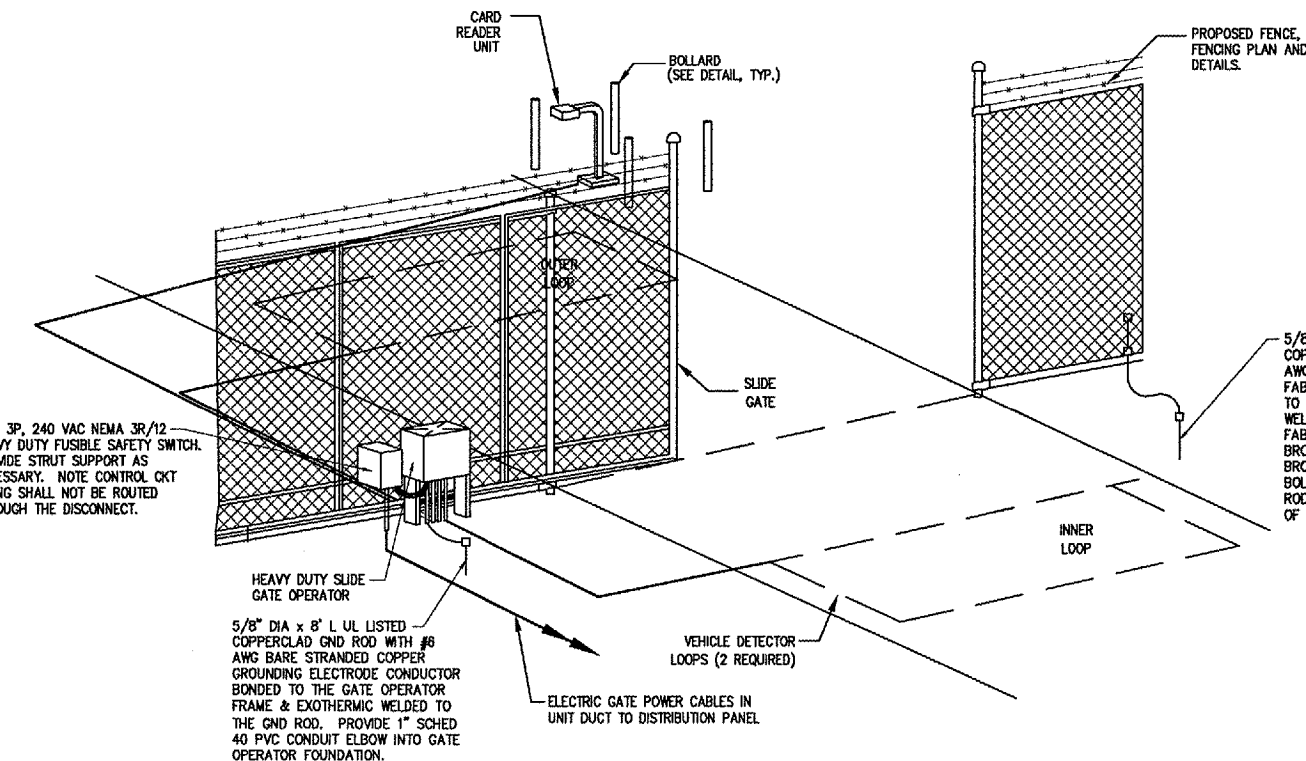
Date _____
 MARCH 25, 2005
 Sheet Title _____

ELECTRIC SLIDING GATE
 PLAN AND DETAILS
 (ADDITIVE NO. 1)

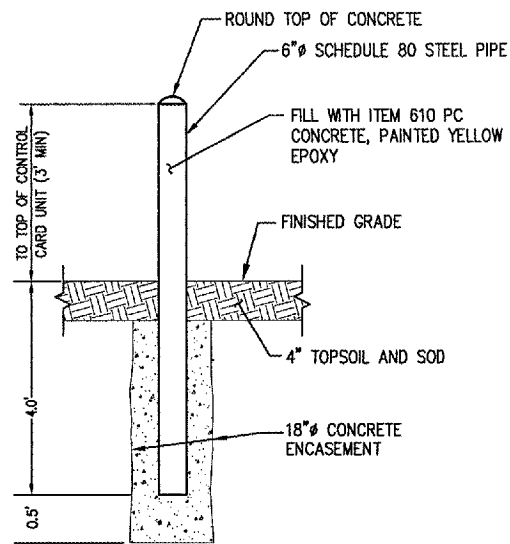
840-0408041
 Project Number
 Layout By _____ Date _____
 Design By _____ Date _____
 Reviewed By _____ Date _____
 Drawn By _____ Date _____
 Sheet No. _____

DETAILS SHOWN ARE NOT TO SCALE

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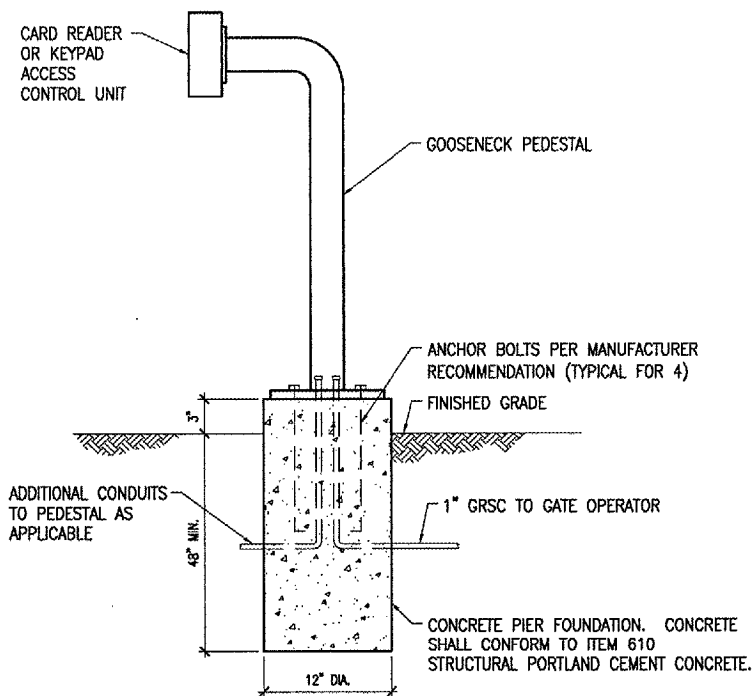
20' AND 24' CARD GATE DETAIL



NOTES

1. THE EXPOSED PORTION OF THE BOLLARD SHALL BE PAINTED YELLOW EPOXY.
2. BOLLARD PAID AS ITEM AR800993 OR ITEM AS800993.

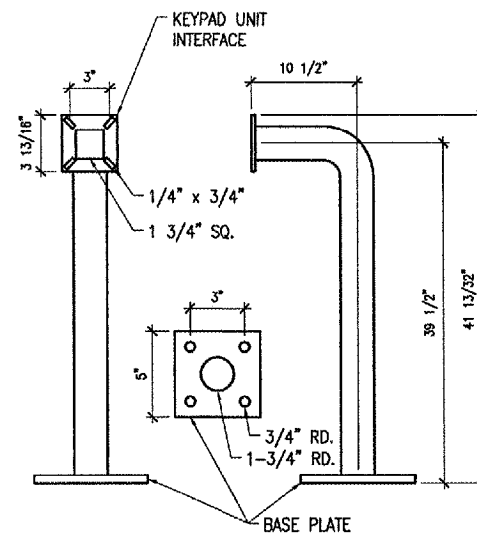
BOLLARD DETAIL



CARD READER/KEYPAD ACCESS CONTROL UNIT PEDESTAL ELEVATION DETAIL

SCALE: NONE

NOTE:
SEE SPECIAL PROVISION SPECS FOR REQUIREMENTS ON CARD READER OR KEYPAD ACCESS CONTROL UNIT.



GOOSENECK PEDESTAL DETAIL

SCALE: NONE

NOTE:
GOOSENECK PEDESTAL SHALL BE AMERICAN ACCESS SYSTEMS, INC. (7079 SOUTH JORDAN RD., UNIT 6, ENGLEWOOD, CO 80112, PHONE: 800-541-5677, FAX 303-799-9756) MODEL 18-001 OR APPROVED EQUAL.

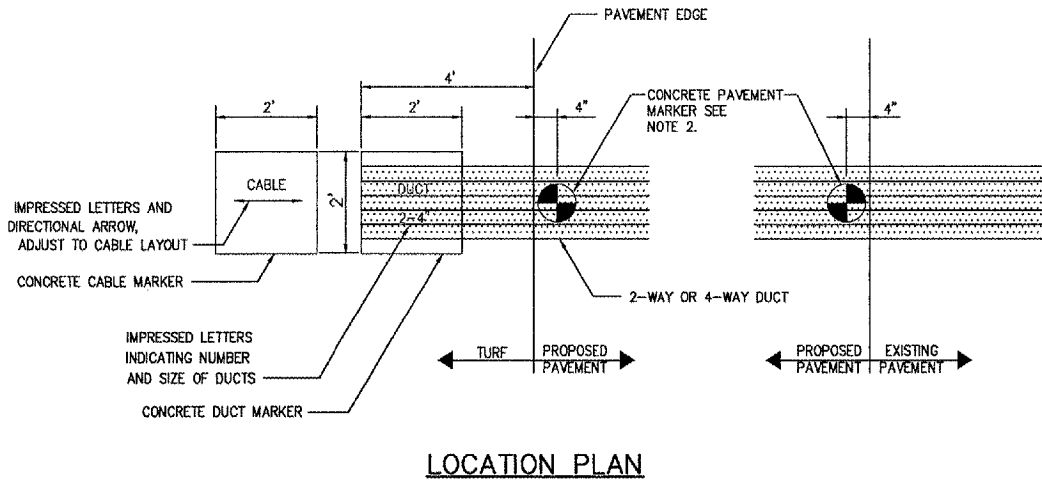
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No.	Drawing Issue Description	Date	By

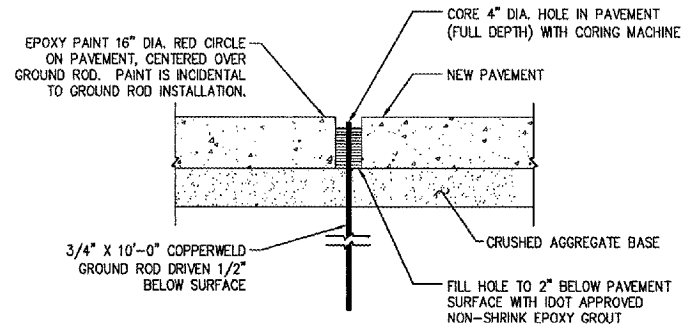
Date
MARCH 25, 2005
Sheet Title

CARD READER AND BOLLARD DETAILS (ADDITIVE NO. 1)

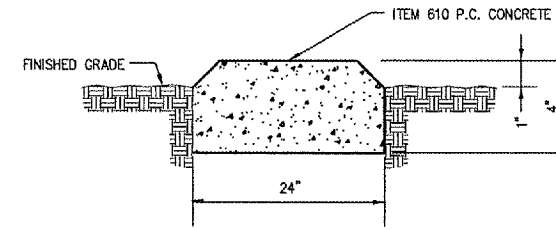
840-0408041	
Project Number	
KNL	03-08-05
Layout By	Date
KNL	03/08/05
Designed By	Date
CAH	03/08/05
Reviewed By	Date
MV	
Drawn By	
	Sheet No.



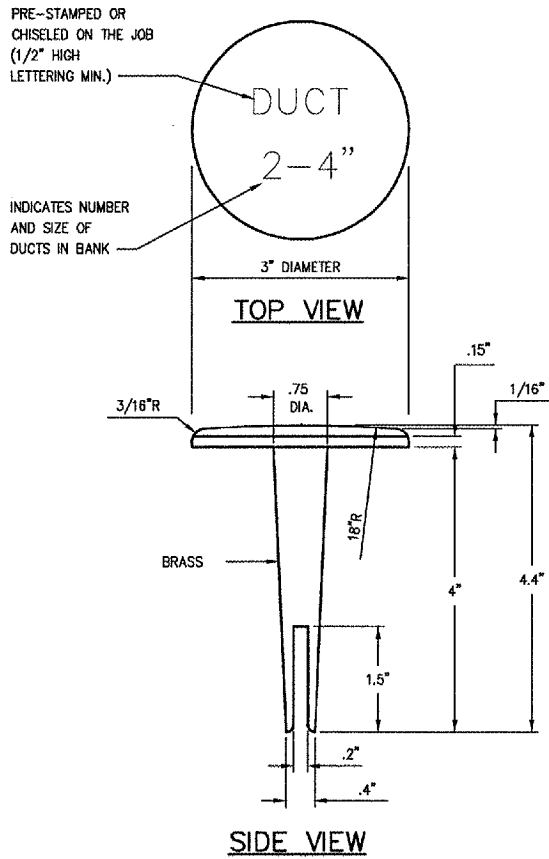
LOCATION PLAN



IN PAVEMENT
GROUND ROD DETAIL

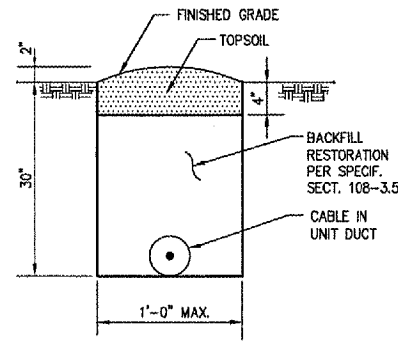


CONCRETE MARKER

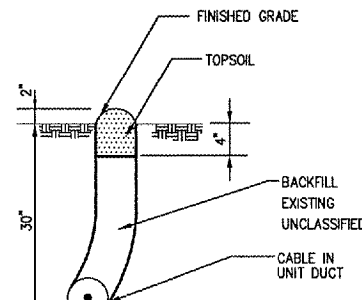


BITUMINOUS
PAVEMENT MARKER

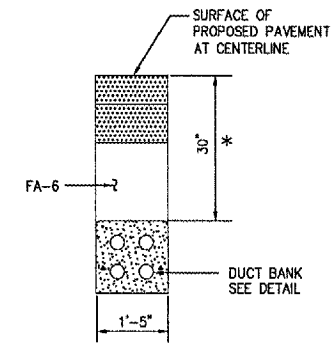
TURF AND PAVEMENT DUCT AND CABLE MARKERS



CABLE IN DUCT



CABLE PLOWED

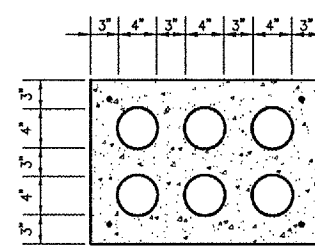


ENCASED DUCT CROSSING UNDER PAVEMENT

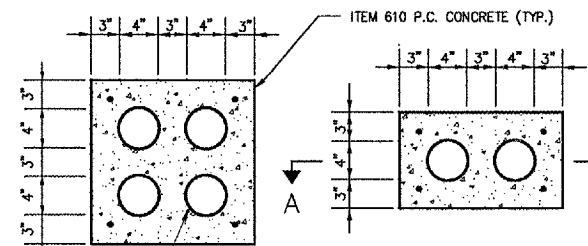
* DEPTH TO BE ADJUSTED SO THAT
TOP OF DUCT ENCASEMENT TO BE 12"
BELOW INVERT OF UNDERDRAIN TUBING

NOTES:

1. THE COSTS OF ALL TURF AND PAVEMENT DUCT MARKERS SHALL BE INCIDENTAL TO THE DUCT. THE COST OF ALL CABLE MARKERS SHALL BE INCIDENTAL TO THE CABLE.
2. BITUMINOUS PAVEMENT DUCT MARKER AND CONCRETE DUCT MARKER TO BE PROVIDED AT EACH END OF EACH DUCT AS SHOWN ON THE LOCATION PLAN. FOR CONCRETE PAVEMENT, THE LETTER "D" SHALL BE IMPRESSED IN THE PAVEMENT INSTEAD OF THE MARKER. THE LETTER SHALL BE FORMED AS DESCRIBED IN NOTE 4.
3. CABLE MARKERS SHALL BE PLACED AT CHANGES OF DIRECTION AND EVERY 200' ALONG CABLE RUNS.
4. LETTERS 4" HIGH, 3" WIDE WITH WIDTH OF STROKE 1/2" AND 1/4" DEEP. ALL LETTERS, NUMBERS AND ARROWS TO BE IMPRESSED.



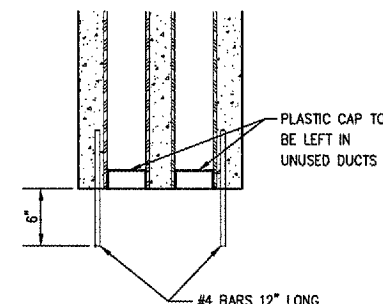
6-WAY



4-WAY

2-WAY

CONCRETE ENCASED DUCTS



SECTION A-A

No.	Drawing Issue	Description	Date	By	

Date
MARCH 25, 2005
Sheet Title

ELECTRIC CABLE,
GROUND ROD AND DUCT
DETAILS

840-04D8041
Project Number
LDH 02/01/05
Layout By Date
LDH/TMM 03/12/05
Designed By Date
RMH 03/16/05
Reviewed By Date
LDH
Drawn By



HANSON PROFESSIONAL SERVICES INC.
815 Commerce Drive, Suite 200
Oak Brook, Illinois 60523
Telephone: 630.990.3800
Fax: 630.990.3801

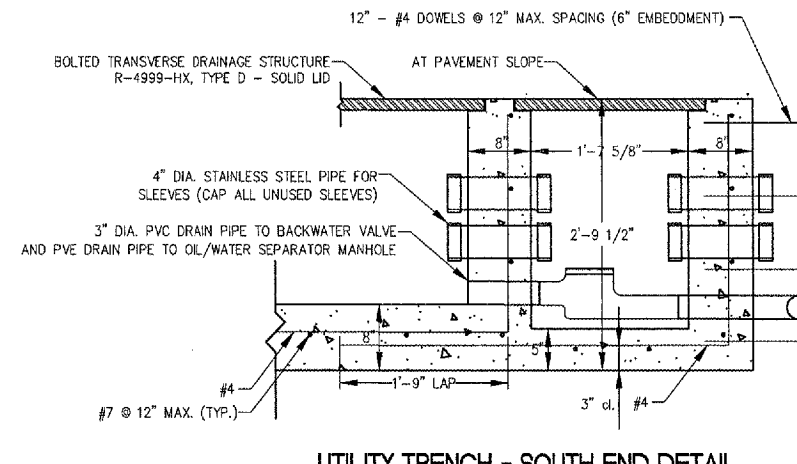
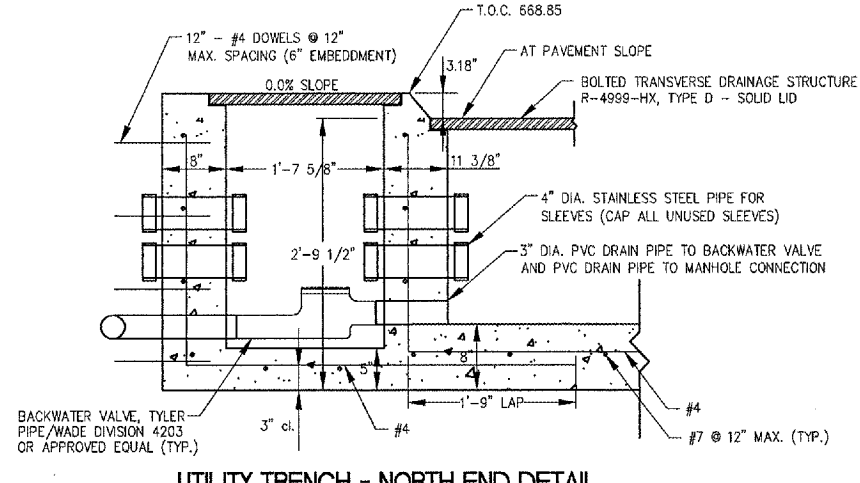
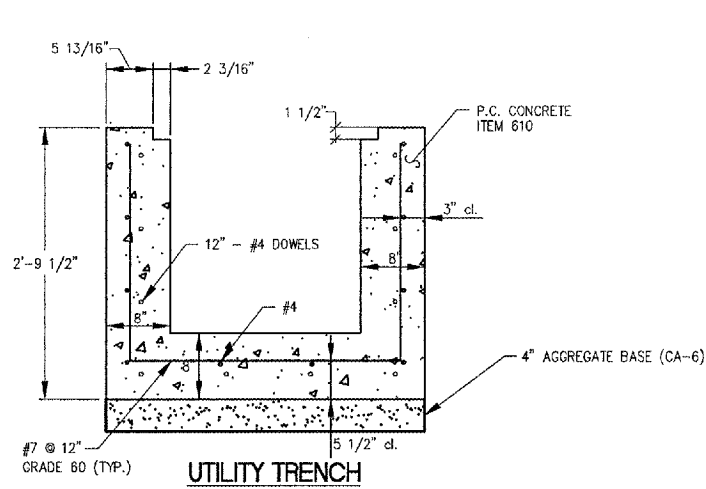


JOLIET REGIONAL PORT DISTRICT

1 Hangar Road
Romeoville, Illinois 60446
Telephone: 815.838.9497
Fax: 815.838.9524

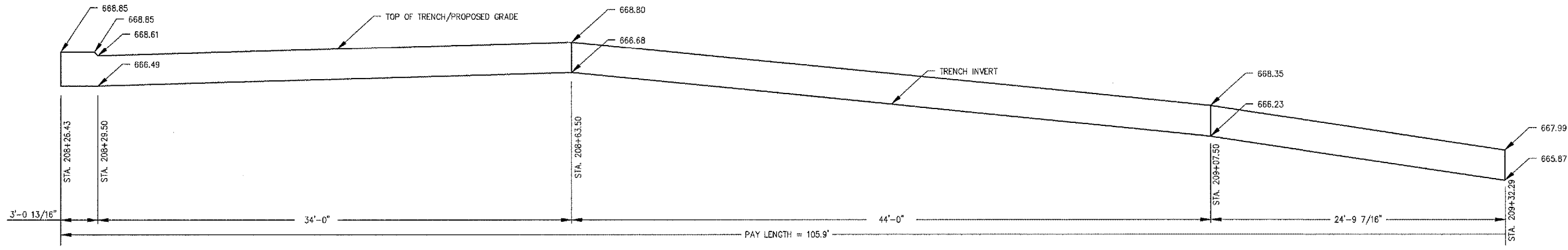
**EXTEND TAXIWAY E; CONSTRUCT
GA APRON, AVGAS FUELING APRON
AND AUTO PARK 100**

**AIP PROJECT NO. 3-17-0140-B38
IDA PROJECT NO. LOT-3441**



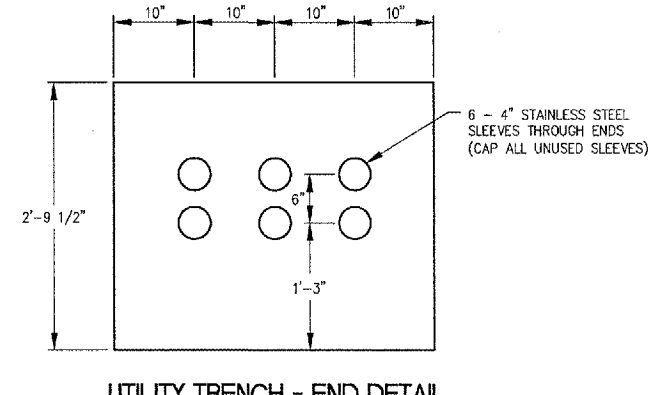
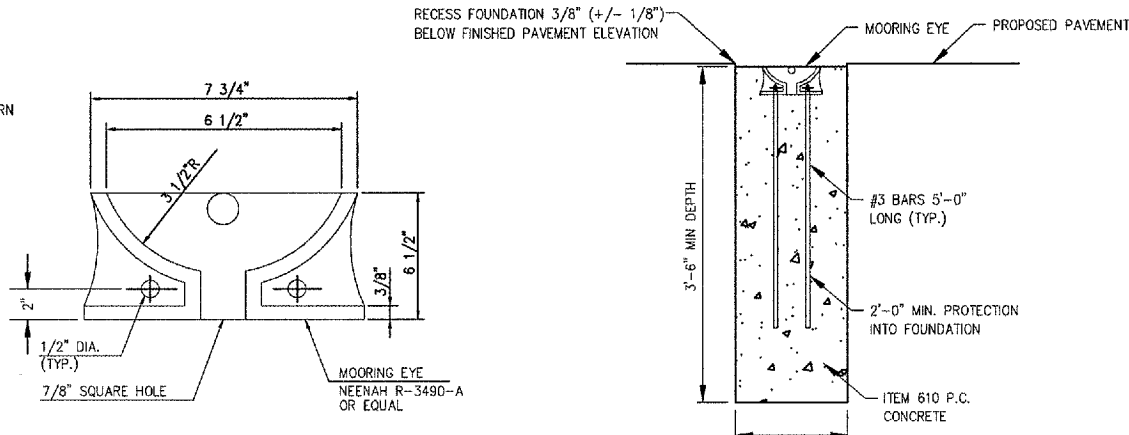
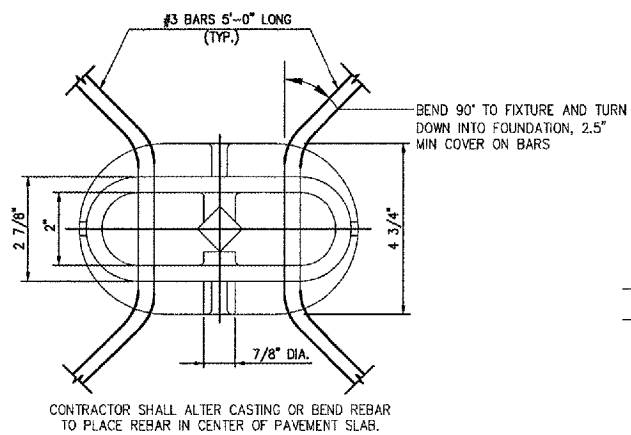
* SEE DRAINAGE SCHEDULE FOR PIPE SLOPE.

* SEE DRAINAGE SCHEDULE FOR PIPE SLOPE.



AR800991 - UTILITY TRENCH

- NOTES:**
- 1. ALL ITEMS INCIDENTAL TO UTILITY TRENCH, ITEM AR800991



TIE DOWN (MOORING EYE)

UTILITY TRENCH - END DETAIL
(TYPICAL EACH END)

No.	Drawing Issue Description	Date	By

Date MARCH 25, 2005

Sheet Title

UTILITY TRENCH AND TIE DOWN DETAILS

Project Number	Date
840-04D8041	03/08/05
LDH	03/12/05
LDH/TMM	03/16/05
RMH	03/16/05
LDH	

Drawn By Sheet No.



HANSON PROFESSIONAL SERVICES INC.

815 Commerce Drive, Suite 200
Oak Brook, Illinois 60523
Telephone: 630.990.3800
Fax: 630.990.3801

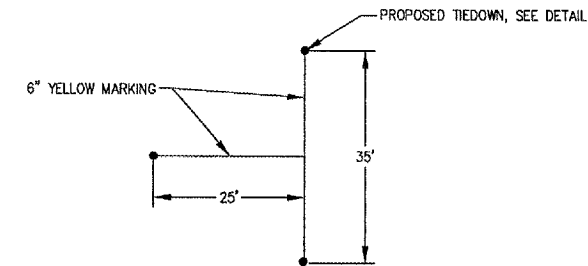


JOLIET REGIONAL PORT DISTRICT

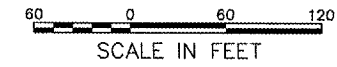
1 Hangar Road
Romeoville, Illinois 60446
Telephone: 815.838.9497
Fax: 815.838.9524

EXTEND TAXIWAY E: CONSTRUCT
GA APRON, AVGAS FUELING APRON
AND AUTO PARK 100

AIP PROJECT NO. 3-17-0140-B38
IDA PROJECT NO. LOT-3441



TYPICAL TIEDOWN MARKING



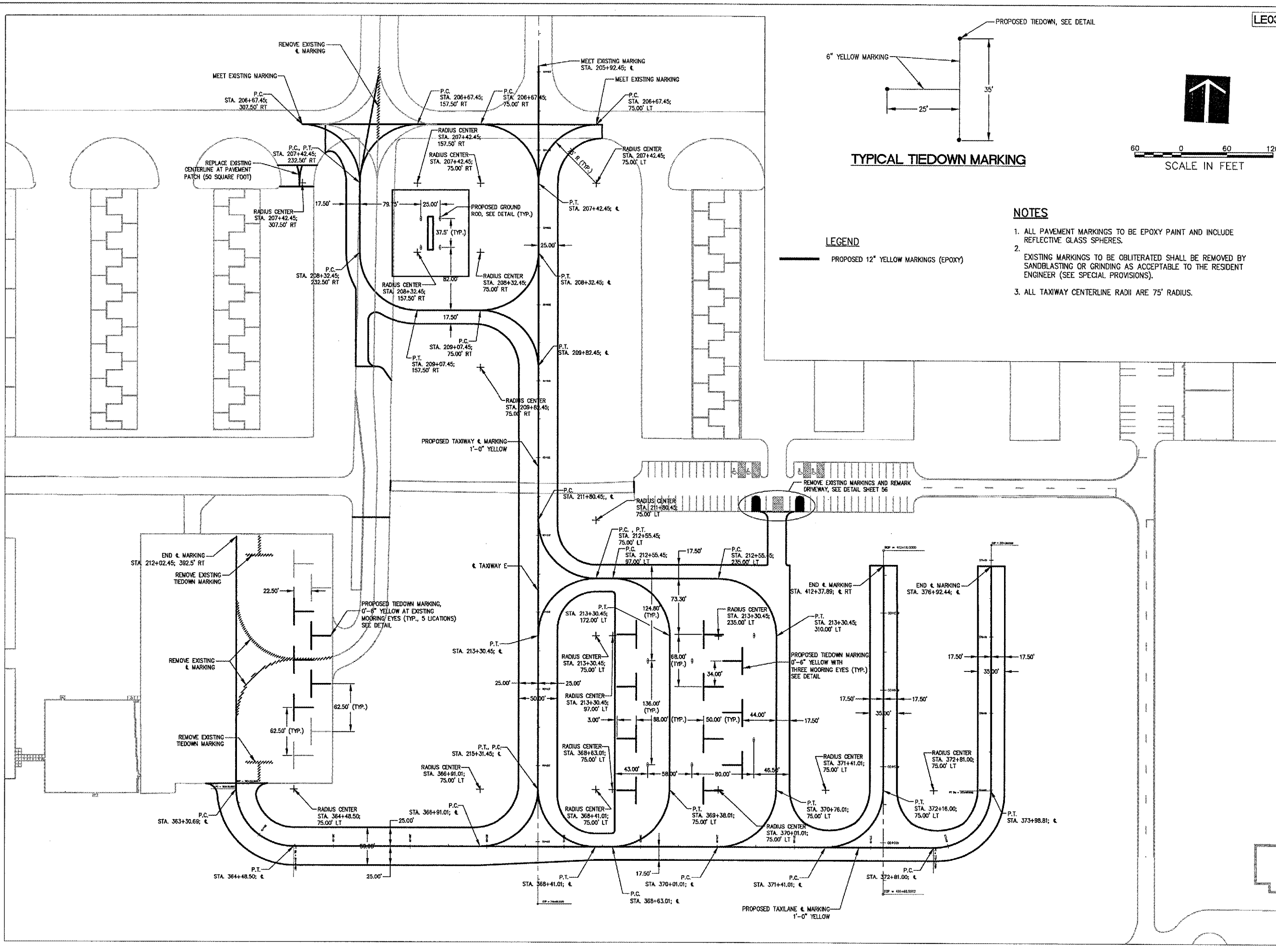
LEGEND

PROPOSED 12" YELLOW MARKINGS (EPOXY)

NOTES

1. ALL PAVEMENT MARKINGS TO BE EPOXY PAINT AND INCLUDE REFLECTIVE GLASS SPHERES.
2. EXISTING MARKINGS TO BE OBLITERATED SHALL BE REMOVED BY SANDBLASTING OR GRINDING AS ACCEPTABLE TO THE RESIDENT ENGINEER (SEE SPECIAL PROVISIONS).
3. ALL TAXIWAY CENTERLINE RADII ARE 75' RADIUS.

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No.	Drawing Issue Description	Date	By

Date
MARCH 25, 2005
Sheet Title

MARKING PLAN
TAXIWAY E, GA APRON,
AND FUELING APRON

840-0408041
Project Number
LDH 03/02/05
Layout By Date
LDH/TMM 03/12/05
Designed By Date
RMH 03/16/05
Reviewed By Date
LDH
Drawn By
Sheet No.

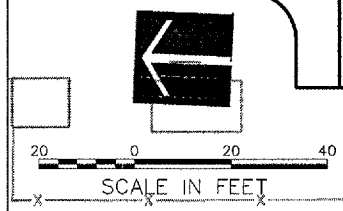
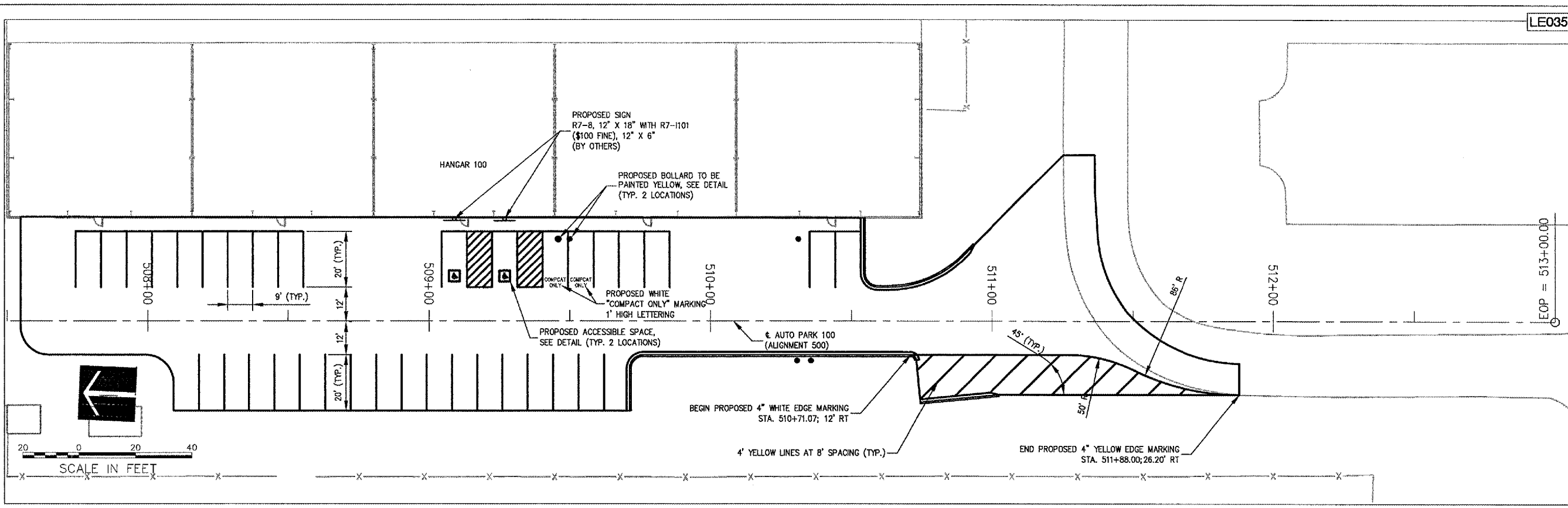


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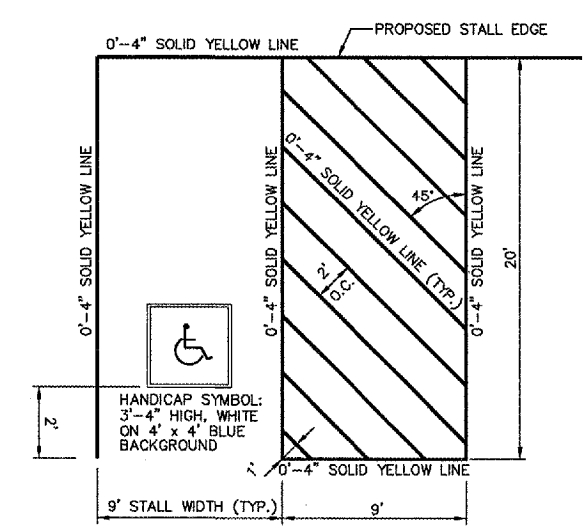
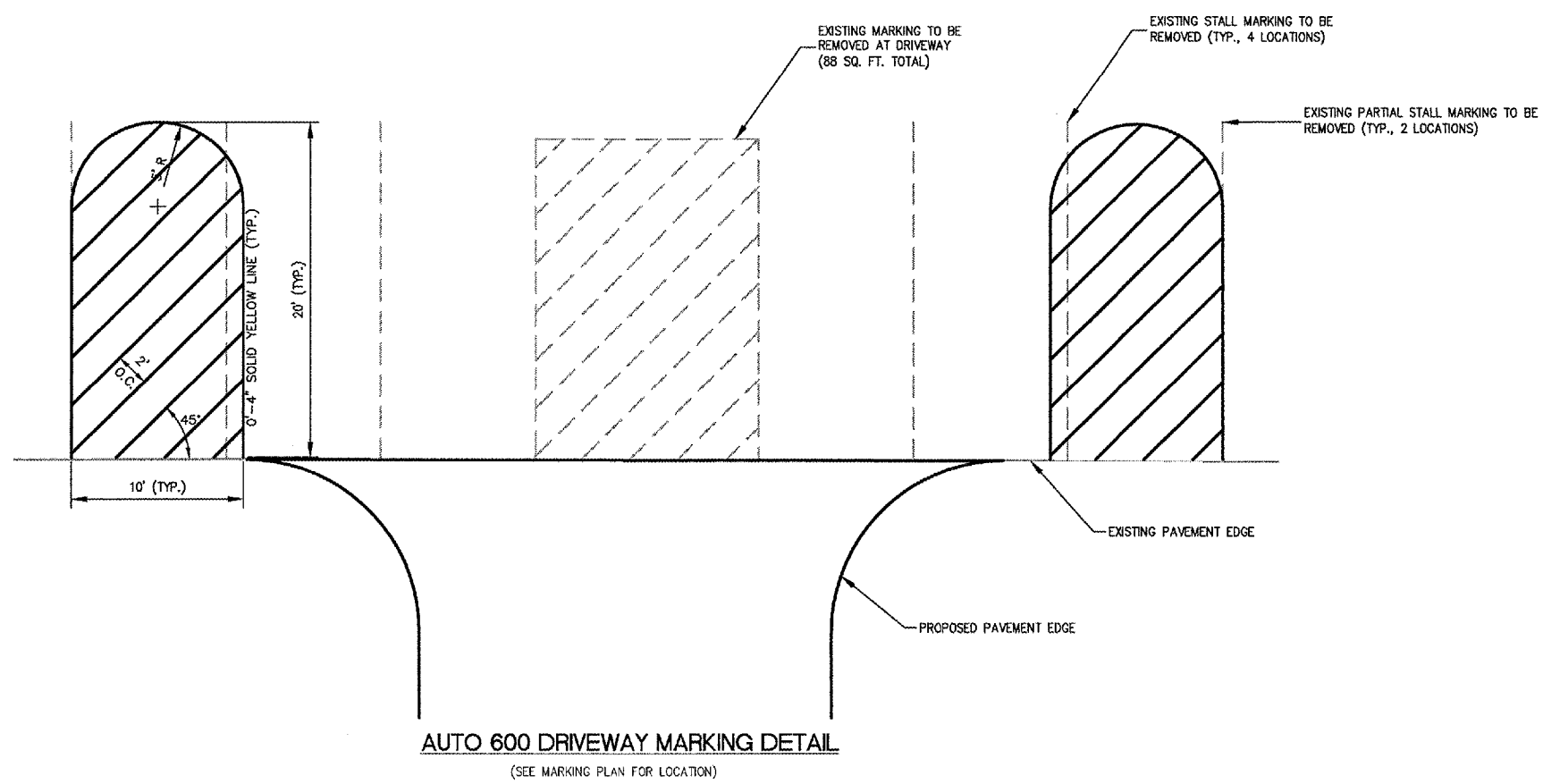
JOLIET REGIONAL PORT DISTRICT
 1 Hangar Road
 Romeoville, Illinois 60446
 Telephone: 815.838.9497
 Fax: 815.838.9524

**EXTEND TAXIWAY E; CONSTRUCT
 GA APRON, AVGAS FUELING APRON
 AND AUTO PARK 100**
 AIP PROJECT NO. 3-17-0140-B38
 IDA PROJECT NO. LOT-3441



MARKING NOTES:

1. ALL WHITE AND YELLOW PAVEMENT MARKINGS TO INCLUDE REFLECTIVE GLASS SPHERES.
2. MARKINGS TO BE EPOXY PAINT EXCEPT FOR BLUE WHICH IS TO BE WATERBORNE (SEE SPECIAL PROVISIONS).
3. DIMENSIONS GIVEN TO CENTERLINE OF MARKING.



ACCESSIBLE SPACE DETAIL

DETAILS SHOWN ARE NOT TO SCALE

No.	Drawing Issue Description	Date	By

Date
 MARCH 25, 2005
 Sheet Title

**MARKING PLAN
 AUTO PARK 100
 AND DETAILS**

840-0408041
 Project Number
 TMM 02/28/05
 Layout By Date
 TMM 02/28/05
 Designed By Date
 RMH 03/07/05
 Reviewed By Date
 TMM
 Drawn By Sheet No.

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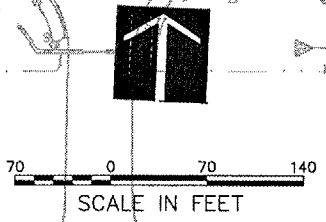
JOLIET REGIONAL PORT DISTRICT

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EXTEND TAXIWAY E; CONSTRUCT
GA APRON, AVGAS FUELING APRON
AND AUTO PARK 100

AIP PROJECT NO. 3-17-0140-B38
IDA PROJECT NO. LOT-3441

- LEGEND**
-  CONSERVATION COVER (1.4 ACRES)
 -  PROPOSED TOPSOILING, SEEDING AND MULCHING (6.6 ACRES)
 -  PROPOSED SILT FENCE AT MANHOLE (224 LIN. FT.)
 -  PROPOSED SILT FENCE AT FLARED END SECTION (48 LIN. FT.)
 -  PROPOSED SILT FENCE IN SWALE (105 LIN. FT.)
 -  LIMITS OF TOPSOILING, SEEDING AND MULCHING



STORM WATER POLLUTION PREVENTION NOTES

GENERAL
THE CONTRACTOR SHALL IMPLEMENT ALL PROVISIONS OF THE CONTRACT DOCUMENTS TO ASSURE THAT STORM WATER POLLUTION PREVENTION ITEMS ARE CONSTRUCTED AND MAINTAINED IN A TIMELY MANNER. SEDIMENTATION MUST NOT BE TRANSPORTED OFF THE CONSTRUCTION SITE. PERMANENT DRAINAGE FEATURES AND VEGETATIVE MEASURES SHALL BE PROVIDED AS SOON AS POSSIBLE.

THE MAINTENANCE OF ALL STORM WATER POLLUTION PREVENTION MEASURES IS INCIDENTAL TO THE ASSOCIATED ITEM.

POLLUTION PREVENTION MEASURES
THE CONTRACTOR SHALL BE REQUIRED TO IMPLEMENT AND MAINTAIN STORM WATER POLLUTION PREVENTION PRACTICES AND MEASURES PRIOR TO THE STRIPPING OF EXISTING VEGETATION WHERE EVER POSSIBLE AND AS SOON AS CONSTRUCTION PERMITS IN OTHER AREAS. POLLUTION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, INCLUDING THESE CONSTRUCTION PLANS, AND WITH STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, ILLINOIS ENVIRONMENTAL PROTECTION AGENCY, CURRENT ISSUE. THE CONTRACTOR SHALL ADJUST HIS OPERATIONS AND IMPLEMENT POLLUTION CONTROL MEASURES SO THAT NO RUNOFF FROM STRIPPED AREAS WILL LEAVE THE CONSTRUCTION SITE OTHER THAN THROUGH SEDIMENT TRAPS OR OTHER SUITABLE CONTROL MEASURES.

POLLUTION CONTROL ITEMS SHALL BE PROVIDED AS NOTED ON THE STORM WATER POLLUTION PREVENTION PLAN AND IN THE STORM WATER POLLUTION PREVENTION DETAILS AND AS DIRECTED BY THE ENGINEER. THE LIMITS OF SUCH MEASURES SHALL BE STAKED BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. SUCH LIMITS MAY BE ADJUSTED BY THE ENGINEER TO ACCOUNT FOR ACTUAL SITE CONDITIONS EXPERIENCED DURING CONSTRUCTION. ADDITIONAL COMPENSATION FOR MEASURES EXCEEDING THE PLAN QUANTITIES WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR EACH ITEM.

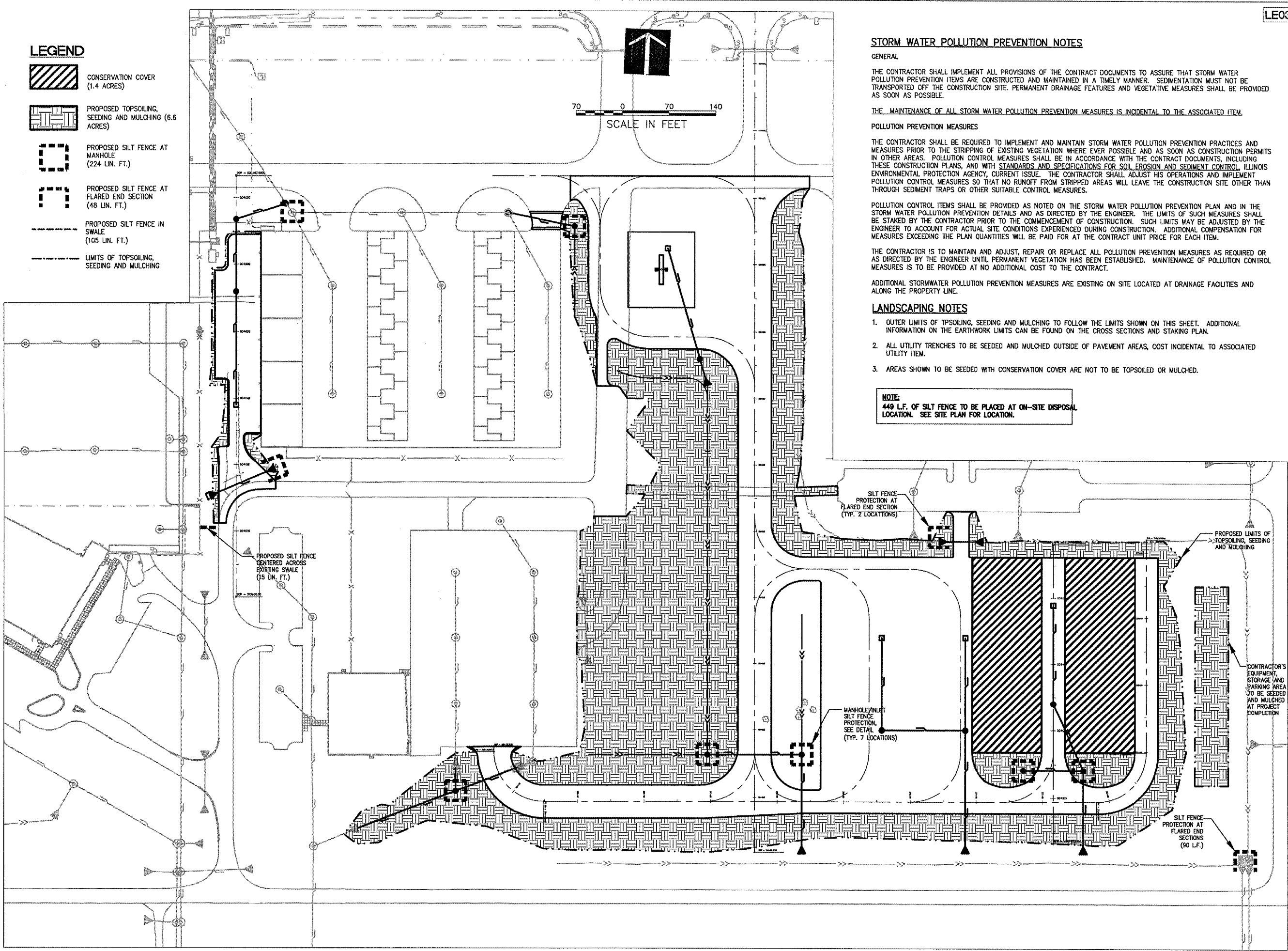
THE CONTRACTOR IS TO MAINTAIN AND ADJUST, REPAIR OR REPLACE ALL POLLUTION PREVENTION MEASURES AS REQUIRED OR AS DIRECTED BY THE ENGINEER UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED. MAINTENANCE OF POLLUTION CONTROL MEASURES IS TO BE PROVIDED AT NO ADDITIONAL COST TO THE CONTRACT.

ADDITIONAL STORMWATER POLLUTION PREVENTION MEASURES ARE EXISTING ON SITE LOCATED AT DRAINAGE FACILITIES AND ALONG THE PROPERTY LINE.

LANDSCAPING NOTES

1. OUTER LIMITS OF TOPSOILING, SEEDING AND MULCHING TO FOLLOW THE LIMITS SHOWN ON THIS SHEET. ADDITIONAL INFORMATION ON THE EARTHWORK LIMITS CAN BE FOUND ON THE CROSS SECTIONS AND STAKING PLAN.
2. ALL UTILITY TRENCHES TO BE SEEDDED AND MULCHED OUTSIDE OF PAVEMENT AREAS, COST INCIDENTAL TO ASSOCIATED UTILITY ITEM.
3. AREAS SHOWN TO BE SEEDDED WITH CONSERVATION COVER ARE NOT TO BE TOPSOILED OR MULCHED.

NOTE:
449 L.F. OF SILT FENCE TO BE PLACED AT ON-SITE DISPOSAL LOCATION. SEE SITE PLAN FOR LOCATION.



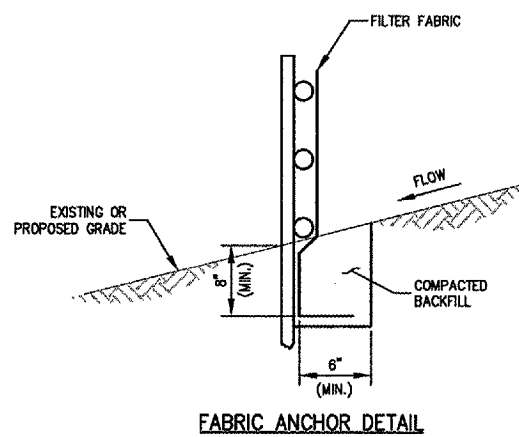
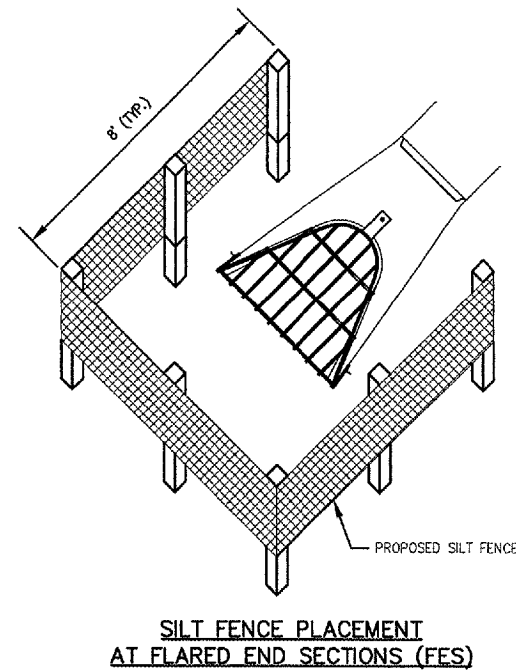
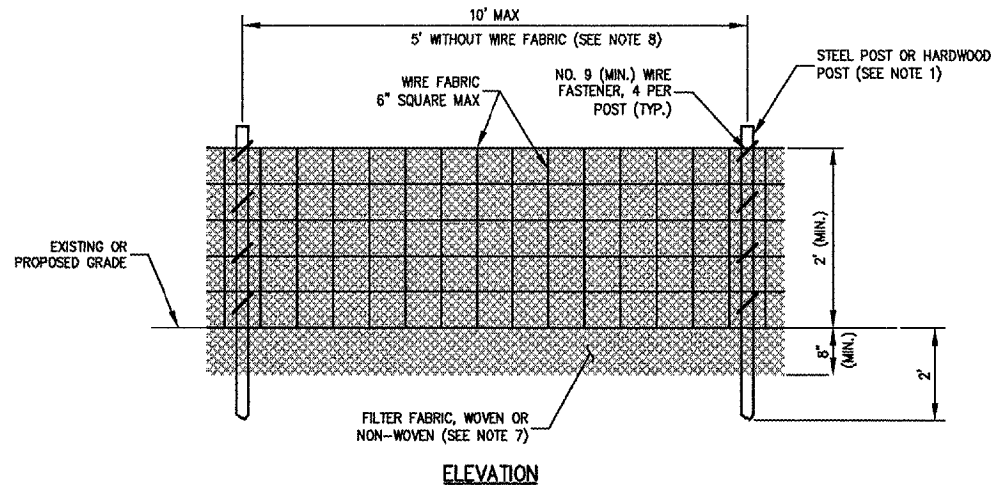
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Date
MARCH 25, 2005
Sheet Title

LANDSCAPING AND STORMWATER POLLUTION PREVENTION PLAN

840-04D8041
Project Number
LDH 03/11/05
Layout By Date
LDH/TMM 03/12/05
Designed By Date
RMH 03/16/05
Reviewed By Date
LDH
Drawn By Sheet No.

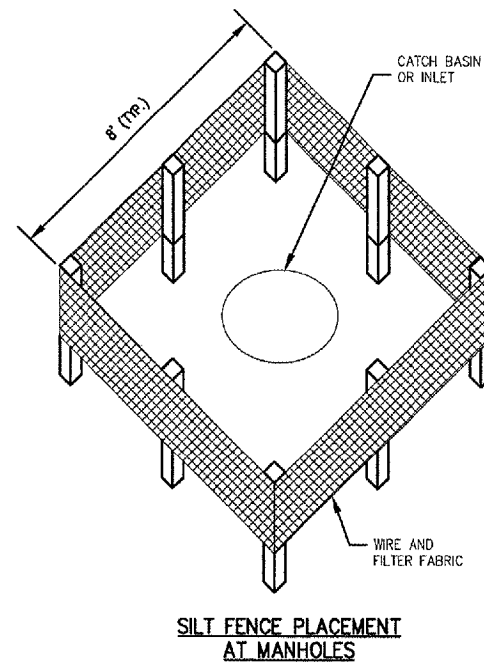
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NOTES:

1. FENCE POST SHALL BE EITHER STEEL "1" LINE POST OR HARDWOOD POST WITH A MINIMUM SECTIONAL AREA OF 3.0 SQUARE INCHES.
2. TOP AND BOTTOM WIRE OF WIRE FABRIC SHALL BE MINIMUM GAGE NO. 9. INTERMEDIATE WIRES OF THE WIRE FABRIC SHALL BE MINIMUM GAGE NO. 11.
3. WIRE FABRIC SHALL BE SECURELY FASTENED TO FENCE POSTS WITH NO. 9 GAGE WIRE MINIMUM. FOUR (4) FASTENERS PER POST REQUIRED.
4. FILTER FABRIC SHALL BE SECURELY FASTENED TO WIRE FABRIC AND POSTS WITH TIES OR STAPLES SPACED AT 12" APART AT THE TOP, MIDDLE AND BOTTOM.
5. WHEN TWO SECTIONS OF FILTER FABRIC MEET, THEY SHALL BE OVERLAPPED BY 6" AND FOLDED AND ATTACHED TO THE WIRE FABRIC AT A POST.
6. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED AND REPLACED WHEN BULGES DEVELOP IN THE SILT FENCE.
7. FILTER FABRIC SHALL BE IN ACCORDANCE WITH SPECIAL PROVISIONS WITH EQUIVALENT OPENING SIZE OF AT LEAST 30 FOR NONWOVEN AND 50 FOR WOVEN.
8. WIRE FABRIC MAY BE OMITTED IF A MAXIMUM OF 5 FEET IS USED FOR POST-TO-POST SPACING.
9. SILT FENCE SHALL BE INSTALLED PRIOR TO ANY GRADING WORK IN THE AREA TO BE PROTECTED. PERIODIC INSPECTION SHALL BE PERFORMED AND REQUIRED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN EVENT.
10. FENCE POSTS SHALL BE REMOVED WHEN DIRECTED AT PROJECT END.

SILT FENCE PLAN



NOTES:

1. FILTER FABRIC SHALL BE EMBEDDED 8" INTO THE SOIL.
2. INSPECTION SHALL BE FREQUENT AND REPAIR/REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
3. SILT FENCE SHALL BE REMOVED WHEN IT HAS SERVED ITS USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE. CONTRACTOR SHALL PLACE SEED AND MULCH AROUND STRUCTURES PER LANDSCAPING PLAN. COST OF REMOVAL SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR SILT FENCE.
4. AREAS DISTURBED OUTSIDE OF CONSTRUCTION LIMITS DURING PLACEMENT OF INLET PROTECTION TO BE REGRADED, SEEDED AND MULCHED, COST INCIDENTAL TO SILT FENCE.
5. FENCE AND POSTS SHALL BE REMOVED WHEN DIRECTED AT PROJECT END.

INLET PROTECTION DETAIL

No.	Drawing Issue Description	Date	By

Date
 MARCH 25, 2005
 Sheet Title

STORMWATER POLLUTION PREVENTION DETAILS

840-04D8041
 Project Number
 LDH 03/11/05
 Layout By Date
 LDH/TMM 03/15/05
 Designed By Date
 RMH 03/16/05
 Reviewed By Date
 LDH
 Drawn By Date
 Sheet No.

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JOLIET REGIONAL PORT DISTRICT

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**EXTEND TAXIWAY E: CONSTRUCT
GA APRON, AVGAS FUELING APRON
AND AUTO PARK 100**

AIP PROJECT NO. 3-17-0140-B38
IDA PROJECT NO. LOT-3441

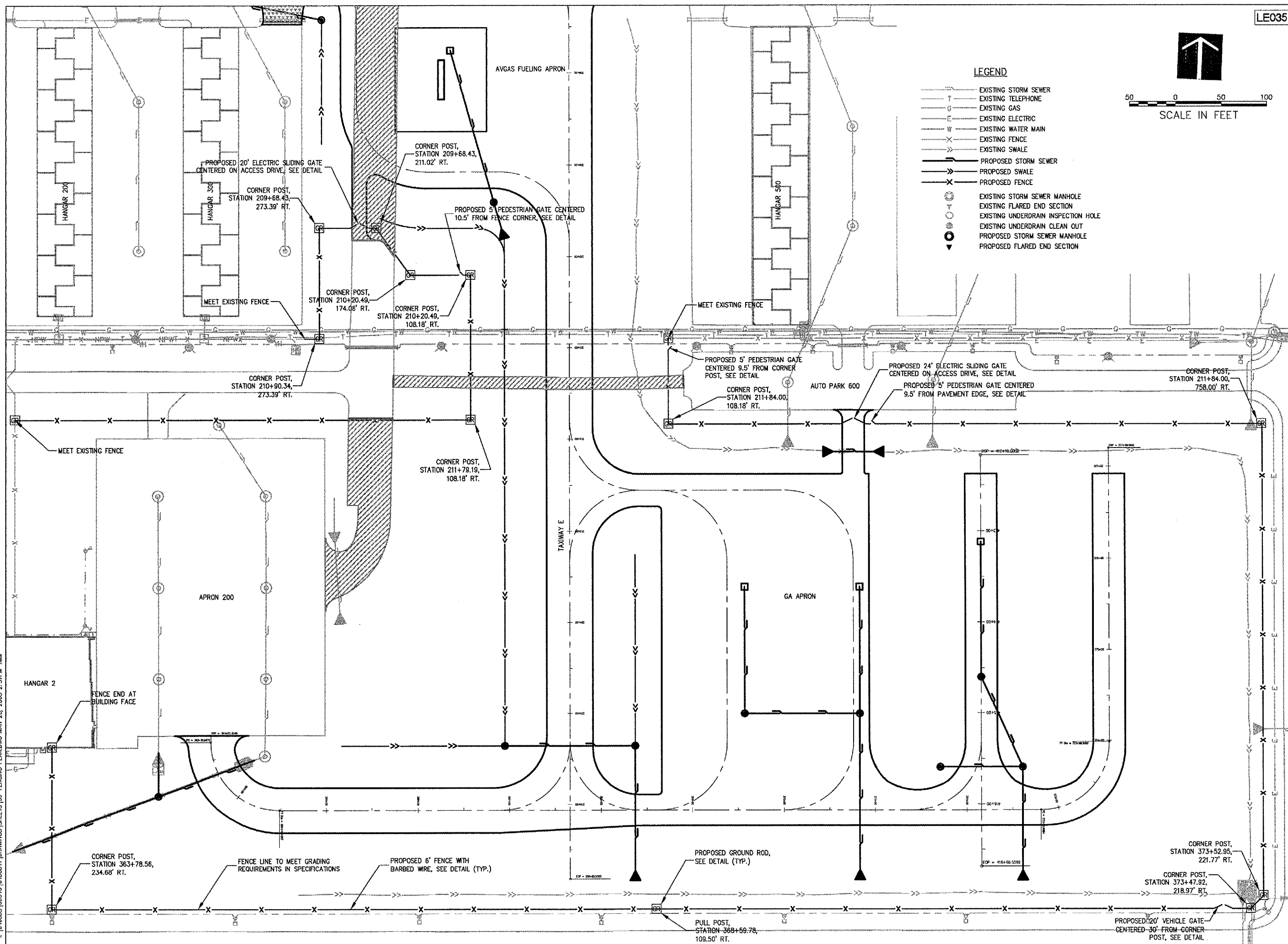
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Date
MARCH 25, 2005

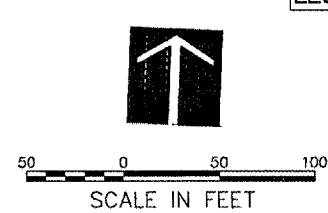
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**FENCING PLAN
TAXIWAY E, GA APRON
AND FUELING APRON
(ADDITIVE NO. 1)**

840-04D8041
Project Number
LDH 03/02/05
Laid Out By Date
LDH/TMM 03/02/05
Designed By Date
RMH 03/15/05
Reviewed By Date
LDH | TMM
Drawn By Sheet No.

59



- LEGEND**
- - - - - EXISTING STORM SEWER
 - - - - - EXISTING TELEPHONE
 - - - - - EXISTING GAS
 - - - - - EXISTING ELECTRIC
 - - - - - EXISTING WATER MAIN
 - - - - - EXISTING FENCE
 - - - - - EXISTING SWALE
 - - - - - PROPOSED STORM SEWER
 - - - - - PROPOSED SWALE
 - - - - - PROPOSED FENCE
 - EXISTING STORM SEWER MANHOLE
 - EXISTING FLARED END SECTION
 - EXISTING UNDERDRAIN INSPECTION HOLE
 - EXISTING UNDERDRAIN CLEAN OUT
 - PROPOSED STORM SEWER MANHOLE
 - PROPOSED FLARED END SECTION



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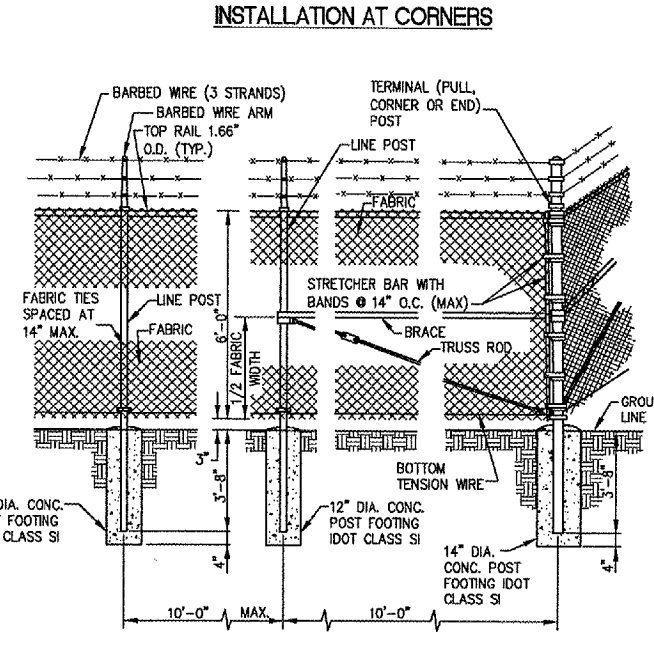
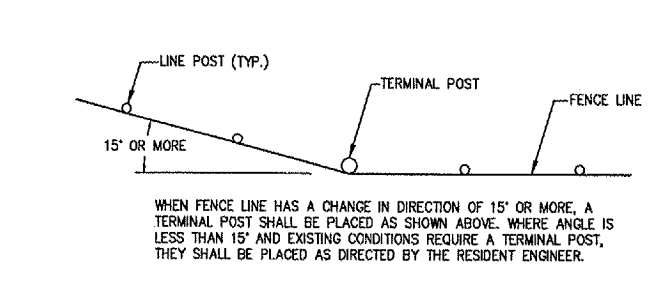
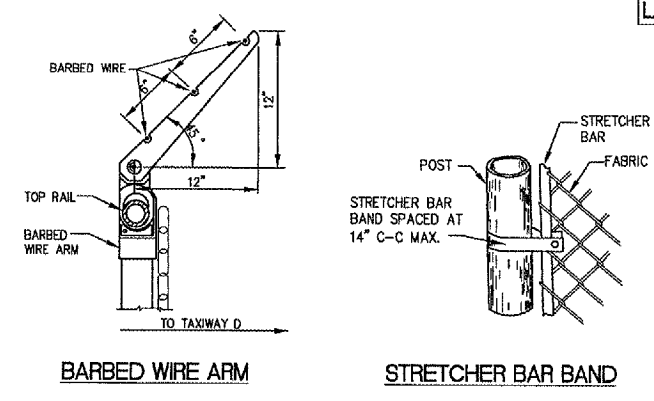
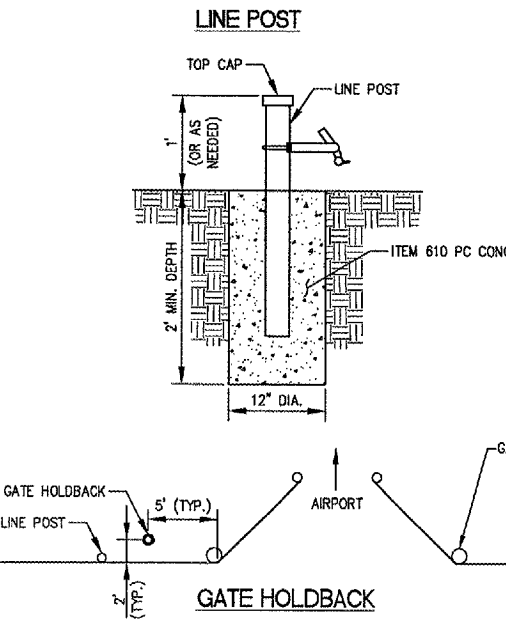
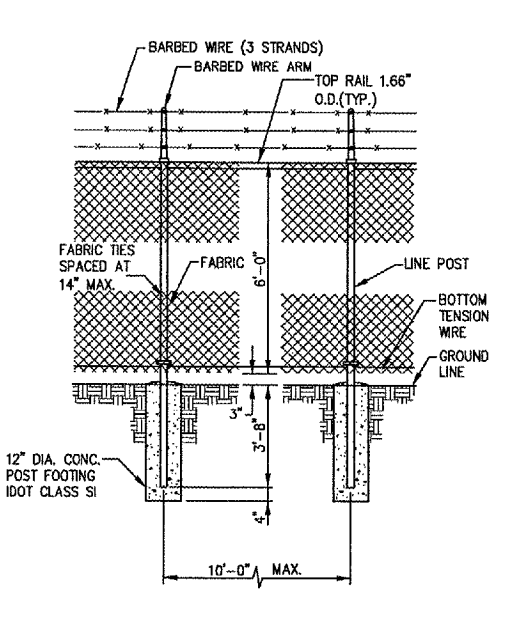
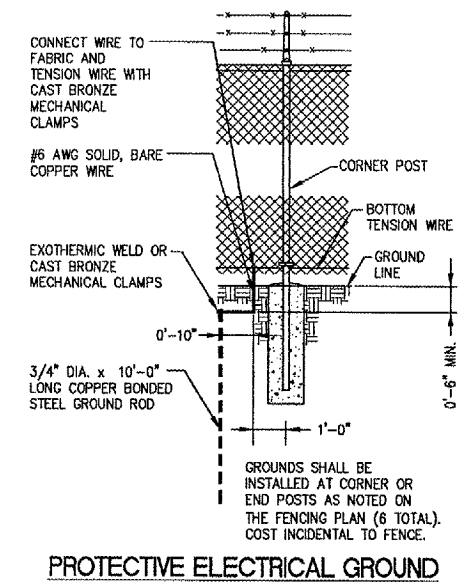
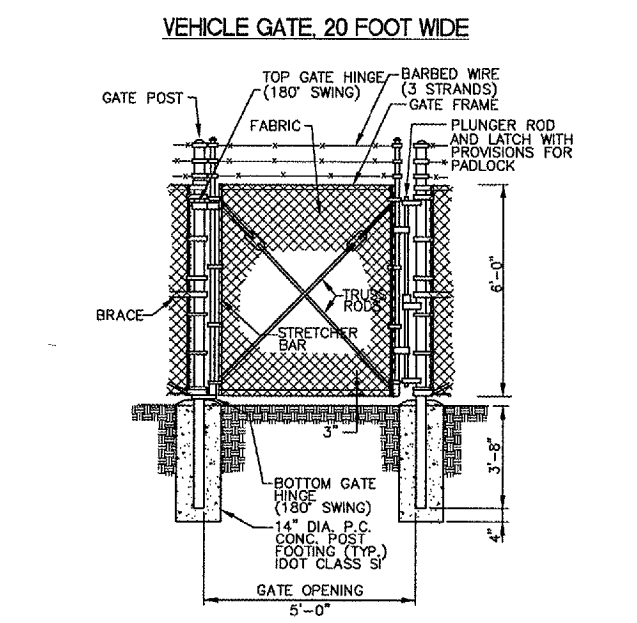
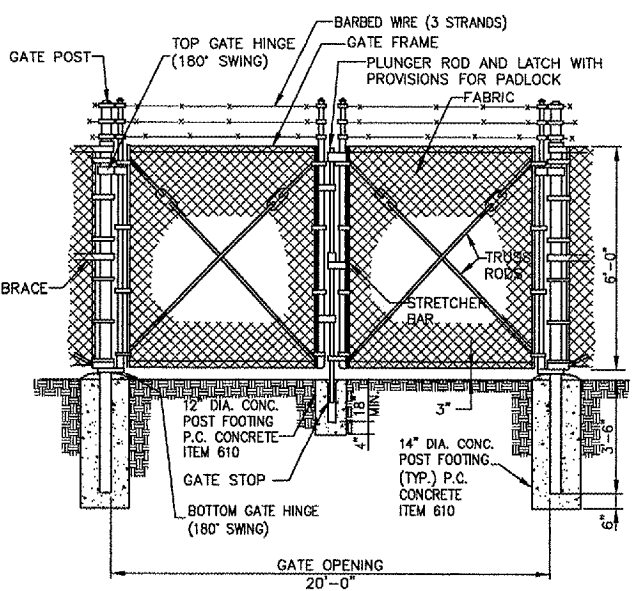
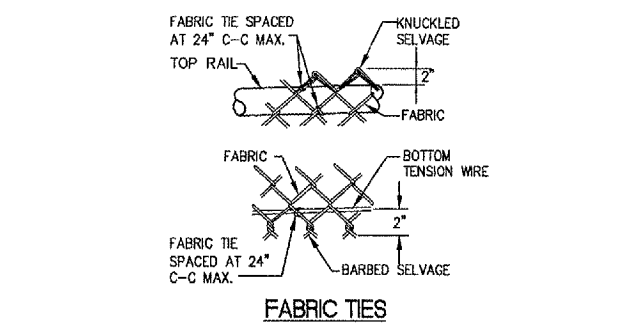
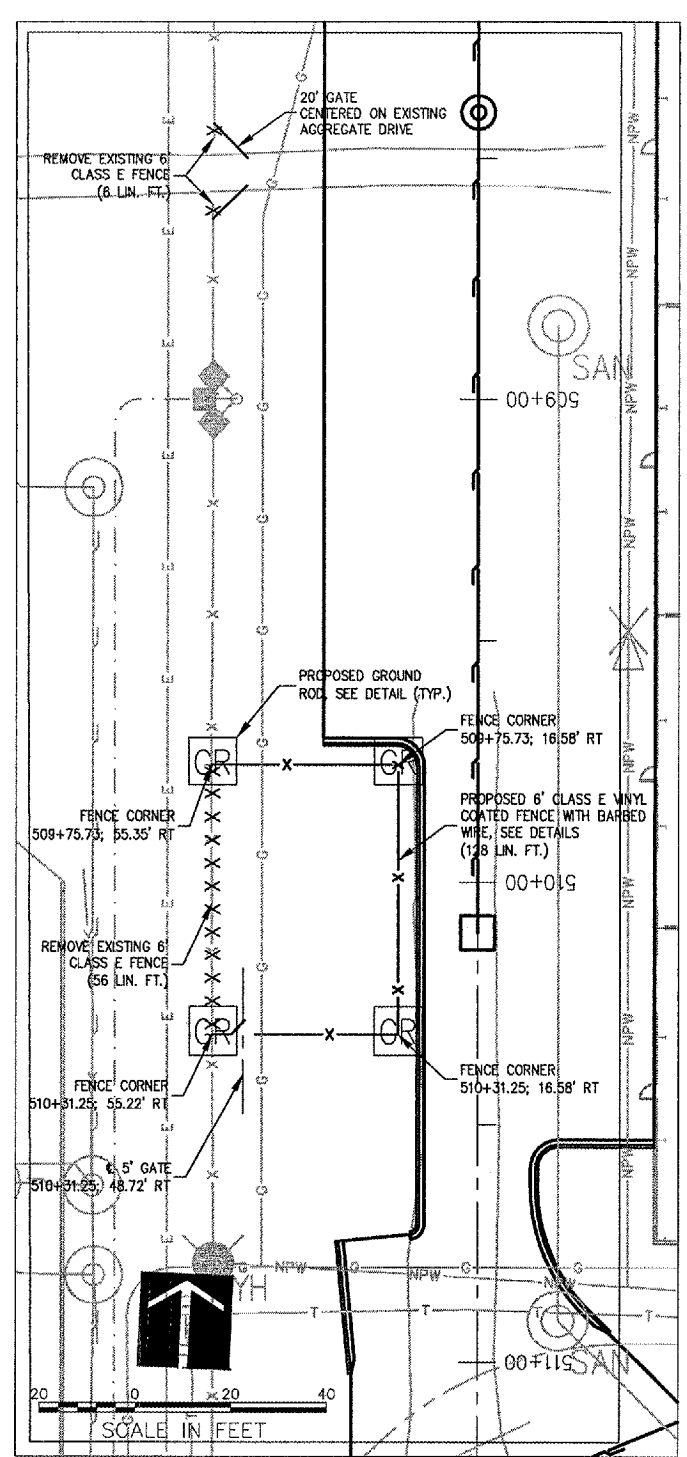
HANSON PROFESSIONAL SERVICES INC.
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EXTEND TAXWAY E; CONSTRUCT
 GA APRON, AVGAS FUELING APRON
 AND AUTO PARK 100

AIP PROJECT NO. 3-17-0140-B38
 IDA PROJECT NO. LOT-3441



- FENCING NOTES**
- ALL FENCE, FABRIC, POSTS, GATES, TENSION WIRE, RODS, BRACES, ARMS AND MISCELLANEOUS FITTINGS SHALL BE VINYL-COATED GREEN.
 - BARBED WIRE FOR FENCE AND GATES SHALL BE GALVANIZED STEEL.
 - FENCE AND GATE HEIGHT SHALL BE 6'-0" AS SHOWN.
 - PULL POSTS SHALL BE PLACED AT LOCATIONS DETERMINED BY THE RESIDENT ENGINEER. THEY SHALL BE PLACED AT 660 FOOT INTERVALS BETWEEN POSTS TO WHICH THE ENDS OF THE FABRIC ARE CLAMPED OR MIDWAY BETWEEN SUCH POSTS WHEN THE DISTANCE IS LESS THAN 1,320 FEET AND GREATER THAN 660 FEET.
 - GATE KEEPERS SHALL BE PROVIDED TO HOLD GATES IN THE OPEN POSITION. THEY SHALL BE LOCATED AND INSTALLED AS DETAILED.
 - SONDTUBE TO BE USED FOR CASTING POST FOUNDATIONS WHERE REQUIRED BY THE SOIL CONDITIONS TO PROVIDE A CONSTANT WIDTH FOOTING.
 - SEE SPECIAL PROVISIONS.

LINE POST	
SECTION (O.D.)	LBS./FT.
PIPE TYPE A 1.90"	2.72
PIPE TYPE B 1.90"	2.28
PIPE TYPE C 1.90"	2.26

TERMINAL POST	
SECTION (O.D.)	LBS./FT.
PIPE TYPE A 2.375"	3.65
PIPE TYPE B 2.375"	3.11
PIPE TYPE C 2.375"	3.09

HORIZONTAL BRACES	
SECTION (O.D.)	LBS./FT.
PIPE TYPE A 1.66"	2.27
PIPE TYPE B 1.66"	1.83
PIPE TYPE C 1.66"	1.82

GATE POSTS					
GATE OPENING (FT.)		PIPE TYPE A		PIPE TYPE B	
SINGLE	DOUBLE	SIZE (O.D.)	(LBS./FT.)	SIZE (O.D.)	(LBS./FT.)
UP TO 4	UP TO 8	2.375"	3.65	2.375"	3.11
OVER 4 TO 8	OVER 8 TO 16	2.875"	5.79	2.875"	4.64
OVER 8 TO 14	OVER 16 TO 28	3.5"	7.58	3.5"	5.707

GATE FRAMES	
SECTION (O.D.)	LBS./FT.
PIPE TYPE A 1.66"	2.27
PIPE TYPE B 1.66"	1.83
PIPE TYPE C 1.66"	1.82

DETAILS SHOWN ARE NOT TO SCALE

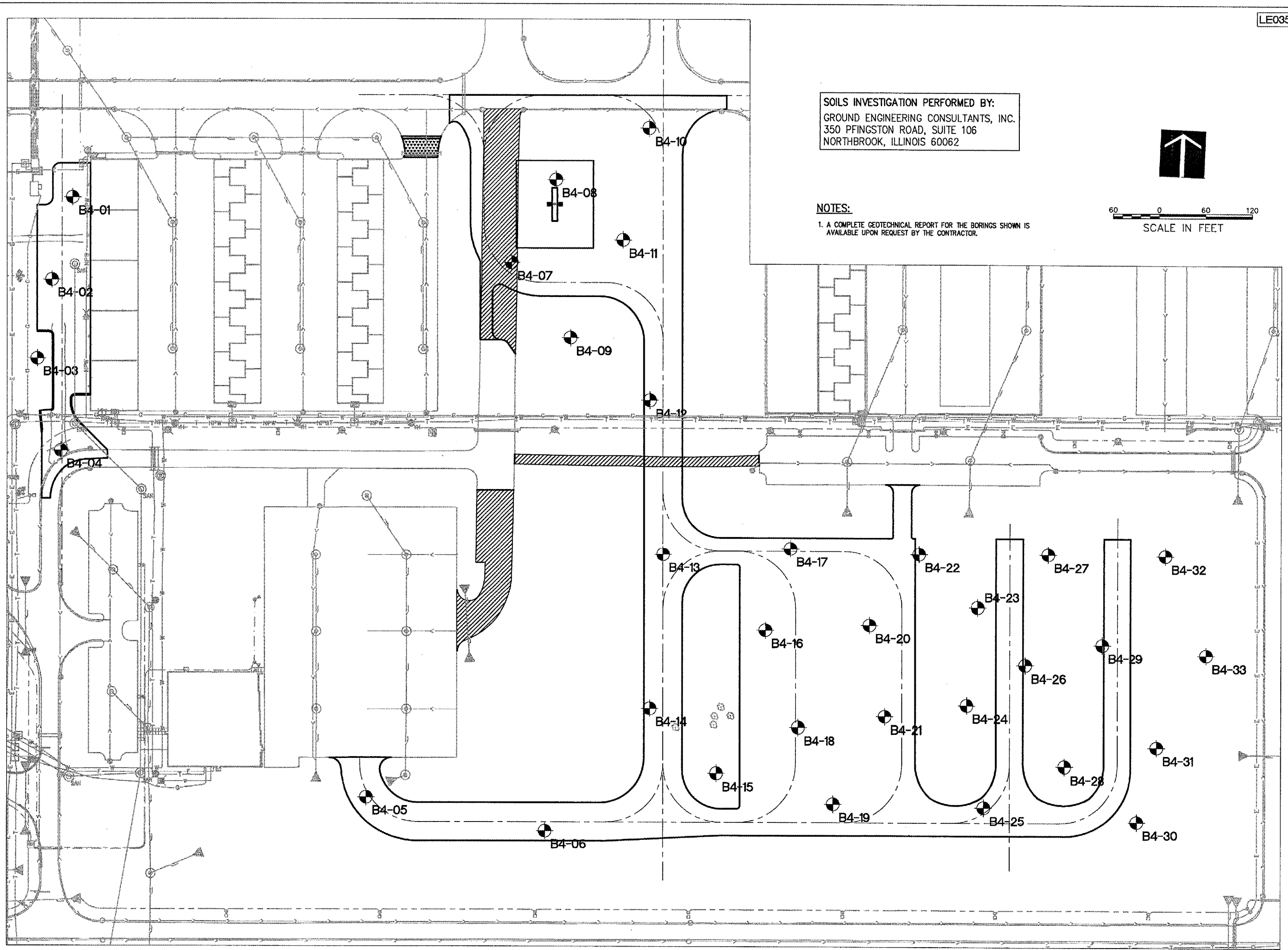
No.	Drawing Issue Description	Date	By

Date
 MARCH 25, 2005
 Sheet Title

**FENCING PLAN
 AUTO PARK 100
 AND FENCING DETAILS
 (ADDITIVE NO. 1)**

840-04D8041
 Project Number
 TMM 03/01/05
 Layout By Date
 TMM 03/01/05
 Designed By Date
 RMH 03/07/05
 Reviewed By Date
 TMM
 Drawn By
 Sheet No.

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SOILS INVESTIGATION PERFORMED BY:
GROUND ENGINEERING CONSULTANTS, INC.
350 PFINGSTON ROAD, SUITE 106
NORTHBROOK, ILLINOIS 60062

NOTES:
1. A COMPLETE GEOTECHNICAL REPORT FOR THE BORINGS SHOWN IS
AVAILABLE UPON REQUEST BY THE CONTRACTOR.

No.	Drawing Issue Description	Date	By

Date
MARCH 25, 2005
Sheet Title

BORING LOCATION MAP

840-04D8041
Project Number
LDH 02/10/05
Layout By Date
LDH/TMM 03/12/05
Designed By Date
RMH 03/16/05
Reviewed By Date
LDH
Drawn By Sheet No.

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815 Commerce Drive, Suite 200
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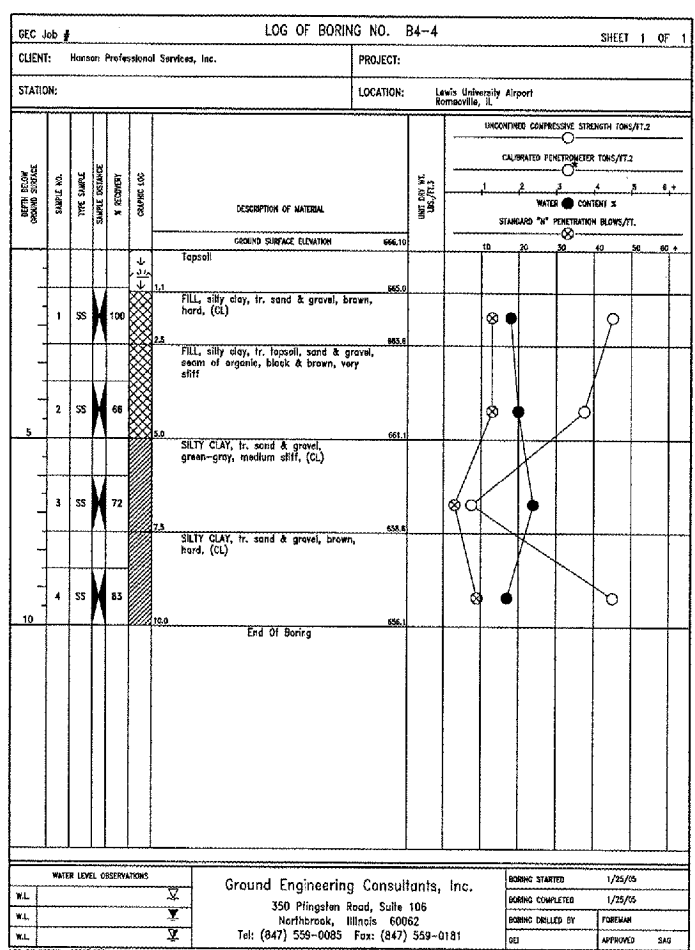
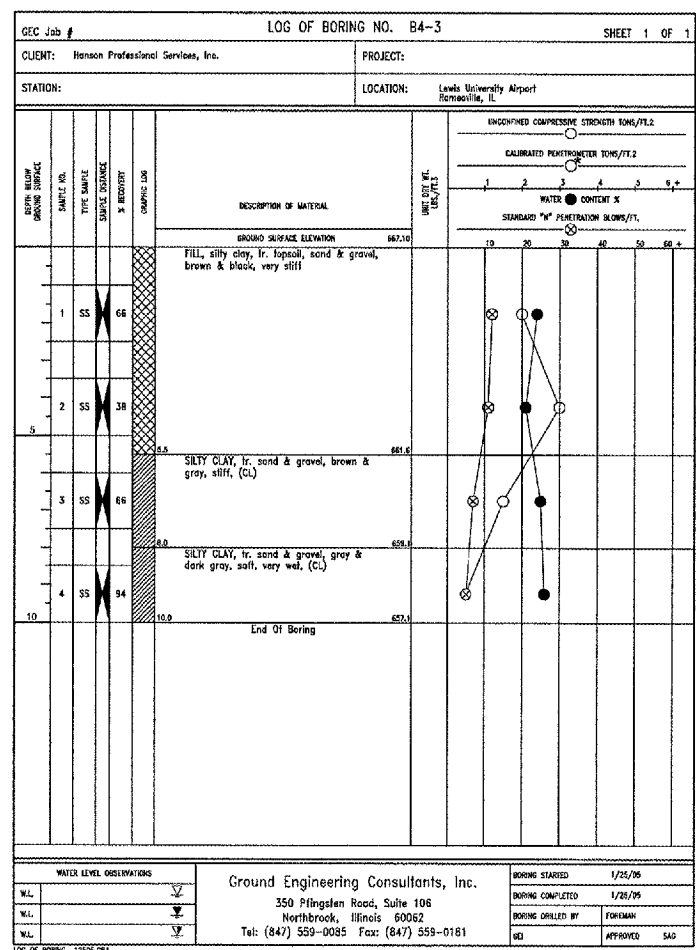
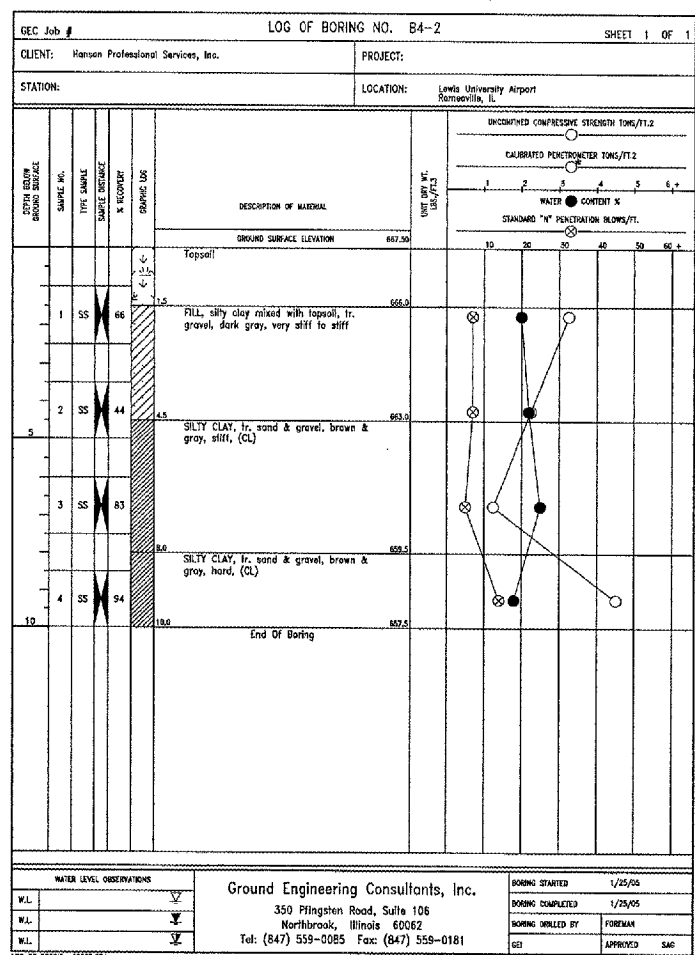
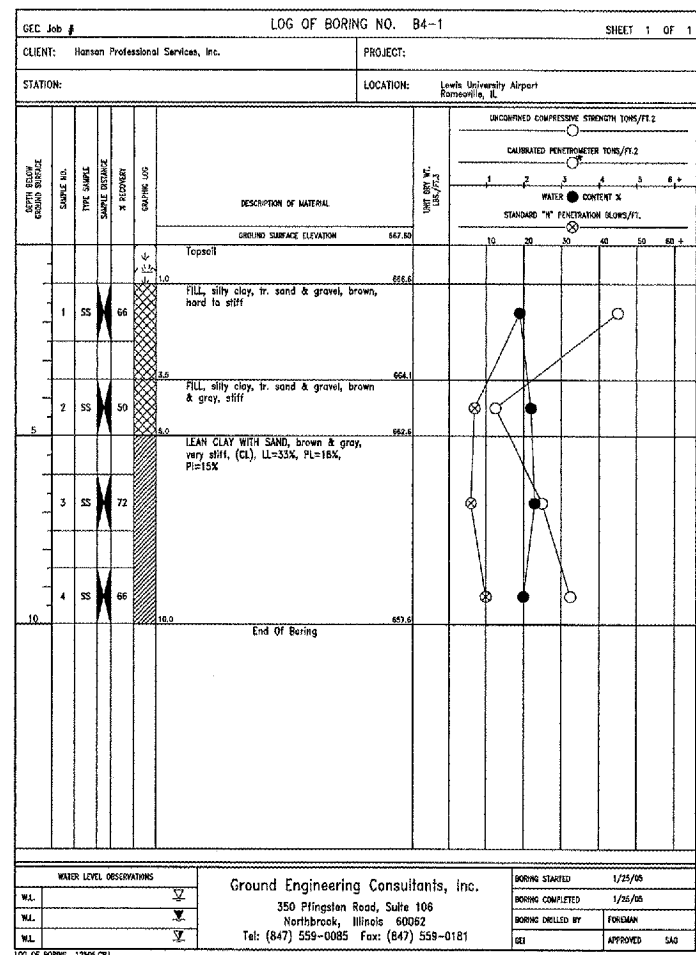


JOLIET REGIONAL PORT DISTRICT

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EXTEND TAXIWAY E: CONSTRUCT
GA APRON, AVGAS FUELING APRON
AND AUTO PARK 100

AIP PROJECT NO. 3-17-0140-B38
IDA PROJECT NO. LOT-3441



No.	Drawing Issue Description	Date	By

Date: MARCH 25, 2005
Sheet Title:

BORING LOGS
B4-1 THRU B4-4

840-04B041
Project Number: TMM
Layout By: TMM
Date: 03/01/05
Designed By: _____
Reviewed By: _____
Drawn By: TMM
Sheet No. _____

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EXTEND TAXIWAY E; CONSTRUCT GA APRON, AVGAS FUELING APRON AND AUTO PARK 100

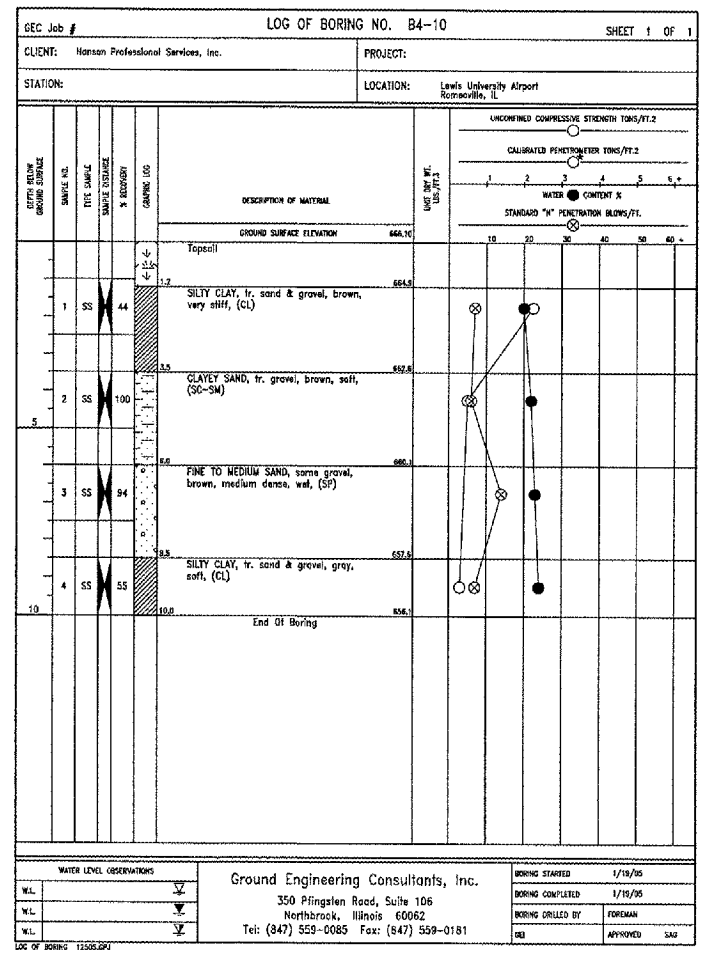
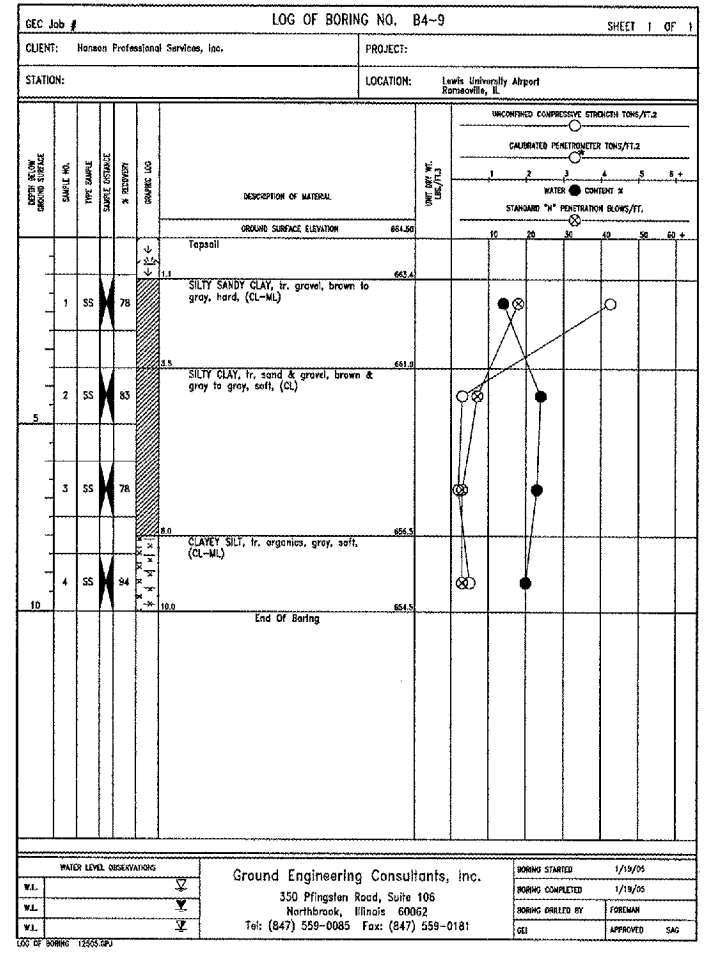
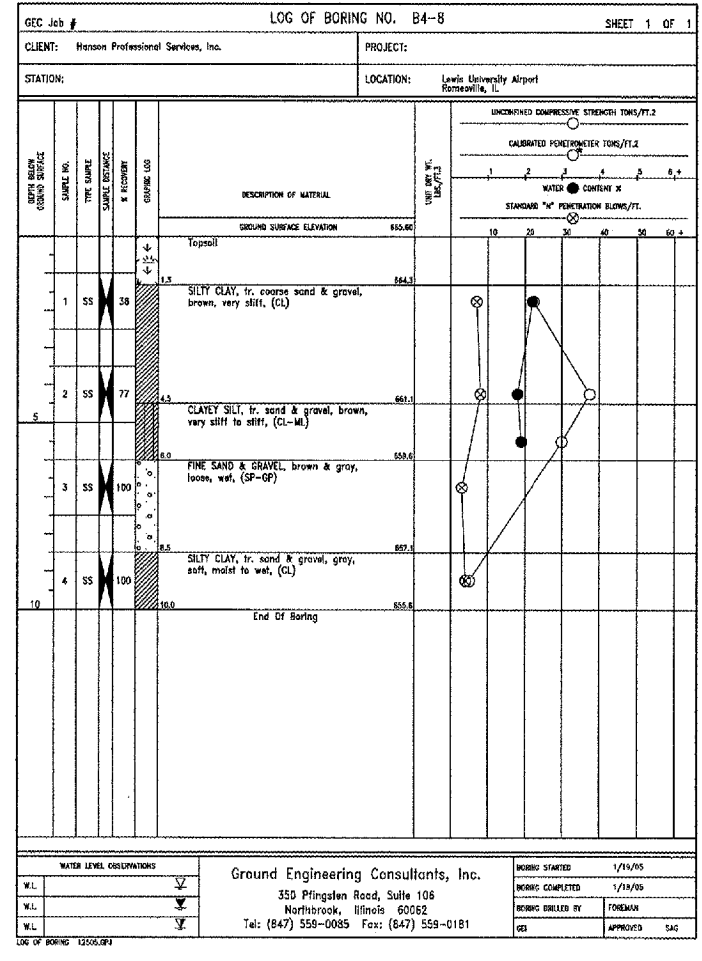
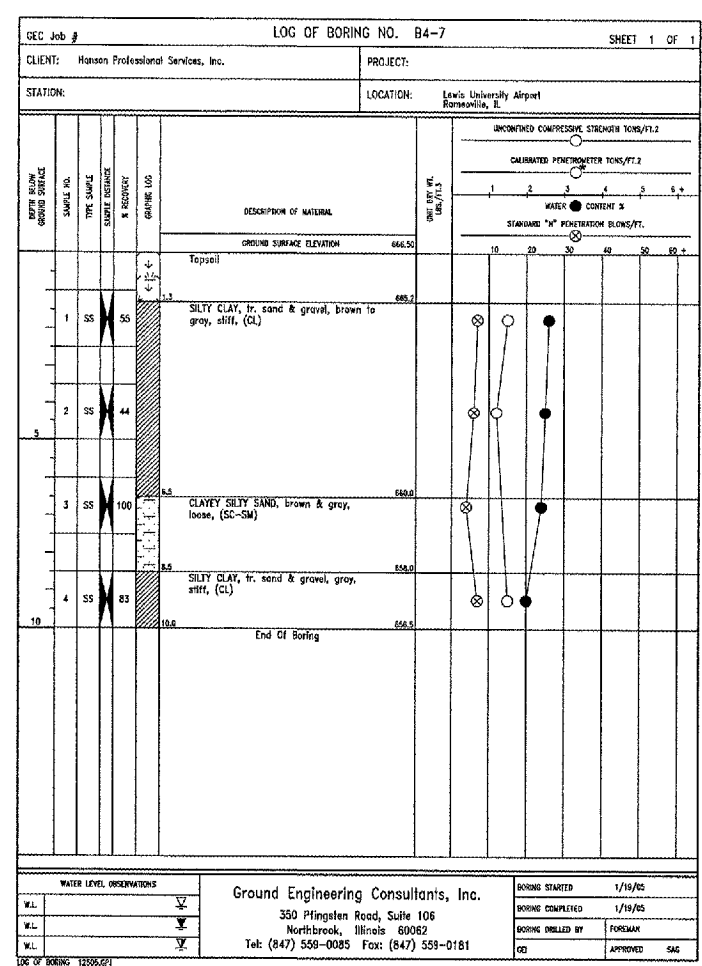
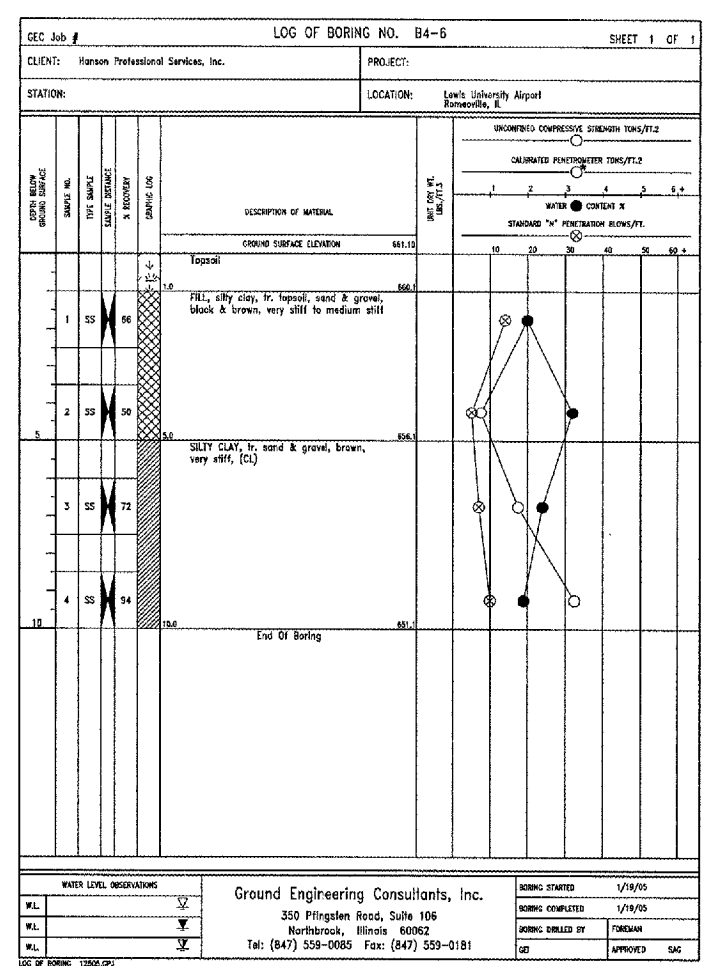
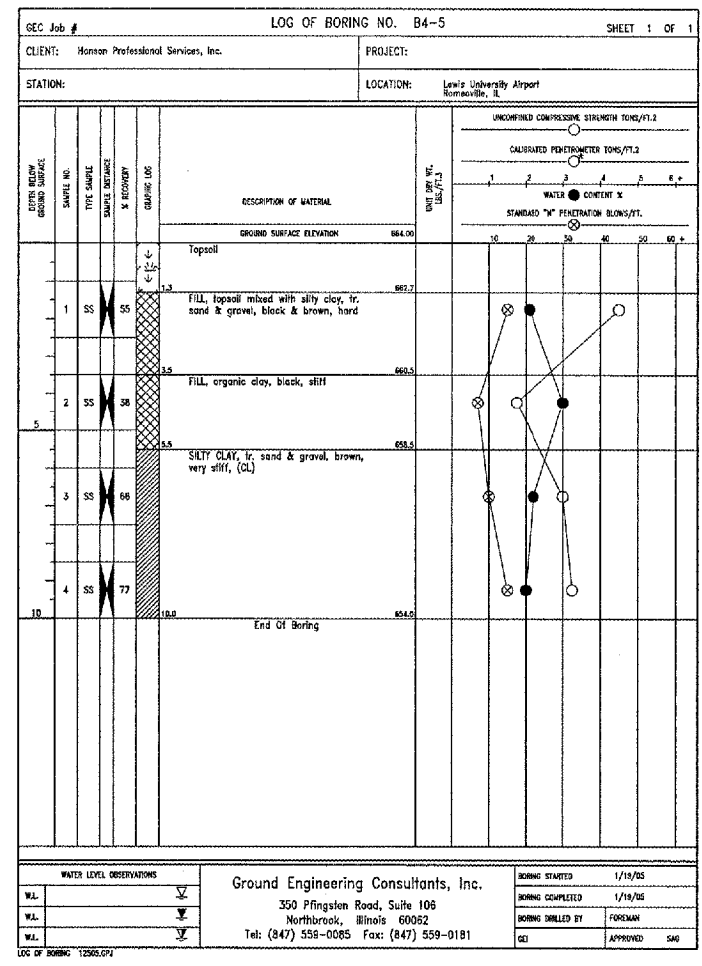
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No.	Drawing Issue Description	Date	By

Date MARCH 25, 2005 Sheet Title

BORING LOGS B4-5 THRU B4-10

840-04D8041 Project Number LDH 03/01/05 Layout By Date LDH/TMM 03/12/05 Designed By Date RMH 03/16/05 Reviewed By Date LDH --- --- --- Drawn By Sheet No.



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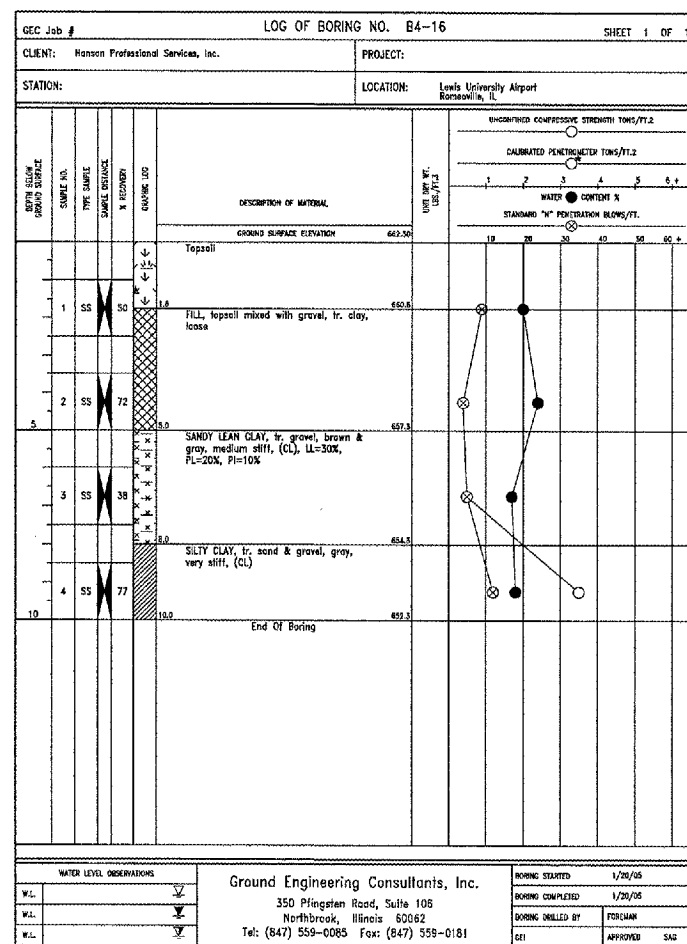
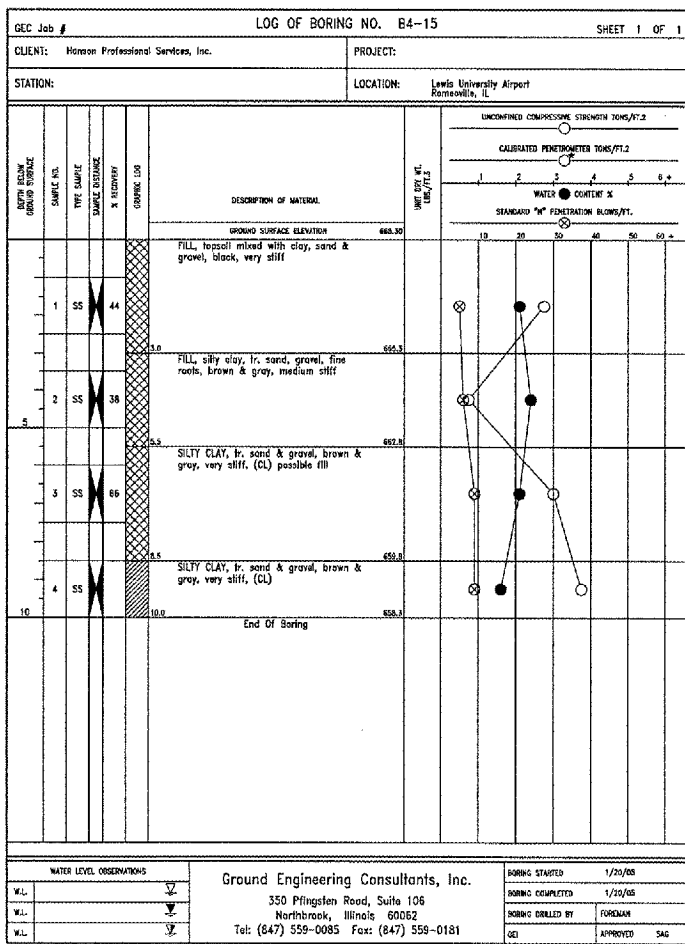
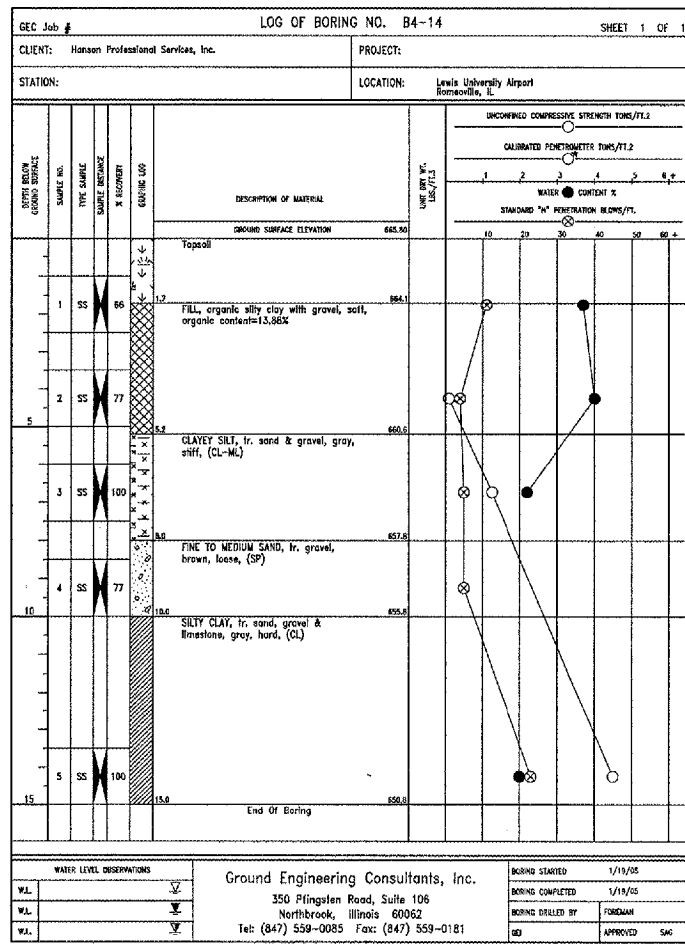
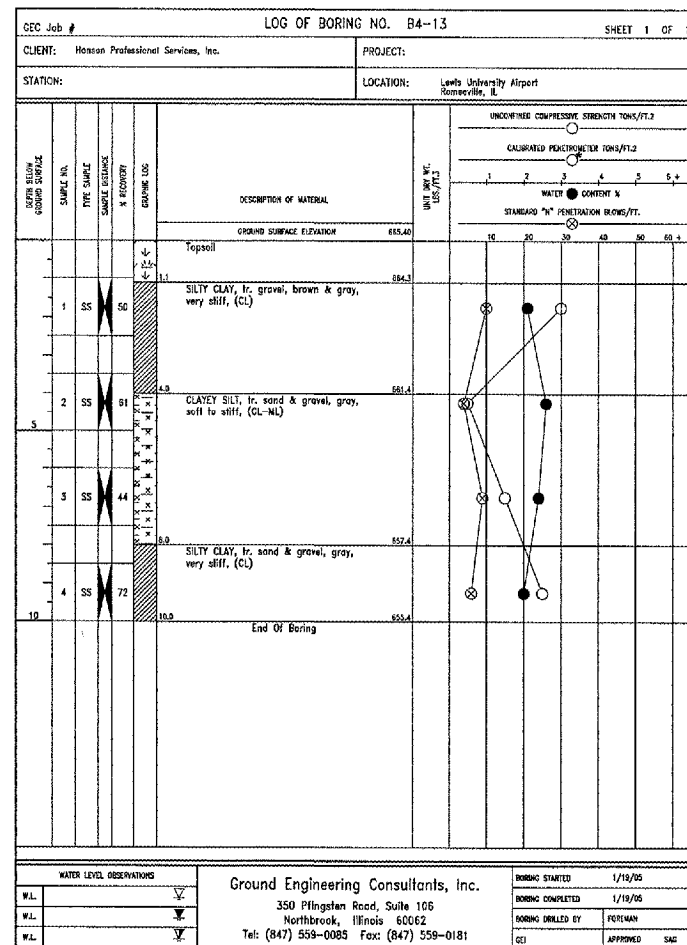
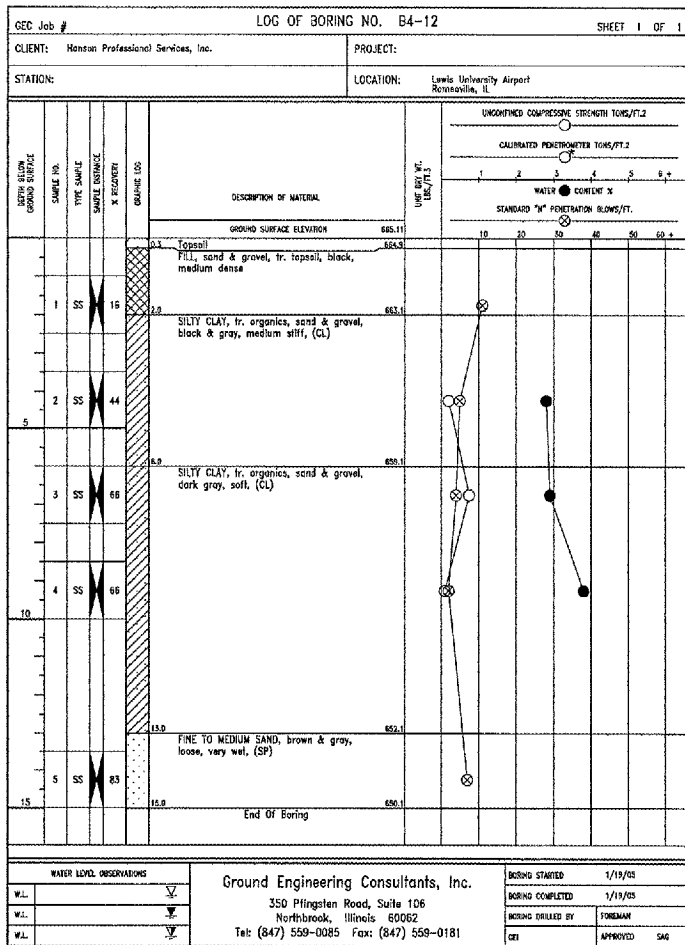
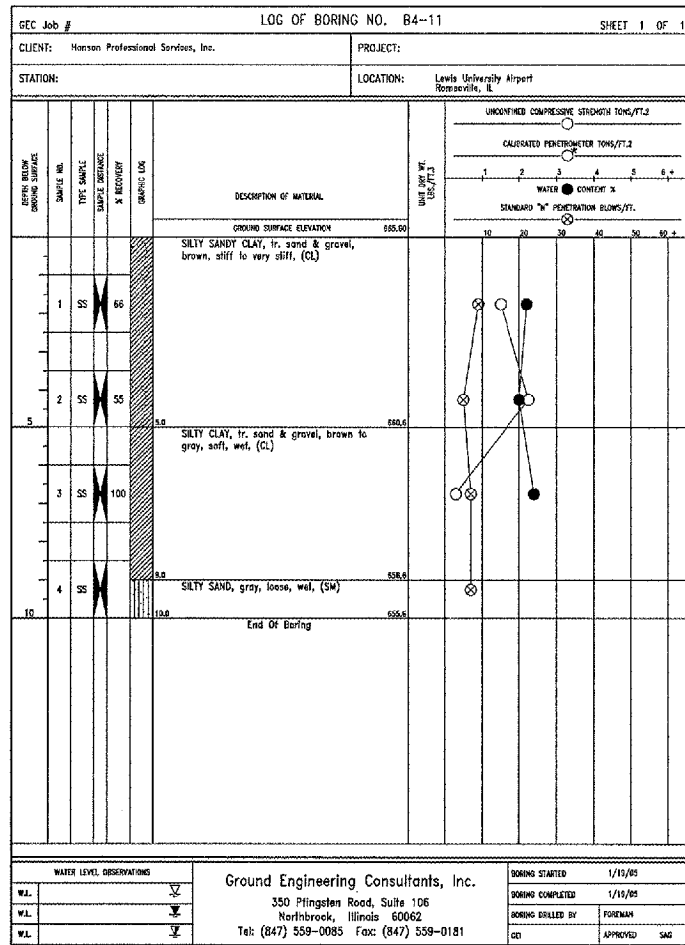


JOLIET REGIONAL PORT DISTRICT

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EXTEND TAXIWAY E; CONSTRUCT
GA APRON, AVGAS FUELING APRON
AND AUTO PARK 100

AIP PROJECT NO. 3-17-0140-B38
IDA PROJECT NO. LOT-3441



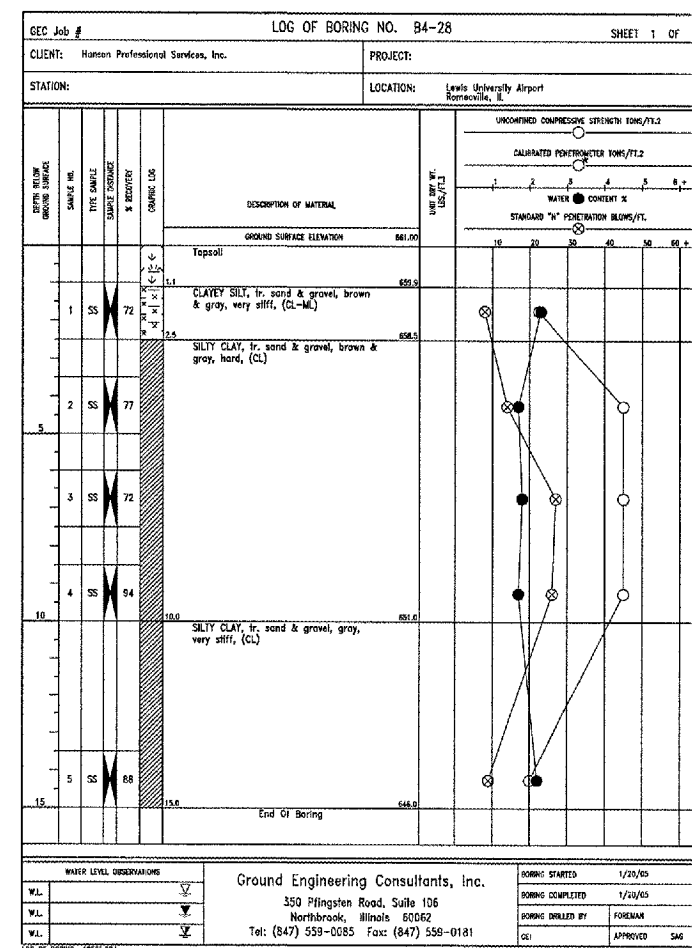
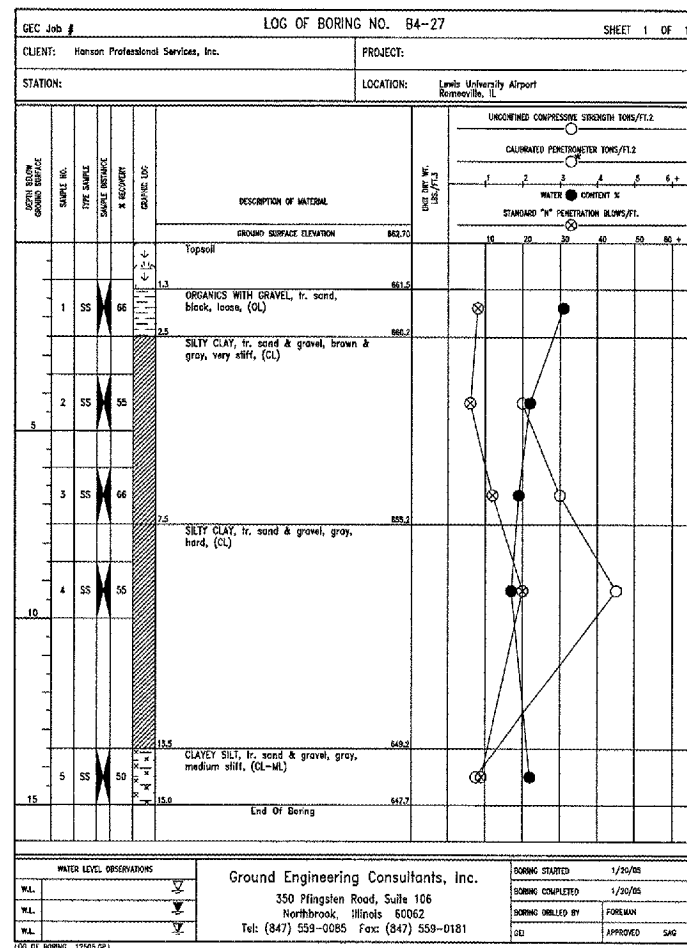
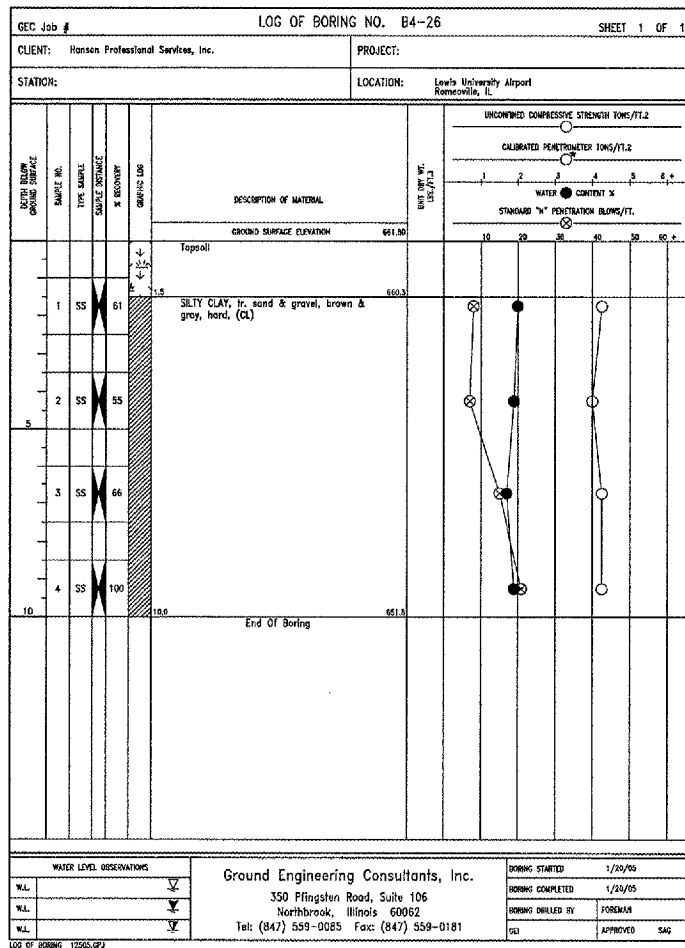
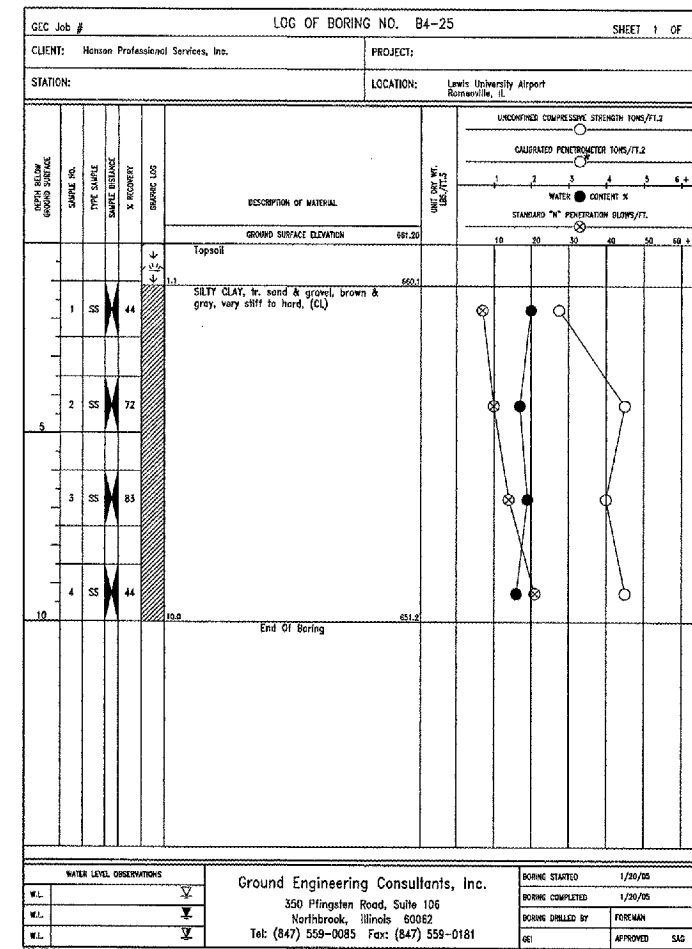
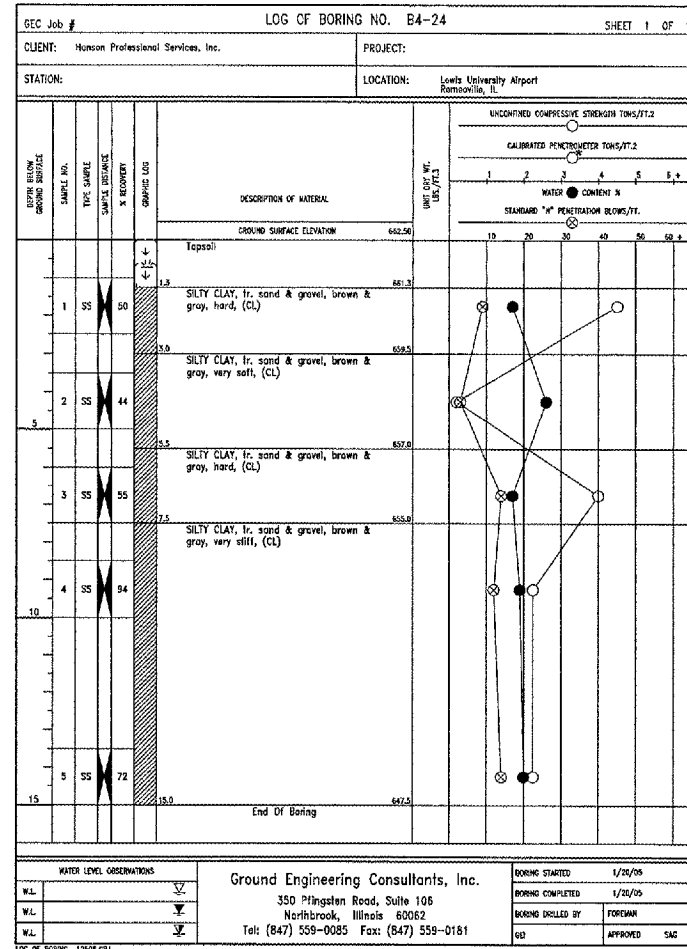
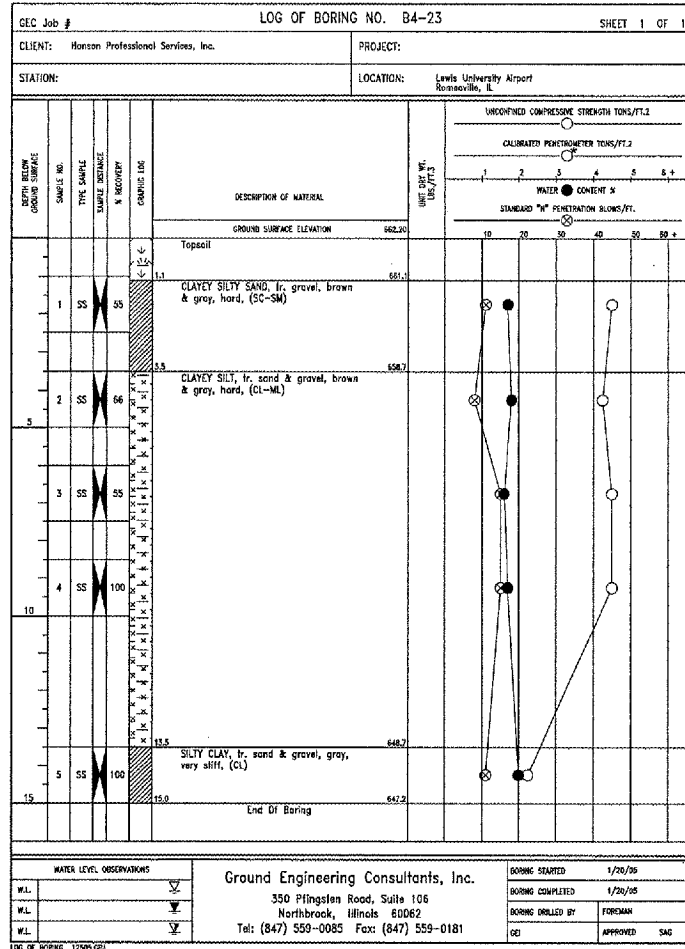
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Date: MARCH 25, 2005
Sheet Title:

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 LDH 03/01/05
 Layout By Date
 LDH/TMM 03/12/05
 Designed By Date
 RMH 03/16/05
 Reviewed By Date
 LDH
 Drawn By Sheet No.

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HANSON PROFESSIONAL SERVICES INC.
815 Commerce Drive, Suite 200
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AIP PROJECT NO. 3-17-0140-B38
IDA PROJECT NO. LOT-3441

No.	Drawing Issue Description	Date	By

Date
MARCH 25, 2005
Sheet Title

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B4-23 THRU B4-28

840-0408041
Project Number
LDH 03/01/05
Layout By Date
LDH/TMM 03/12/05
Designed By Date
RMH 03/16/05
Reviewed By Date
LDH
Drawn By Sheet No.

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HANSON PROFESSIONAL SERVICES INC.

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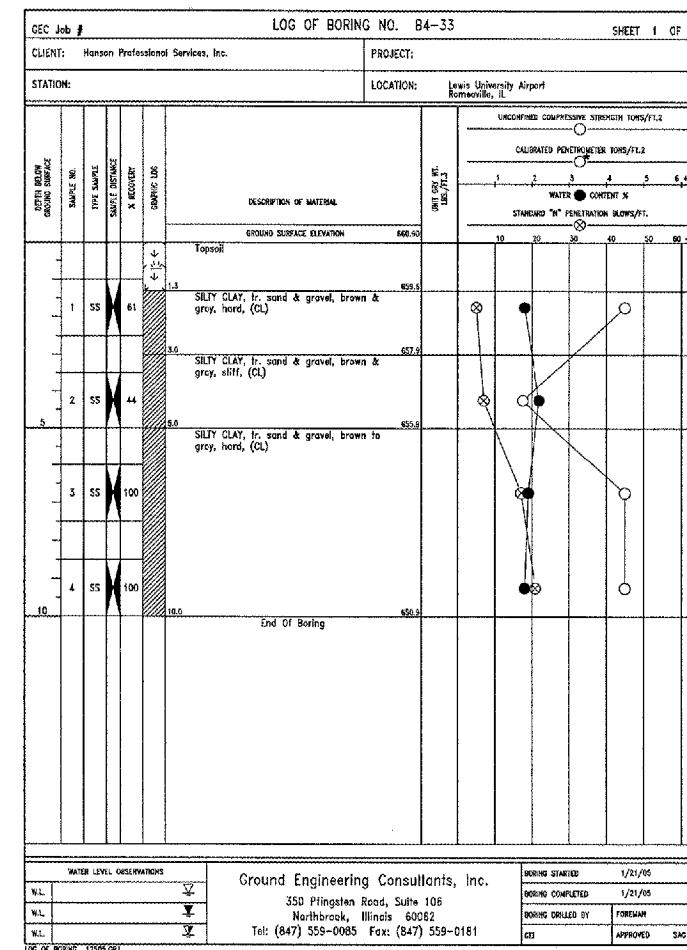
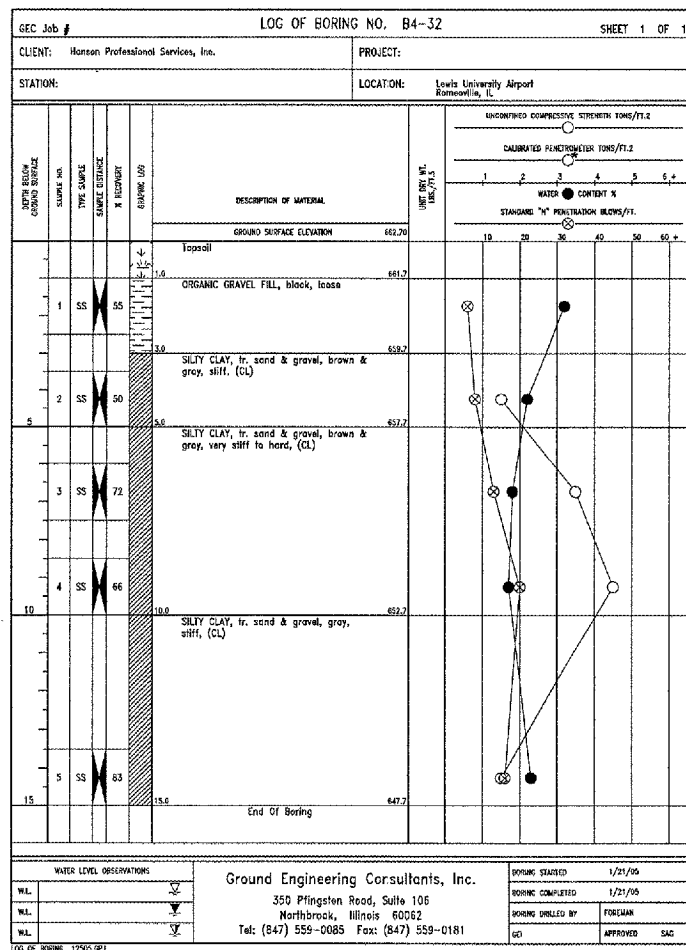
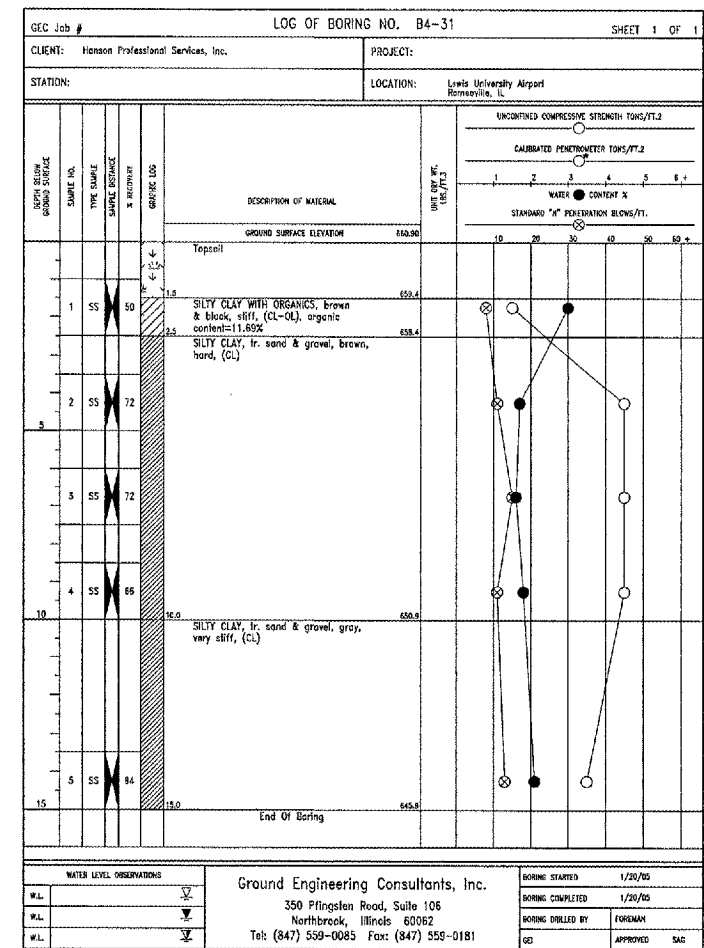
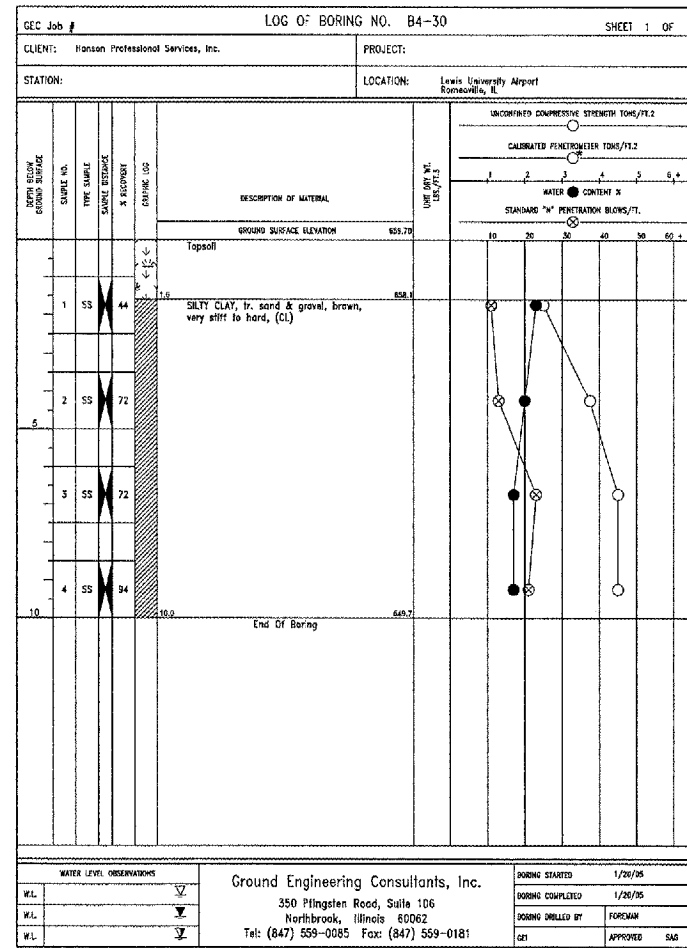
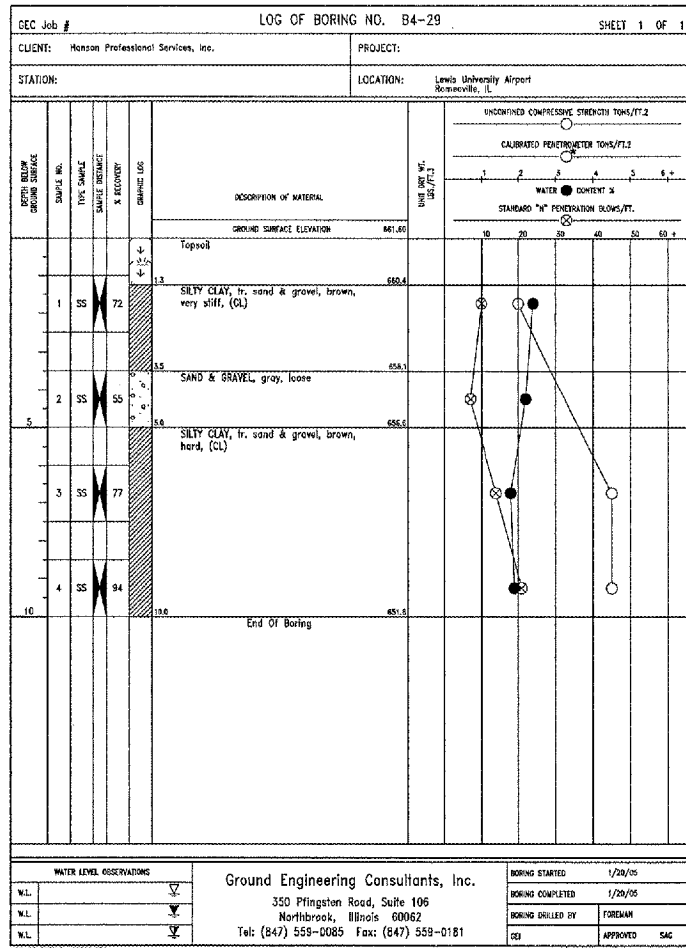


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IDA PROJECT NO. LOT-3441



No.	Drawing Issue Description	Date	By

Date
MARCH 25, 2005
Sheet Title

**BORING LOGS
B4-29 THRU B4-33**

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Project Number
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Layout By Date
LDH/TMM 03/12/05
Designed By Date
RMH 03/16/05
Reviewed By Date
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