

SUMMARY OF QUANTITIES

Item No.	Description	Unit	As Bid	Record Paid
AR108088	1IC #8 XLP-USE	Linear Foot	3,670.0	
AR109924	Replace Electric Services	Lump Sum	1.0	
AR110502	2-Way Concrete Encased Duct	Linear Foot	252.0	
AR110504	4-Way Concrete Encased Duct	Linear Foot	123.0	
AR110506	6-Way Concrete Encased Duct	Linear Foot	82.0	
AR125100	Elevated Retroreflective Marker	Each	127.0	
AR125901	Remove Stake Mounted Light	Each	6.0	
AR150510	Engineer's Field Office	Lump Sum	1.0	
AR152410	Unclassified Excavation	Cubic Yard	28,650.0	
AR156510	Silt Fence	Linear Foot	3,810.0	
AR156520	Inlet Protection	Each	13.0	
AR162900	Remove Class E Fence	Linear Foot	106.0	
AR209610	Crushed Agg. Base Course - 10"	Square Yard	17,528.0	
AR401613	Bit. Surf. Cse. - Method I, Superpave	Ton	1,439.0	
AR401660	Saw and Seal Bit. Joint	Linear Foot	690.0	
AR401665	Bituminous Pavement Sawing	Linear Foot	257.0	
AR401900	Remove Bituminous Pavement	Square Yard	9,062.0	
AR403614	Bit. Base Cse. - Method II, Superpave	Ton	4,316.0	
AR403630	Bituminous Base Test Section	Each	1.0	
AR602510	Bituminous Prime Coat	Gallon	5,004.0	
AR603510	Bituminous Tack Coat	Gallon	5,004.0	
AR620520	Pavement Marking-Waterborne	Square Foot	6,705.0	
AR620525	Pavement Marking-Black Border	Square Foot	1,020.0	
AR701900	Remove Pipe	Linear Foot	140.0	
AR705506	6" Perforated Underdrain	Linear Foot	7,018.0	
AR705620	Underdrain End Section	Each	3.0	
AR705640	Underdrain Cleanout	Each	15.0	
AR800911	Remove and Store REIL	Lump Sum	1.0	
AR800915	Retaining Wall	Lump Sum	1.0	
AR800924	Adjust Fence	Linear Foot	20.0	
AR901510	Seeding	Acre	11.3	
AR905510	Topsolling (From On Site)	Cubic Yard	6,400.0	
AR905520	Topsolling (From Off Site)	Cubic Yard	2,660.0	
AR908510	Mulching	Acre	11.3	

PAYMENT WILL BE MADE UNDER THE ITEM NUMBERS, DESCRIPTIONS AND UNITS NOTED IN THE ABOVE TABLE IN ACCORDANCE WITH THE BASIS OF PAYMENT FOR EACH RESPECTIVE WORK ITEM NOTED IN THE SPECIAL PROVISIONS, COMPLETED AND ACCEPTED BY THE ENGINEER.

LK008

DATE	REVISION

VILLAGE OF LAKE IN THE HILLS
 600 Harvest Gate
 Lake in the Hills, Illinois 60156 Telephone:
 847.960.7410
 Fax: 847.960.7515

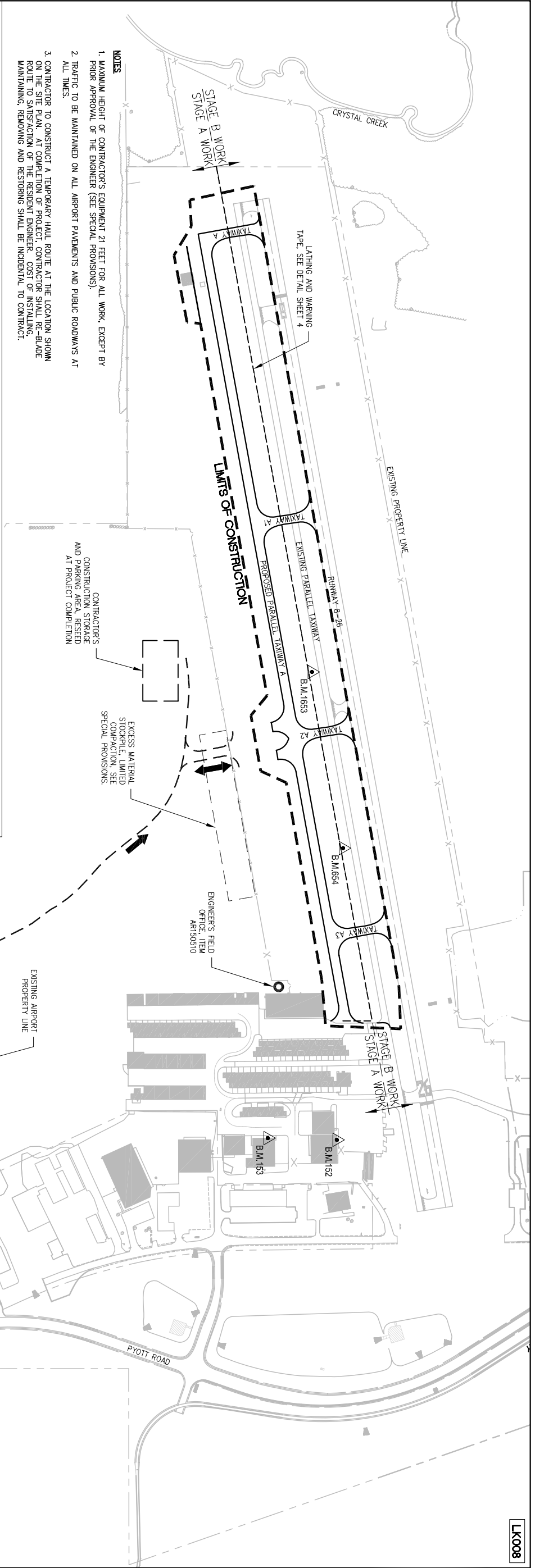


Hanson No.	09A0126	
Filename	02-SUMMARY OF QUANTITIES	
Scale		
Date	APRIL 16, 2010	
LAYOUT	SJM	3/04/10
DRAWN	SJM	3/04/10
REVIEWED	RMH	4/15/10

Hanson Professional Services Inc.
 815 Commerce Drive Suite 200
 Oak Brook, Illinois 60523

SUMMARY OF QUANTITIES

**CONSTRUCT PARALLEL TAXIWAY A,
 STAGE 2, PAVING**
 IDA No. 3CK-3881 AIP No. 3-17-0112-B13



- NOTES**
1. MAXIMUM HEIGHT OF CONTRACTOR'S EQUIPMENT 21 FEET FOR ALL WORK, EXCEPT BY PRIOR APPROVAL OF THE ENGINEER (SEE SPECIAL PROVISIONS).
 2. TRAFFIC TO BE MAINTAINED ON ALL AIRPORT PAVEMENTS AND PUBLIC ROADWAYS AT ALL TIMES.
 3. CONTRACTOR TO CONSTRUCT A TEMPORARY HAUL ROUTE AT THE LOCATION SHOWN ON THE SITE PLAN. AT COMPLETION OF PROJECT, CONTRACTOR SHALL RE-BLADE ROUTE TO SATISFACTION OF THE RESIDENT ENGINEER. COST OF INSTALLING, MAINTAINING, REMOVING AND RESTORING SHALL BE INCIDENTAL TO CONTRACT.

GENERAL NOTES

PROJECT DESCRIPTION
 THIS PROJECT IS TO COMPLETE PAVING OF THE NEW PARALLEL TAXIWAY AT LAKE IN THE HILLS AIRPORT INCLUDING, AMONG OTHER INCIDENTAL WORK, THE FOLLOWING ITEMS:

- PLACEMENT OF TEMPORARY SOIL EROSION CONTROL MEASURES
- REMOVAL OF EXISTING PAVEMENTS
- INSTALLATION OF AN UNDERDRAIN PIPE SYSTEM
- CONSTRUCTION OF TAXIWAY A, A1, A2, AND A3
- PAVEMENT MARKINGS
- INSTALLATION OF PAVEMENT EDGE REFLECTIVE MARKERS
- TOPSOILING, SEEDING AND MULCHING AROUND NEW PAVEMENTS

PROTECTION OF EXISTING AIRPORT FACILITIES

THE CONTRACTOR IS TO BE RESPONSIBLE FOR THE PROTECTION OF EXISTING UNDERGROUND AND OVERHEAD UTILITIES AND LIGHTING EQUIPMENT, DIRECTION AND ROAD PAVEMENT AND SHOULDERS, RUNWAY, TAXIWAY AND APRON PAVEMENTS AND SHOULDERS, RUNWAY, TAXIWAY AND AIRPORT LIGHTING EQUIPMENT, AND SEEDED AND TIERED 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 MANAGER AND THE OWNER'S REPRESENTATIVE.

IN ADDITION, WHEN CONDITIONS DICTATE OR AS DETERMINED BY THE AIRPORT MANAGER OR THE OWNER'S REPRESENTATIVE, THE CONTRACTOR SHALL BE REQUIRED TO USE A PICK-UP TRUCK TO TRANSPORT ALL EXCESS MATERIALS TO AN OFF-SITE LOCATION. THE CONTRACTOR WILL BE REQUIRED TO HAVE A SLEEPER AVAILABLE FOR USE AT ALL TIMES. THE COST OF SLEEPING 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 A TEMPORARY HAUL ROUTE TO AND WITHIN THE CONSTRUCTION LIMIT LINES AS SHOWN. THIS ROUTE SHOULD BE ESTABLISHED BY THE CONTRACTOR IN SUCH A MANNER AND OF THE TYPE OF MATERIALS NECESSARY TO ALLOW ITS USE FOR THE WEATHER CONDITIONS OCCURRING DURING THE CONSTRUCTION DURATION (SEE NOTE 3). HEAVY VEHICLES SHALL NOT CROSS EXISTING PAVEMENT SURFACES EXCEPT AS APPROVED BY THE AIRPORT MANAGER AND THE OWNER'S REPRESENTATIVE. 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 MANAGER AND THE OWNER'S REPRESENTATIVE.

THE CONTRACTOR IS TO PROVIDE AN EQUIPMENT STORAGE AND PARKING AREA AT THE LOCATION SHOWN ON THIS SHEET. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE STORAGE AREA DURING CONSTRUCTION AND TO RESTORE THE AREAS AT PROJECT COMPLETION TO CONDITIONS SUITABLE TO THE AIRPORT MANAGER AND THE OWNER'S REPRESENTATIVE. AT THE AIRPORT MANAGER'S DISCRETION, THE TEMPORARY FACILITIES MAY REMAIN, BUT THEY MUST BE LEFT IN CONDITIONS SUITABLE TO THE AIRPORT MANAGER. 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 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 UTILITY (PHONE 800-892-0123) TO ASSIST IN THE ABOVE.

THE CONTRACTOR SHALL PROTECT ANY FACILITIES TO THE SATISFACTION OF THE UTILITY OR OWNER-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 OWNER'S REPRESENTATIVE 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 BENCHMARKS

PRIMARY PROJECT BENCHMARKS, TO BE RELOCATED IN 2010, ARE AS FOLLOWS:

▲ B.M.1653 N 201797.29 E 986934.38 ELEV. 886.92	▲ B.M.654 N 2017913.28 E 987586.05 ELEV. 884.94
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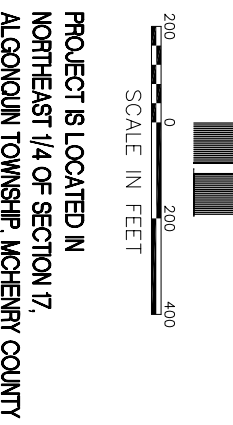
SECONDARY PROJECT BENCHMARKS, IF PRIMARY BENCHMARKS HAVE NOT BEEN RELOCATED, ARE AS FOLLOWS:

▲ B.M.152 NAD 88 (ADJUSTED 6/1991) ELEVATION 888.80	▲ B.M.153 NAD 88 (ADJUSTED 6/1991) ELEVATION 886.55
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LOCATION - SET VERTICALLY IN THE NORTH FACE OF THE NORTHWEST CORNER OF CONCRETE FOUNDATION OF THE NORTH ONE OF TWO LARGE CONCRETE BLOCK HANGARS, 1/2 FEET EAST OF THE NORTHWEST CORNER, 1 FOOT ABOVE THE LEVEL OF THE GROUND, AND ABOUT LEVEL WITH THE ENHANCE DRIVE.

▲ B.M.153
NAD 88 (ADJUSTED 6/1991)
ELEVATION 886.55

LOCATION - SET VERTICALLY IN THE WEST FACE OF THE NORTHWEST CORNER OF THE CONCRETE FOUNDATION OF THE SOUTH ONE OF TWO LARGE CONCRETE BLOCK HANGARS, 1 FOOT SOUTH OF THE NORTHWEST CORNER, AND 1/2 FOOT ABOVE THE LEVEL OF CONCRETE RAMP.



PROJECT IS LOCATED IN
 NORTHEAST 1/4 OF SECTION 17,
 ALGONQUIN TOWNSHIP, MCHENNY COUNTY

DATE	REVISION



VILLAGE OF LAKE IN THE HILLS
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 Lake in the Hills, Illinois 60156 Telephone:
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Hanson No.	09A0126	
Filename	03-SITE_PLAN.DWG	
Scale	1"=200'	
Date	APRIL 16, 2010	
LAYOUT	LDH	3/04/10
DRAWN	SJM	3/04/10
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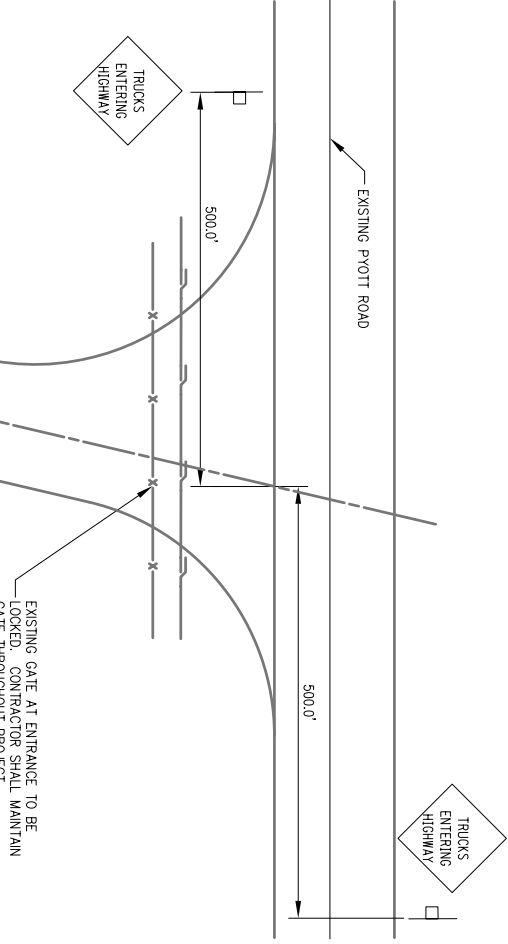
SITE PLAN AND GENERAL NOTES

CONSTRUCT PARALLEL TAXIWAY A, STAGE 2, PAVING
 IDA No. 3CK-3881 AIP No. 3-17-0112-B13

CONSTRUCTION AND SAFETY NOTES

CONSTRUCTION ENTRANCE NOTES:

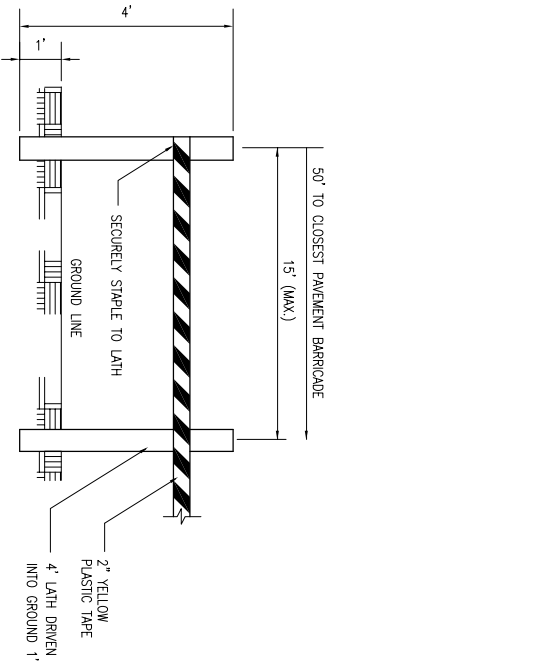
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAYS MUST BE REMOVED IMMEDIATELY.
2. CONTRACTOR SHALL FURNISH CONSTRUCTION SIGNS ON PYLOT ROAD AS SHOWN OR AS REQUIRED BY MOCHENEY COUNTY DOT. COST OF SIGNS SHALL BE INCIDENTAL TO CONSTRUCTION ENTRANCE.
3. COST OF INSTALLING, MAINTAINING, REMOVING AND RESTORING ENTRANCE SHALL BE INCIDENTAL TO THE CONTRACT.



HAUL ROUTE NOTES:

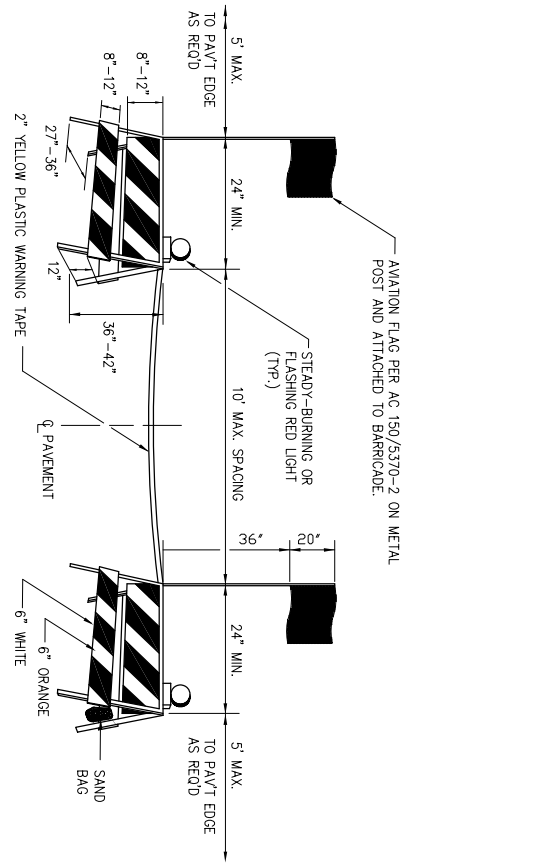
1. HAUL ROUTE TO BE CONSTRUCTED SO AS TO PROVIDE ACCESS TO THE SITE DURING WEATHER CONDITIONS AND AT THE LOCATION SHOWN IN THE SITE PLAN.
2. FROM THE CONSTRUCTION ENTRANCE TO THE WORK SITE, A 50 FOOT WIDE STRIP SHALL BE CLEARED ALONG THE HAUL ROUTE, AVOIDING THE REMOVAL OF ANY TREES. THIS CLEARING IS NOT INCLUDED IN THE CONTRACT, BUT IS INCIDENTAL TO CONTRACT.
3. MAINTENANCE OF THE HAUL ROUTE IS THE RESPONSIBILITY OF THE CONTRACTOR AND AT THE DISCRETION OF THE RESIDENT ENGINEER.

**DETAIL C
 CONSTRUCTION ENTRANCE
 AND HAUL ROUTE**



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
 NTS**



BARRICADES ARE TO BE OF DOT 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 CONSTRUCTED IN ANY MANNER. COST OF FURNISHING, INSTALLING, RELOCATING, MAINTAINING AND REMOVING BARRICADES IS TO BE INCIDENTAL TO THE CONTRACT.

**DETAIL B
 PAVEMENT BARRICADES**

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. THE CONTRACTOR SHALL EXPEDITE WORK AT THOSE STAGES WHEN ACTIVE RUNWAYS, TAXIWAYS, APRONS, AIRWAYS OR PARKING LOTS MUST BE CLOSED TO MINIMIZE THE LENGTH OF TIME THAT AIRPORT OPERATIONS ARE RESTRICTED. A CONSTRUCTION STAGING PLAN DETAILING THE SEQUENCING OF THE CONTRACTOR'S WORK THROUGHOUT THE PROJECT IS INCLUDED IN THE PLANS. THE CONTRACTOR SHALL PROVIDE HIS WRITTEN ACCEPTANCE OF THE PROJECT CONSTRUCTION STAGING PLAN AT THE PRE-CONSTRUCTION CONFERENCE. ANY AND ALL CHANGES TO THE CONSTRUCTION STAGING PLAN THAT MAY BE REQUESTED BY THE CONTRACTOR MUST BE APPROVED BY THE PROJECT ENGINEER AND THE AIRPORT OWNER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE SUFFICIENT ADVANCE NOTICE OF ANY PROPOSED STAGING CHANGE TO PERMIT CONSIDERATION AND APPROVAL BY THE PROJECT ENGINEER AND THE AIRPORT OWNER. THE CONTRACTOR SHALL NOT BE ENTITLED TO ANY EXTRA COMPENSATION NOR EXTENSION TO THE CONTRACT TIME BECAUSE OF A STAGING CHANGE REQUEST NOR FOR ANY TIME NECESSARY IN RECEIVING THE REQUIRED APPROVALS.

LATHING AND WARNING TAPE

THE PROJECT WILL REQUIRE THE PLACEMENT OF LATHING AND WARNING TAPE TO DELINEATE THE WORK AREA FROM ACTIVE AIRPORT OPERATIONS AREAS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE, PLACE AND MAINTAIN LATHING AND WARNING TAPE SHOWN ON SHEETS 8 AND 9, AND IN DETAIL A, THIS SHEET, AND AS DIRECTED BY THE RESIDENT ENGINEER AND THE AIRPORT DIRECTOR. THE CONTRACTOR WILL FURNISH, PLACE, MAINTAIN AND RELOCATE THE LATHING AND WARNING TAPE AS REQUIRED. THE COST OF THESE ITEMS, AND THEIR MAINTENANCE, IS TO BE INCIDENTAL TO THE CONTRACT.

TEMPORARY BARRICADES ON AIRFIELD

THE PROJECT WILL REQUIRE THE PLACEMENT OF BARRICADES TO DELINEATE PORTIONS OF THE CONSTRUCTION AREA AND TO EFFECT TEMPORARY CLOSURES OF ACTIVE TAXIWAYS. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO FURNISH, PLACE AND MAINTAIN BARRICADES AS SHOWN ON SHEETS 8 AND 9, AND IN 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. ANY WORK THAT REQUIRES PORTIONS OF AN ACTIVE TAXIWAY OR APRON TO BE CLOSED MUST BE COMPLETED EXPEDITIOUSLY TO MINIMIZE DISRUPTION TO AIRPORT OPERATIONS.

MAINTENANCE OF RUNWAY AND TAXIWAY SAFETY AREAS

OPEN TRENCHES, EXCAVATIONS AND STOCKPILED MATERIAL AT THE CONSTRUCTION SITE SHALL BE DELINEATED WITH THE USE OF BARRICADES DURING HOURS OF RESTRICTED VISIBILITY AND/OR DARKNESS. NO OPEN TRENCHES SHALL BE ALLOWED WITHIN THE RUNWAY SAFETY AREA (RSA) OR THE TAXIWAY SAFETY AREA (TSA) WHEN THE RUNWAY OR TAXIWAY IS OPEN TO AIR TRAFFIC (INCLUDING OVERTIGHT). THE RSA IS DEFINED AS 75 FEET FROM THE RUNWAY CENTERLINE AND 300 FEET FROM THE END OF THE RUNWAY. THE TSA IS MEASURED AT 39.5 FEET FROM THE TAXIWAY CENTERLINE. NO VERTICAL DROP OF GREATER THAN 3-INCHES IN HEIGHT FROM PAVEMENT EDGE TO EARTH GRADE OR EARTH GRADE WITHIN THE RSA OR TSA WILL BE PERMITTED WHEN THE RUNWAY OR TAXIWAY IS OPEN TO AIR TRAFFIC. THE CONTRACTOR WILL HAVE STEEL PLATES ON-SITE TO ALLOW FOR THE RAPID COVERING OF TRENCHES OR EARTH DROPS IN THE EVENT OF UNEXPECTED WORK STOPPAGES FOR WEATHER OR AIRPORT EMERGENCIES.

RUNWAY CLOSURE

THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER AND AIRPORT OWNER 7 DAYS IN ADVANCE OF THE CONTRACTOR'S CLOSING OF RUNWAY 8-26. THE DATE, TIME AND SCHEDULED DURATION OF THE CLOSING MUST BE APPROVED BY THE RESIDENT ENGINEER AND THE AIRPORT OWNER.

THE PROJECT WILL REQUIRE THE PLACEMENT OF RUNWAY CLOSURE MARKERS TO MINIMIZE DISRUPTION TO AIRPORT OPERATIONS ASSOCIATED WITH THE RUNWAY CLOSURE. CONSTRUCTION WORK MUST BE COMPLETED EXPEDITIOUSLY. RUNWAY CLOSURES SHALL ONLY BE PERMITTED BY PRIOR AUTHORIZATION OF THE RESIDENT ENGINEER AND THE AIRPORT OWNER.

WHENEVER THE RUNWAY IS CLOSED AS PRESCRIBED IN THE PLANS, THE CONTRACTOR WILL INSTALL, MAINTAIN, RELOCATE AND REMOVE EXISTING PRE-MANUFACTURED, VINYL RUNWAY CLOSURE MARKERS FURNISHED BY THE AIRPORT OWNER. THE CONTRACTOR SHALL SECURE THE MARKERS TO THE PAVEMENT SURFACE USING SANDBAGS OR OTHER WEIGHTS RECOMMENDED BY THE MARKER MANUFACTURER. WHEN REMOVING THE MARKERS AT THE END OF EACH WORK DAY, THE CONTRACTOR SHALL SWEEP THE PAVEMENT SURFACE TO REMOVE ANY DEBRIS OR OBJECTS. THE COST OF PLACING, RELOCATING AND REMOVING THESE ITEMS, AND THEIR MAINTENANCE, IS TO BE INCIDENTAL TO THE CONTRACT.

THE AIRPORT OWNER WILL DE-ENERGIZE AIRPORT/RUNWAY NAVIGATIONAL AID AND AIRFIELD LIGHTING POWER AND CONTROL CIRCUITS WHEN THE RUNWAY IS CLOSED.

HAUL ROUTE

THE CONTRACTOR SHALL MAINTAIN AN EXISTING HAUL ROUTE AS SHOWN IN THE SITE PLAN AND DETAIL C THIS SHEET. THE COST OF MAINTAINING AND RESTORING THE HAUL ROUTE AT PROJECT END SHALL BE INCIDENTAL TO THE CONTRACT. AT THE RESIDENT ENGINEER'S OPTION, THE HAUL ROUTE CAN REMAIN.

VEHICLE TRAFFIC CONTROL

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE AND PLACE ROAD WARNING SIGNS AND BARRICADES ON THE CONSTRUCTION ENTRANCE PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL MAINTAIN THE ITEMS AS REQUIRED, COST INCIDENTAL TO THE CONTRACT.

THE CONTRACTOR SHALL KEEP ALL OF HIS EQUIPMENT AND PERSONNEL AT LEAST 15 FEET FROM THE EDGE OF ANY ACTIVE ROADWAY OR AUTO PARKING PAVEMENT. WHEN HIS ACTIVITIES REQUIRE WORKING WITHIN 15 FEET OF THE ROAD/PAVEMENT EDGE, THE CONTRACTOR SHALL PROVIDE FOR TRAFFIC CONTROL IN ACCORDANCE WITH DOT SPECIFICATIONS (HIGHWAY STANDARDS).

AIRFIELD OPERATIONAL SAFETY DURING CONSTRUCTION

THE CONTRACTOR SHALL REMAIN WITHIN THE CONSTRUCTION LIMITS LINE SHOWN IN THE PLANS. WHEN OUTSIDE THESE LIMITS, ALL CONTRACTOR ACTIVITIES SHALL REMAIN MORE THAN 150 FEET FROM THE RUNWAY CENTERLINE AND 620 FEET FROM THE RUNWAY END. FOR WORK NEAR TAXIWAYS AND APRONS, THE CONTRACTOR'S PERSONNEL AND EQUIPMENT MUST REMAIN AT LEAST 65.5 FEET FROM ACTIVE TAXIWAYS AND 44.5 FEET FROM ACTIVE T-HANDLER TAXIWAYS, AND TEN (10) FEET FROM ACTIVE APRONS. WHEN CONSTRUCTION OPERATIONS MUST BE CONDUCTED WITHIN THESE SEPARATIONS, THE PAVEMENT MUST BE CLOSED TO AIRPORT ACTIVITY BY THE CONTRACTOR BY PROVIDING TEMPORARY BARRICADES AS SHOWN IN THE PLANS, AND IN THE CASE OF RUNWAY PAVEMENTS, CLOSED RUNWAY MARKERS.

WHEN IT IS NECESSARY FOR CONSTRUCTION VEHICLES TO OPERATE ON OR WITHIN THESE LIMITS, THE RUNWAY, TAXIWAYS OR APRON MUST BE CLOSED. THE CONTRACTOR WILL PROVIDE POSITIVE CONTROL OF CONSTRUCTION VEHICLES USING RADIO-EQUIPPED FLAGGERS. ALL CONTRACTOR'S EQUIPMENT USED IN ACTIVE AIRPORT OPERATIONS AREAS SHALL BE EQUIPPED WITH A FAA-STANDARD FLAG, AS REFERENCED IN FAA AC 150/5370-2, CURRENT ISSUE. AIRCRAFT SHALL HAVE THE RIGHT-OF-WAY. CONSTRUCTION VEHICLES SHALL NOT CROSS AN ACTIVE RUNWAY. THE COST OF ALL TRAFFIC CONTROL, BOTH WITHIN AND OUTSIDE OF AIRPORT OPERATIONS AREAS, IS TO BE INCIDENTAL TO THE CONTRACT.

WHEN NOT IN USE AND DURING NONWORKING HOURS, CONTRACTOR'S EQUIPMENT SHALL BE PARKED WITHIN THE CONTRACTOR'S EQUIPMENT STORAGE AND PARKING AREAS. THE EQUIPMENT STORAGE AND PARKING AREAS SHOWN IN THE SITE PLAN, SHEET 3, SHALL BE THE CONTRACTOR'S RESPONSIBILITY FOR MAINTAINING THE CONSTRUCTION ENTRANCE IN GOOD CONDITION. THE COST OF MAINTAINING THE CONSTRUCTION ENTRANCE IS TO BE INCIDENTAL TO THE CONTRACT.

AFTER REOPENING TEMPORARILY CLOSED RUNWAYS, TAXIWAYS OR ROADWAYS, 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 OWNER AND IS INCIDENTAL TO THE CONTRACT.

ALL CONTRACTOR EQUIPMENT IS LIMITED TO A HEIGHT OF 21 FEET.

NOTIFICATIONS BY CONTRACTOR

THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER AND AIRPORT OWNER 7 DAYS IN ADVANCE OF THE CONTRACTOR'S CLOSING OF ACTIVE TAXIWAYS. THE DATE, TIME AND SCHEDULED DURATION OF THE CLOSING MUST BE APPROVED BY THE RESIDENT ENGINEER AND THE AIRPORT OWNER. THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER AND AIRPORT OWNER 72 HOURS IN ADVANCE OF THE CONTRACTOR'S CLOSING OF OTHER ACTIVE ROADWAYS, AIRFIELD OR ROADWAY LIGHTING CIRCUITS, OR OTHER AIRPORT FACILITIES.

CONTRACTOR'S USE OF SITE

THE CONTRACTOR SHALL NOT OPERATE WITHIN, ENCRUMB UPON OR OBSTRUCT AIRPORT OPERATIONAL AREAS, INCLUDING ACTIVE RUNWAY, TAXIWAYS AND APRON SAFETY AREAS, OBSTACLE FREE ZONES, RUNWAY PROTECTION ZONES AND AIRPORT MAGNIFYING SURFACES AS DENIED IN FEDERAL AVIATION REGULATIONS (FAR) PART 71, OBJECTS FREE ZONE, 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.

DATE	REVISION

VILLAGE OF LAKE IN THE HILLS
 600 Harvest Gate
 Lake in the Hills, Illinois 60156 Telephone:
 847.960.7410
 Fax: 847.960.7515

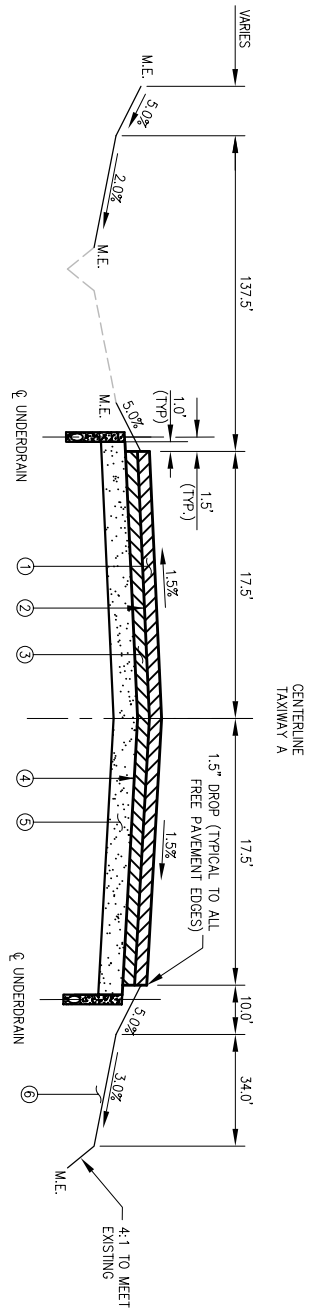


Hanson No.	09A0126	
Filename	04-SAFETY NOTES.DWG	
Scale		
Date	APRIL 16, 2010	
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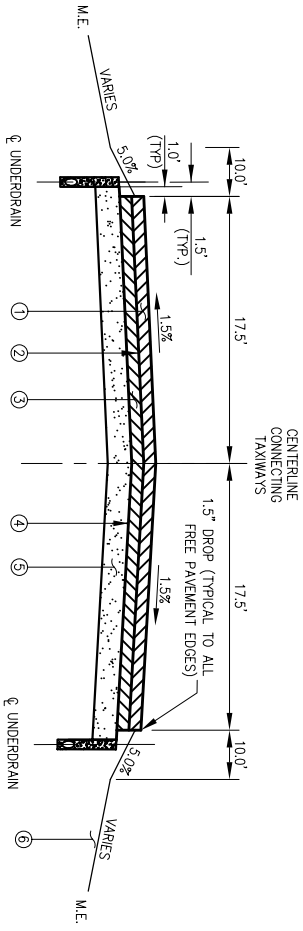
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Hanson Professional Services Inc.
 815 Commerce Drive Suite 200
 Oak Brook, Illinois 60523

**CONSTRUCTION SAFETY
 NOTES AND DETAILS**

**CONSTRUCT PARALLEL TAXIWAY A,
 STAGE 2, PAVING**
 IDA No. 3CK-3881 AIP No. 3-17-0112-B13

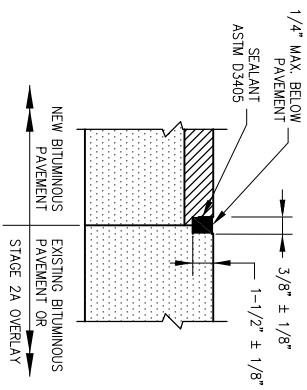


TYPICAL SECTION - TAXIWAY A
 (SECTION SHOWN LOOKING EAST)



TYPICAL SECTION - CONNECTING TAXIWAYS
 (SECTION SHOWN LOOKING SOUTH)

- ① PROPOSED 1 1/2 INCH BITUMINOUS SURFACE COURSE, ITEM AR401613
- ② PROPOSED BITUMINOUS TACK COAT, ITEM AR603510
- ③ PROPOSED 4 1/2 INCH BITUMINOUS BASE COURSE, ITEM AR403614
- ④ PROPOSED BITUMINOUS PRIME COAT, ITEM AR602510
- ⑤ PROPOSED 10 INCH CRUSHED AGGREGATE BASE COURSE, ITEM AR209610
- ⑥ PROPOSED 6 INCH TOPSOIL, ITEM AR905510 AND AR905520



NOTE:
 ALL JOINT SEALING TO BE PAID UNDER SAW AND SEAL BITUMINOUS JOINTS, ITEM AR401660.

BITUMINOUS/BITUMINOUS SEAL

LK008

DATE	REVISION

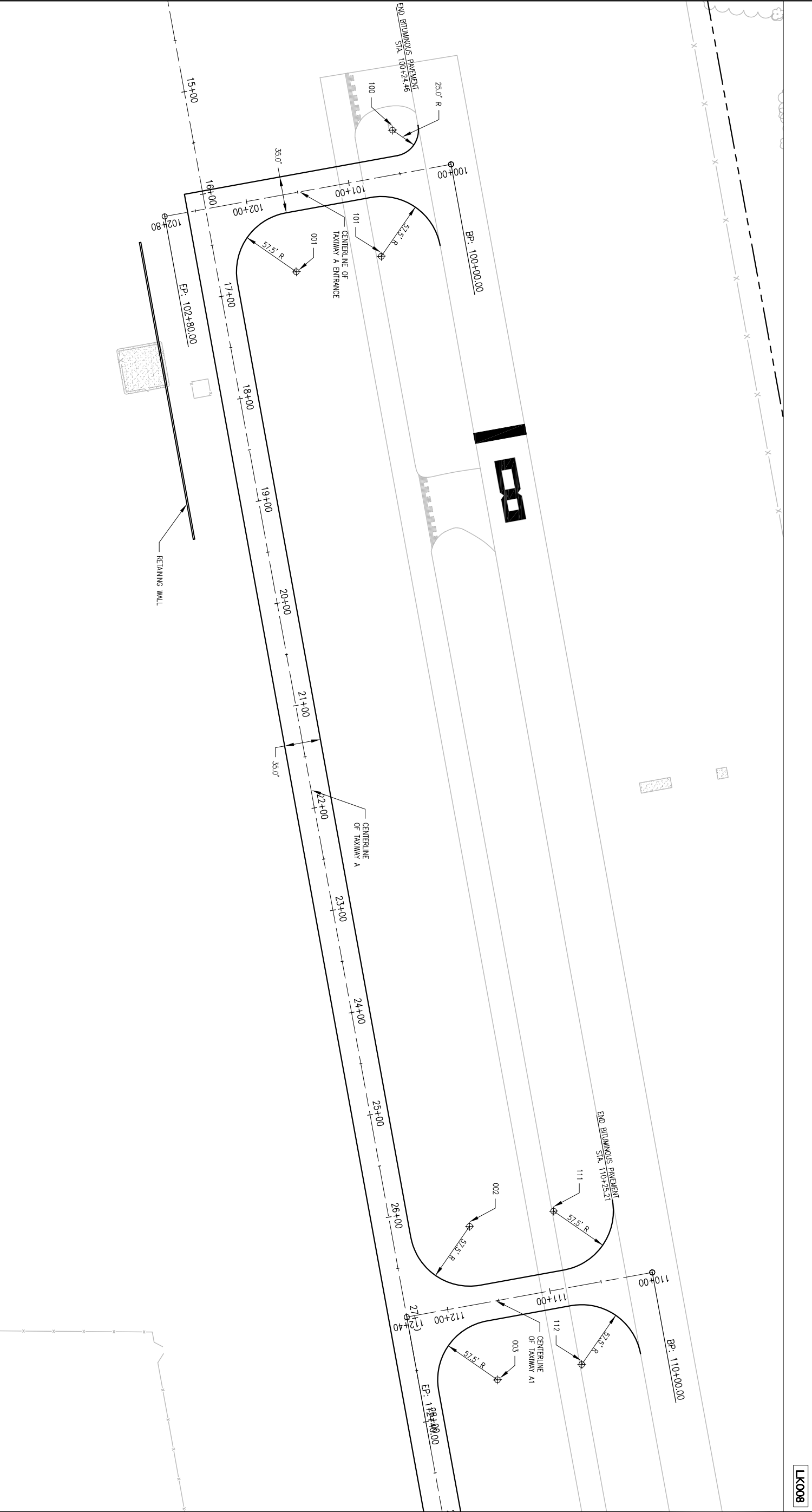
VILLAGE OF LAKE IN THE HILLS
 600 Harvest Gate
 Lake in the Hills, Illinois 60156 Telephone:
 847.960.7410
 Fax: 847.960.7515



Hanson No.	09A0126	
Filename	05-TYPICAL SECTIONS.DWG	
Scale		
Date	APRIL 16, 2010	
LAYOUT	LDH	3/05/10
DRAWN	SJM	3/05/10
REVIEWED	RMH	4/15/10

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TYPICAL PAVEMENT SECTIONS
CONSTRUCT PARALLEL TAXIWAY A, STAGE 2, PAVING
 IDA No. 3CK-3881 AIP No. 3-17-0112-B13



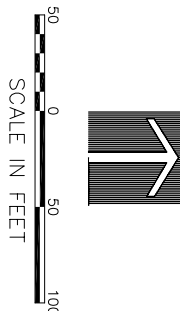
LK008

ALIGNMENT DATA

RUNWAY/TAXIWAY	DESCRIPTION	STATION	PROJECT COORDINATES	
			NORTHING	EASTING
TAXIWAY A	BEGINNING OF ALIGNMENT 10 END OF ALIGNMENT 10	10+00 46+15.39	2017296.43 2017932.68	984719.45 988276.61
TAXIWAY A0	BEGINNING OF ALIGNMENT 100 END OF ALIGNMENT 100	100+00 102+80	2017632.42 2017356.93	985281.21 985331.26
TAXIWAY A1	BEGINNING OF ALIGNMENT 110 END OF ALIGNMENT 110	110+00 112+40	2017826.01 2017589.88	986346.82 986389.72
TAXIWAY A2	BEGINNING OF ALIGNMENT 120 END OF ALIGNMENT 120	120+00 122+40	2017969.01 2017732.88	987133.94 987176.84
TAXIWAY A3	BEGINNING OF ALIGNMENT 130 END OF ALIGNMENT 130	130+00 132+40	2018103.21 2017867.07	987872.59 987915.49

CURVE DATA

CURVE #	CENTER	P.C.	P.T.
100	100+49.6 42.5' RT (25.0' RADIUS)	100+49.6 17.5' LT	100+24.6 42.5' LT
101	100+81.8 75.0' LT (57.5' RADIUS)	100+81.8 17.5' LT	100+24.3 74.8' LT
111	110+82.6 75.0' RT (57.5' RADIUS)	110+82.6 17.5' LT	110+25.3 75.10' LT
112	110+82.6 75.0' LT (57.5' RADIUS)	110+82.6 17.5' LT	110+25.1 74.90' LT
001	16+89.6 75.0' LT (57.5' RADIUS)	16+89.6 17.5' LT	16+32.1 75.0' LT
002	26+22.6 75.0' LT (57.5' RADIUS)	26+22.6 17.5' LT	26+80.1 75.0' LT
003	27+26 75.0' LT (57.5' RADIUS)	27+26 17.5' LT	27+15.1 75.0' LT



NOTE:
ALIGNMENTS ARE BASED ON PROJECT COORDINATES.

ALIGNMENT AND CURVE DATA

CONSTRUCT PARALLEL TAXIWAY A, STAGE 2, PAVING
 IDA No. 3CK-3881 AIP No. 3-17-0112-B13



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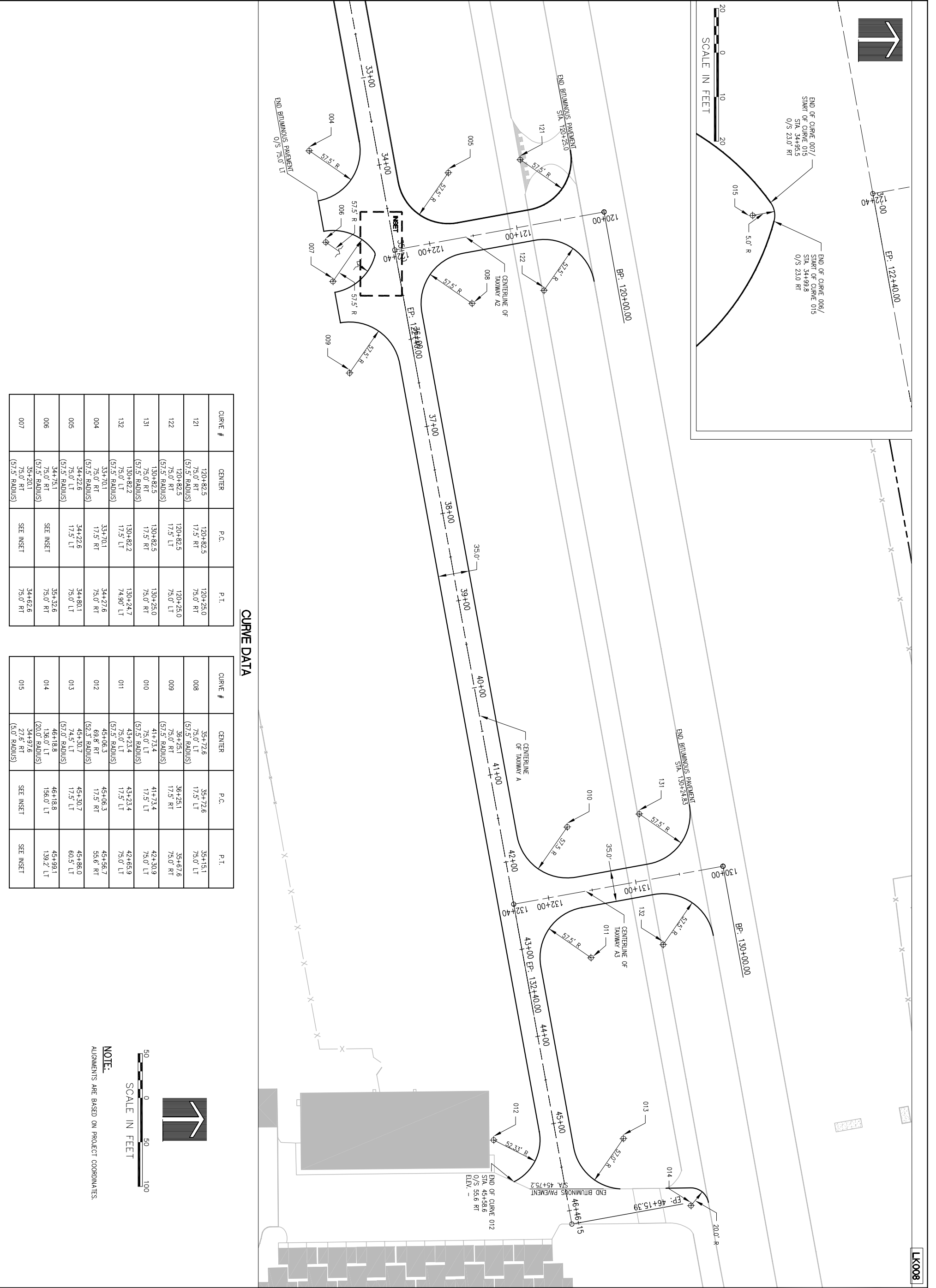
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 Date APRIL 16, 2010

LAYOUT	LDH	12/30/09
DRAWN	SJM	03/15/10
REVIEWED	RMH	4/15/10



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DATE	REVISION

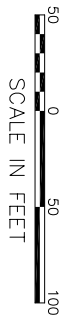


CURVE DATA

CURVE #	CENTER	P.C.	P.T.
121	120+82.5 75.0' RT (57.5' RADIUS)	120+82.5 17.5' RT	120+25.0 75.0' RT
122	120+82.5 75.0' RT (57.5' RADIUS)	120+82.5 17.5' LT	120+25.0 75.0' LT
131	130+82.5 75.0' RT (57.5' RADIUS)	130+82.5 17.5' RT	130+25.0 75.0' RT
132	130+82.2 75.0' LT (57.5' RADIUS)	130+82.2 17.5' LT	130+24.7 74.90' LT
004	33+70.1 75.0' RT (57.5' RADIUS)	33+70.1 17.5' RT	34+27.6 75.0' RT
005	34+22.6 75.0' LT (57.5' RADIUS)	34+22.6 17.5' LT	34+80.1 75.0' LT
006	34+75.1 75.0' RT (57.5' RADIUS)	SEE INSET	35+32.6 75.0' RT
007	33+20.1 75.0' RT (57.5' RADIUS)	SEE INSET	34+62.6 75.0' RT

CURVE #	CENTER	P.C.	P.T.
008	35+72.6 75.0' LT (57.5' RADIUS)	35+72.6 17.5' LT	35+15.1 75.0' LT
009	36+25.1 75.0' RT (57.5' RADIUS)	36+25.1 17.5' RT	35+67.6 75.0' RT
010	41+73.4 75.0' LT (57.5' RADIUS)	41+73.4 17.5' LT	42+30.9 75.0' LT
011	43+23.4 75.0' LT (57.5' RADIUS)	43+23.4 17.5' LT	42+65.9 75.0' LT
012	45+06.3 69.8' RT (52.3' RADIUS)	45+06.3 17.5' RT	45+96.7 55.6' RT
013	45+30.7 74.5' LT (57.0' RADIUS)	45+30.7 17.5' LT	45+86.0 60.5' LT
014	46+18.8 136.0' LT (20.0' RADIUS)	46+18.8 156.0' LT	45+99.1 139.2' LT
015	34+97.6 27.6' RT (5.0' RADIUS)	SEE INSET	SEE INSET

NOTE:
 ALIGNMENTS ARE BASED ON PROJECT COORDINATES.



LC008

ALIGNMENT AND CURVE DATA

CONSTRUCT PARALLEL TAXIWAY A, STAGE 2, PAVING
 IDA No. 3CK-3881 AIP No. 3-17-0112-B13

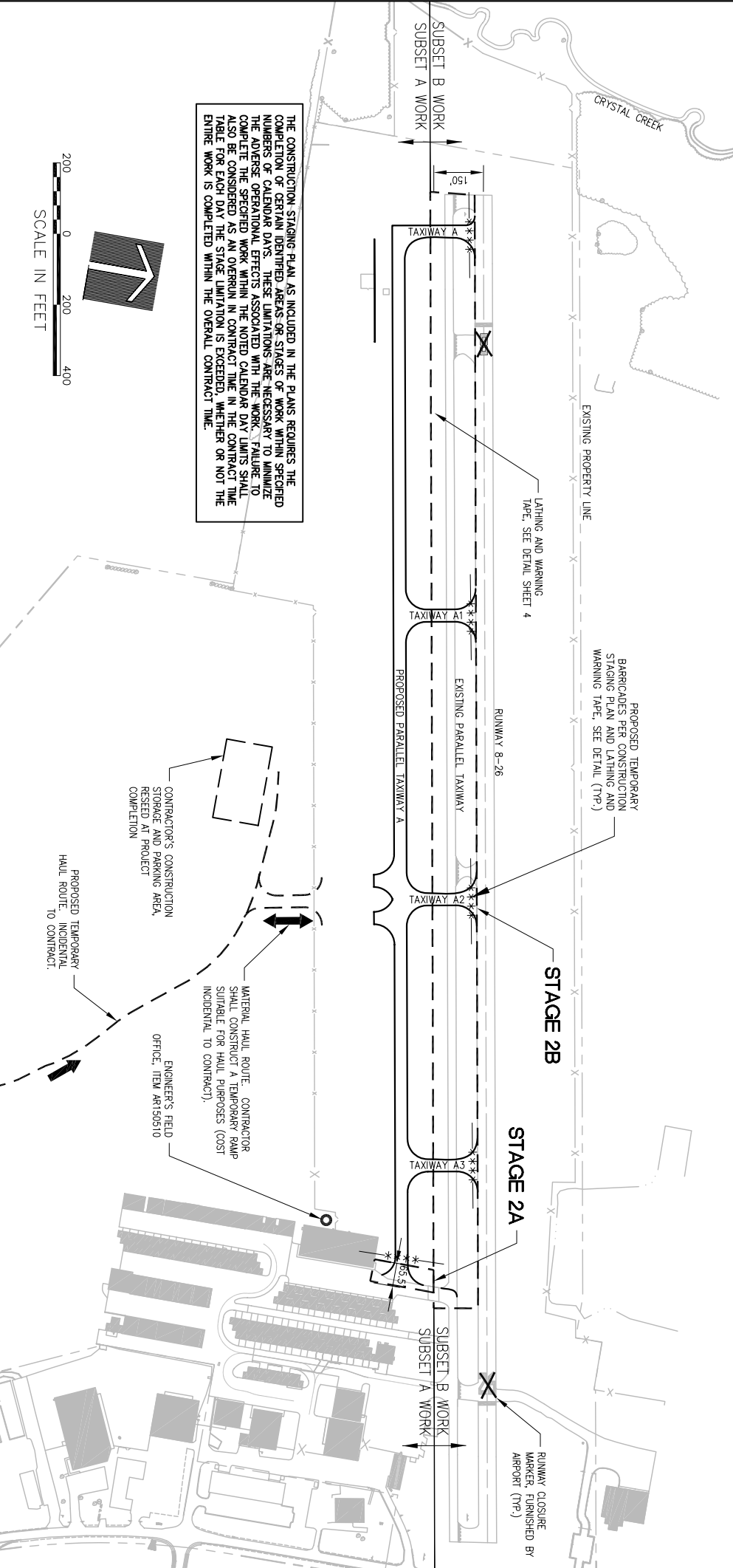
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REVIEWED	RMH	4/15/10

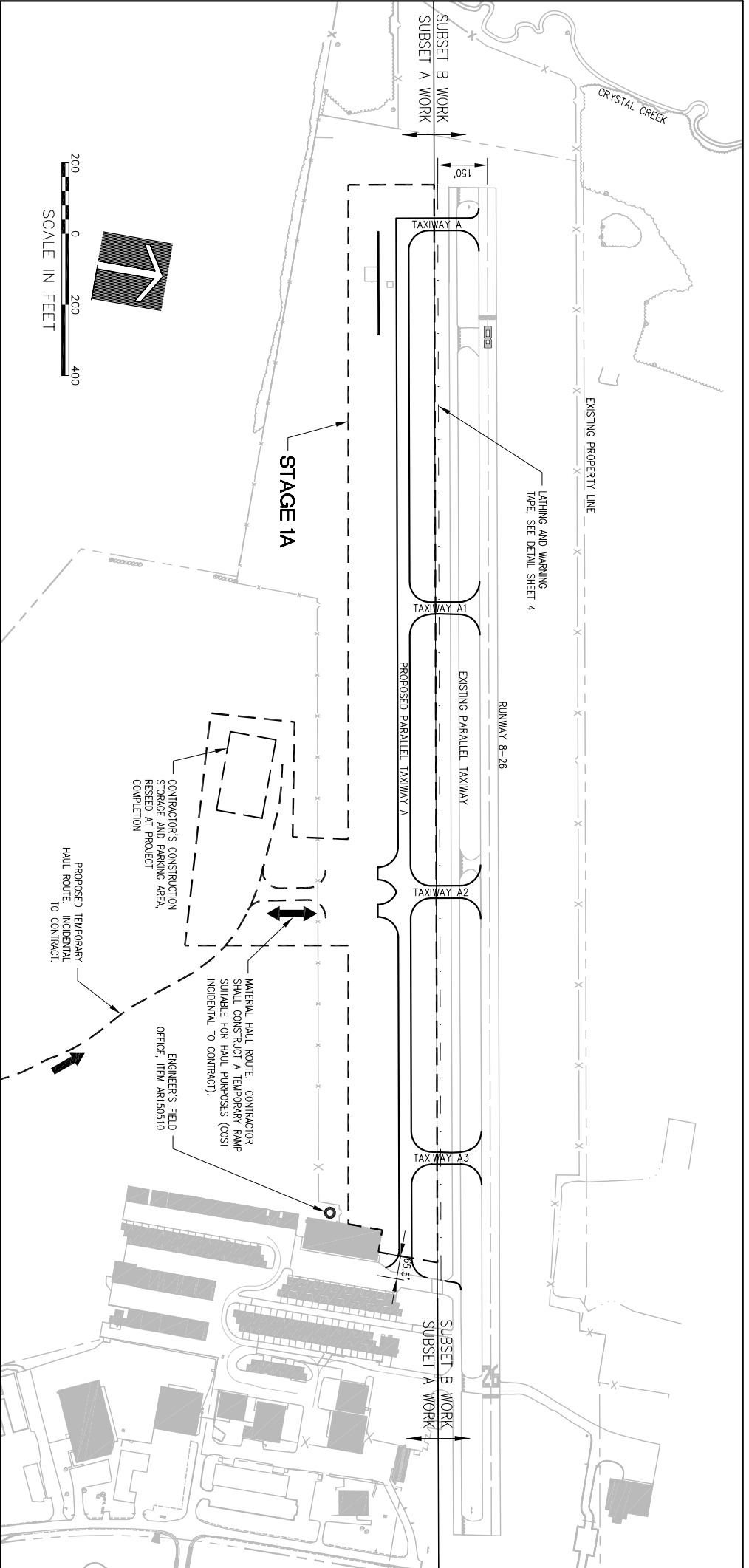


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DATE	REVISION



THE CONSTRUCTION STAGING PLAN AS INCLUDED IN THE PLANS REQUIRES THE COMPLETION OF CERTAIN IDENTIFIED AREAS OR STAGES OF WORK WITHIN SPECIFIED NUMBERS OF CALENDAR DAYS. THESE LIMITATIONS ARE NECESSARY TO MINIMIZE THE ADVERSE OPERATIONAL EFFECTS ASSOCIATED WITH THE WORK. FAILURE TO COMPLETE THE SPECIFIED WORK WITHIN THE NOTED CALENDAR DAY LIMITS SHALL ALSO BE CONSIDERED AS AN OVERRUN IN CONTRACT TIME IN THE CONTRACT TIME TABLE FOR EACH DAY THE STAGE LIMITATION IS EXCEEDED, WHETHER OR NOT THE ENTIRE WORK IS COMPLETED WITHIN THE OVERALL CONTRACT TIME.



GENERAL NOTES:

- ALL CONTRACTOR ACTIVITIES SHALL TAKE PLACE WITHIN STAGED CONSTRUCTION LIMIT LINES AS SHOWN.
- ALL CONSTRUCTION EQUIPMENT WILL BE LIMITED TO A HEIGHT OF 21 FEET UNLESS PRIOR APPROVAL GIVEN BY THE ENGINEER.
- CONTRACTOR'S EQUIPMENT MAY NOT DISRUPT FLIGHT OPERATIONS ON RUNWAY 8-26 EXCEPT DURING STAGES 2B WHEN RUNWAY 8-26 IS CLOSED.
- TRAFFIC TO BE MAINTAINED ON ALL AIRPORT ROADWAYS AT ALL TIMES.
- SEE CONSTRUCTION AND SAFETY NOTES.
- CERTAIN STAGES OF THE CONSTRUCTION STAGING PLAN REQUIRE THE TEMPORARY CLOSURE OF THE AIRPORT'S ONLY RUNWAY, RUNWAY 8-26. DUE TO THE SIGNIFICANT OPERATIONAL IMPACT THAT SUCH A CLOSURE HAS ON THE OPERATION OF THE AIRPORT, CONTRACTOR ACTIVITIES IN WHEN THE RUNWAY IS CLOSED SHALL BE COMPLETED EXPEDITIOUSLY. THE CONTRACTOR SHALL PROVIDE ADDITIONAL PERSONNEL AND EQUIPMENT, SHALL WORK EXTRA DAYS, SHALL MAKE USE OF PRE-CAST ITEMS WHERE POSSIBLE, AND SHALL FOLLOW OTHER PROCEDURES THAT MAY REASONABLY BE EXPECTED TO REDUCE THE LENGTH OF TIME THAT RUNWAY 8-26 MUST BE CLOSED TO TRAFFIC. THE COST OF FURNISHING EXTRA WORKERS, EQUIPMENT AND WORK DAYS, AND CONSTRUCTING AND FURNISHING PRE-CAST ITEMS SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCIDENTAL TO THE CONTRACT.

LK008

STAGE 1A NOTES:

- ALL WORK SHALL BE LIMITED TO THAT LOCATED MORE THAN 150 FEET FROM RUNWAY 8-26 CENTERLINE.
- THE FOLLOWING ITEMS ARE TO BE COMPLETED IN STAGE 1A:
 - PROVIDE ENGINEER'S FIELD OFFICE AND CONTRACTOR'S EQUIPMENT, STORAGE AND PARKING AREA.
 - PROVIDE LATHING AND WARNING TAPE AT 150 FEET AS SHOWN.
 - INSTALL TEMPORARY SOIL EROSION CONTROL MEASURES AS REQUIRED.
 - CONSTRUCT RETAINING WALL
 - COMPLETE EARTHWORK WITHIN STAGE 1A LIMITS.
 - PREPARE SUBGRADE WITHIN STAGE 1A LIMITS.
 - PLACE CRUSHED AGGREGATE BASE WITHIN STAGE 1A LIMITS.
 - INSTALL UNDERDRAINS WITHIN STAGE 1A LIMITS.
 - CONSTRUCT BITUMINOUS BASE COURSE WITHIN STAGE 1A LIMITS.
 - PLACE PROPOSED REFLECTIVE MARKERS WITHIN STAGE 1A LIMITS.
 - TOPSOIL AND SEED WITHIN STAGE 1A LIMITS.

STAGE 2A NOTES:

- THE FOLLOWING ITEMS ARE TO BE COMPLETED IN STAGE 2A:
 - 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 BASE COURSE WITHIN STAGE 2A LIMITS.
 - PLACE PROPOSED REFLECTIVE MARKERS WITHIN STAGE 2A LIMITS.
 - TOPSOIL AND SEED WITHIN STAGE 2A LIMITS.

STAGE 2B NOTES:

- WORK IN STAGE 2B SHALL BE LIMITED TO MAXIMUM OF 14 CALENDAR DAYS WITH THE RUNWAY TO BE CLOSED NO MORE THAN AN EIGHT (8) HOUR PERIOD IN EACH DAY. THE RUNWAY SHALL BE CLOSED ONLY BETWEEN THE HOURS OF 8AM AND 4PM. CONTRACTOR SHALL FURNISH 36 HOURS NOTICE PRIOR TO WORKING IN SUBSET B AREA.
- WORK WITHIN 150 FEET OF THE RUNWAY WILL BE PERFORMED AFTER THE CONTRACTOR HAS CLOSED THE RUNWAY. THE RUNWAY CLOSURE MARKERS WILL BE PROVIDED BY THE AIRPORT BUT IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PLACE AND REMOVE THE MARKERS EACH DAY.
- PRIOR TO OPENING THE RUNWAY EACH DAY, THE CONTRACTOR SHALL VERIFY THAT THERE ARE NO OPEN TRENCHES, NO SLOPES GREATER THAN 5%, AND NO GRADE CHANGES GREATER THAN 3 INCHES WITHIN THE RUNWAY SAFETY AREA. THESE TASKS SHALL BE COMPLETED IN SUFFICIENT TIME TO ALLOW THE RUNWAY TO BE REOPENED NO LATER THAN 4PM.
- THE FOLLOWING ITEMS ARE TO BE COMPLETED IN STAGE 2B:
 - COMPLETE EARTHWORK WITHIN STAGE 2B LIMITS.
 - PREPARE SUBGRADE WITHIN STAGE 2B LIMITS.
 - PLACE CRUSHED AGGREGATE BASE WITHIN STAGE 2B LIMITS.
 - INSTALL UNDERDRAINS WITHIN STAGE 2B LIMITS.
 - CONSTRUCT BITUMINOUS BASE COURSE WITHIN STAGE 2B LIMITS.
 - PLACE PROPOSED REFLECTIVE MARKERS WITHIN STAGE 2B LIMITS.
 - TOPSOIL AND SEED WITHIN STAGE 2B LIMITS.

DATE	REVISION

VILLAGE OF LAKE IN THE HILLS
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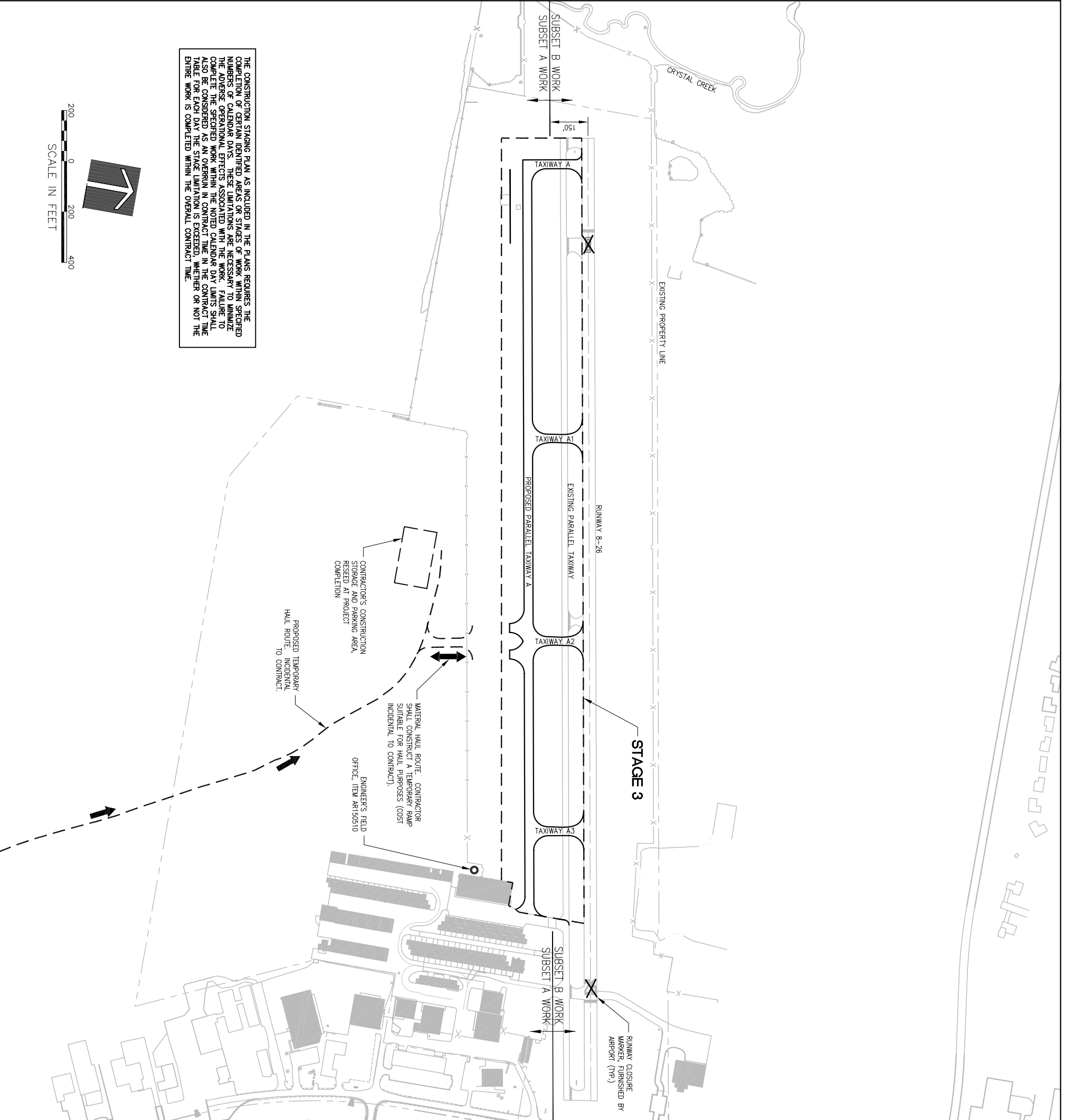


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LAYOUT	KMS	4/8/10
DRAWN	KMS	4/8/10
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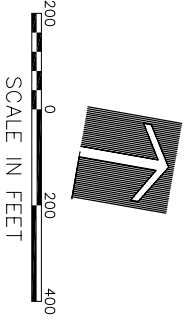
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CONSTRUCTION STAGING & SAFETY PLAN AND NOTES

CONSTRUCT PARALLEL TAXIWAY A, STAGE 2, PAVING
 IDA No. 3CK-3881 AIP No. 3-17-0112-B13



THE CONSTRUCTION STAGING PLAN AS INCLUDED IN THE PLANS REQUIRES THE COMPLETION OF CERTAIN IDENTIFIED AREAS OR STAGES OF WORK WITHIN SPECIFIED NUMBERS OF CALENDAR DAYS. THESE LIMITATIONS ARE NECESSARY TO MINIMIZE THE ADVERSE OPERATIONAL EFFECTS ASSOCIATED WITH THE WORK. FAILURE TO COMPLETE THE SPECIFIED WORK WITHIN THE NOTED CALENDAR DAY LIMITS SHALL ALSO BE CONSIDERED AS AN OVERTIME IN CONTRACT TIME IN THE CONTRACT TIME TABLE FOR EACH DAY THE STAGE LIMITATION IS EXCEEDED, WHETHER OR NOT THE ENTIRE WORK IS COMPLETED WITHIN THE OVERALL CONTRACT TIME.



NOTES:

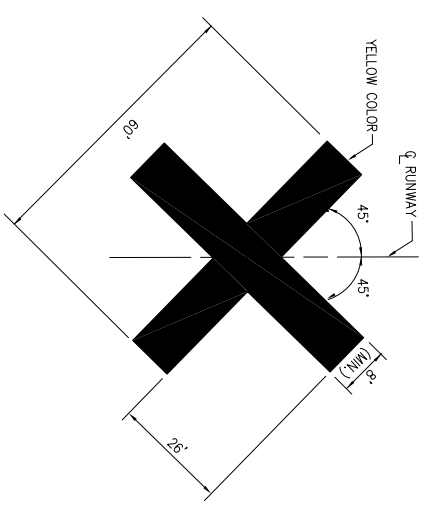
- ALL CONTRACTOR ACTIVITIES SHALL TAKE PLACE WITHIN STAGED CONSTRUCTION LIMIT LINES AS SHOWN.
- ALL CONSTRUCTION EQUIPMENT WILL BE LIMITED TO A HEIGHT OF 21 FEET UNLESS PRIOR APPROVAL GIVEN BY THE ENGINEER.
- CONTRACTOR'S EQUIPMENT MAY NOT DISRUPT FLIGHT OPERATIONS ON RUNWAY 8-26 EXCEPT DURING STAGES 2B WHEN RUNWAY 8-26 IS CLOSED.
- TRAFFIC TO BE MAINTAINED ON ALL AIRPORT ROADWAYS AT ALL TIMES.
- SEE CONSTRUCTION AND SAFETY NOTES.

STAGE 3 NOTES

- WORK IN STAGE 3 SHALL BE LIMITED TO MAXIMUM OF 4 CALENDAR DAYS WITH THE RUNWAY TO BE CLOSED NO LONGER THAN AN EIGHT (8) HOUR PERIOD IN EACH DAY. THE RUNWAY SHALL BE CLOSED ONLY BETWEEN THE HOURS OF 8AM AND 4PM. CONTRACTOR SHALL FURNISH 36 HOURS NOTICE PRIOR TO WORKING IN SUBSET B AREA.
- WORK WITHIN 150 FEET OF THE RUNWAY WILL BE PERFORMED AFTER THE CONTRACTOR HAS CLOSED THE RUNWAY. THE RUNWAY CLOSURE MARKERS WILL BE PROVIDED BY THE AIRPORT BUT IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PLACE AND REMOVE THE MARKERS EACH DAY.
- PRIOR TO OPENING THE RUNWAY EACH DAY, THE CONTRACTOR SHALL VERIFY THAT THERE ARE NO OPEN TRENCHES, NO SLOPES GREATER THAN 5% AND NO GRADE CHANGES GREATER THAN 3 INCHES WITHIN THE RUNWAY SAFETY AREA. THESE TASKS SHALL BE COMPLETED IN SUFFICIENT TIME TO ALLOW THE RUNWAY TO BE REOPENED NO LATER THAN 4PM.

THE FOLLOWING ITEMS ARE TO BE COMPLETED IN STAGE 1:

- CONSTRUCT BITUMINOUS SURFACE COURSE WITHIN STAGE 3 LIMITS.
- PLACE PAVEMENT MARKINGS WITHIN STAGE 3 LIMITS.
- CLEAN UP ANY REMAINING MATERIAL AND DEBRIS AND SWEEP PAVEMENT PRIOR TO REOPENING.
- REMOVE LATING AND WARNING TAPE AND TEMPORARY BARRICADES.
- REMOVE TEMPORARY SOIL EROSION CONTROL MEASURES ONCE A STAND OF GRASS HAS DEVELOPED.



NOTES

1. VINYL MARKERS SHALL BE FURNISHED BY THE OWNER. THE CONTRACTOR SHALL FURNISH ALL LABOR AND MATERIALS FOR INSTALLING, RELOCATING AND MAINTAINING THE MARKERS, WHOSE COST SHALL BE INCIDENTAL TO THE CONTRACT.
2. CONTRACTOR SHALL LOCATE THE MARKERS ON TOP OF THE RUNWAY NUMERALS DURING CLOSURE OF THE RUNWAY.
3. MARKERS TO BE SECURED BY CONTRACTOR AS RECOMMENDED BY THE MANUFACTURER.

DETAIL C
TEMPORARY RUNWAY CLOSED MARKER
 NTS

LK008

DATE	REVISION



VILLAGE OF LAKE IN THE HILLS
 600 Harvest Gate
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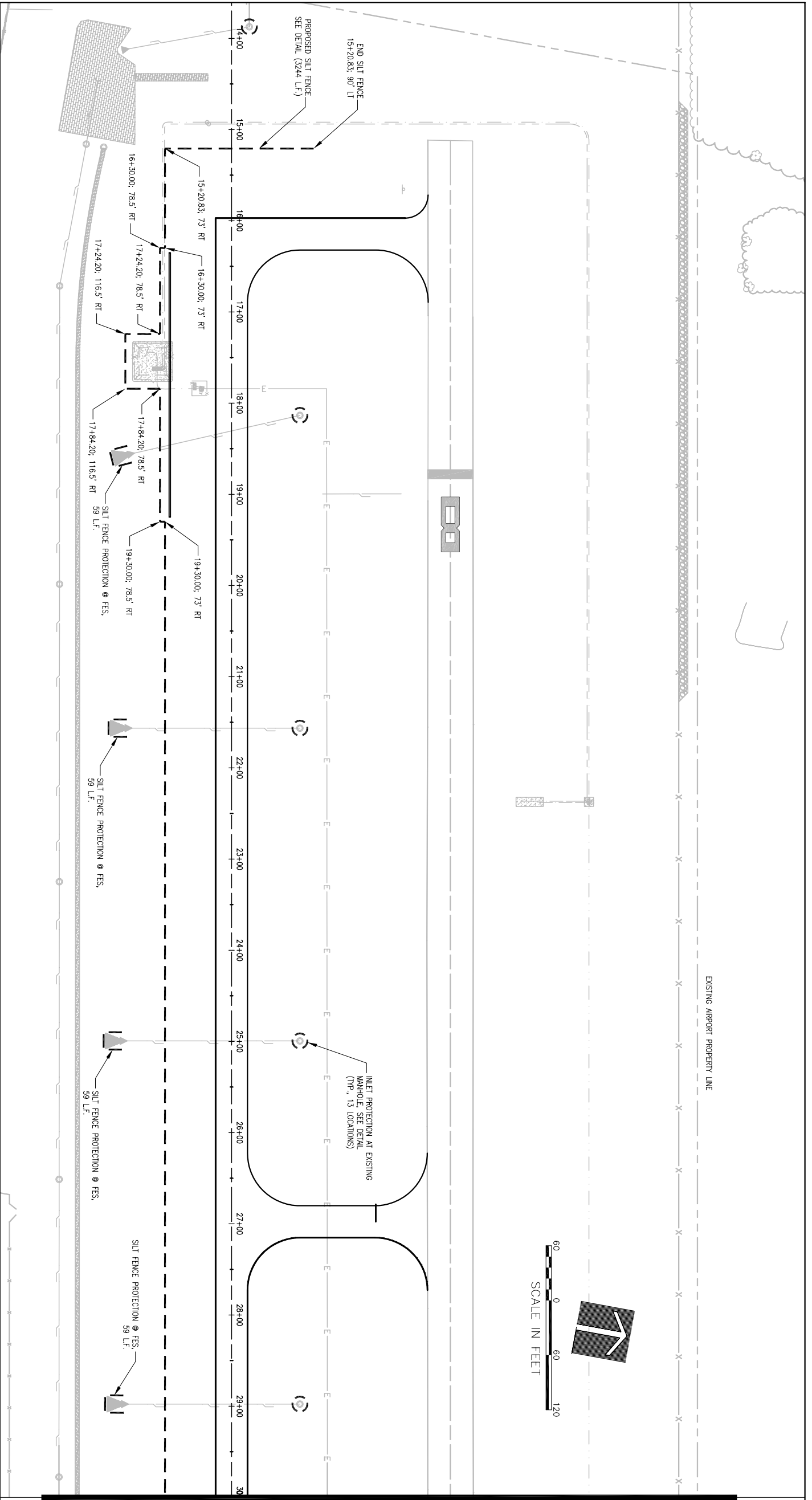
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Scale	1"=150'
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LAYOUT	KMS 4/8/10
DRAWN	KMS 4/8/10
REVIEWED	RMH 4/15/10

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CONSTRUCTION STAGING & SAFETY PLAN AND NOTES

CONSTRUCT PARALLEL TAXIWAY A, STAGE 2, PAVING
 IDA No. 3CK-3881 AIP No. 3-17-0112-B13



MATCH LINE STA. 30+00

LK008

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. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF SUCH MEASURES THROUGHOUT THE CONSTRUCTION PERIOD. 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:

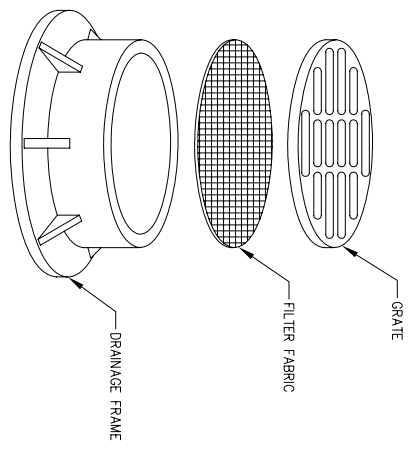
1. SEE CROSS SECTIONS AND STAKING PLANS FOR ADDITIONAL CONSTRUCTION LIMITS INFORMATION.

LEGEND

- 1. SEE CROSS SECTIONS AND STAKING PLANS FOR ADDITIONAL CONSTRUCTION LIMITS INFORMATION.
- PROPOSED SEEDING
- LIMITS OF TOPSOILING AND SOODING
- SILT FENCE
- PROPOSED INLET PROTECTION

NOTES:

1. FILTER WRAP TO BE PLACED IN ALL MANHOLES AS SHOWN.
2. FABRIC SHALL BE IN CONFORMANCE WITH MATERIALS SPECIFIED FOR SILT FENCE.
3. FABRIC SHALL OVERLAY FRAME BY 2 INCHES (MINIMUM).
4. CONTRACTOR SHALL CLEAR DEBRIS AND SILT AS REQUIRED FROM FABRIC TO MAINTAIN DRAINAGE THROUGH THE STRUCTURE.
5. FABRIC SHALL REMAIN IN PLACE UNTIL TIERED AREAS HAVE DEVELOPED A MINIMUM OF 80% OF COVERAGE.
6. COST OF FILTER WRAP SHALL BE INCIDENTAL TO INLET PROTECTION.



INLET PROTECTION - DRAINAGE STRUCTURE FILTER WRAP

DATE	REVISION

VILLAGE OF LAKE IN THE HILLS
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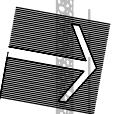
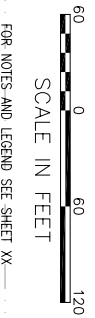
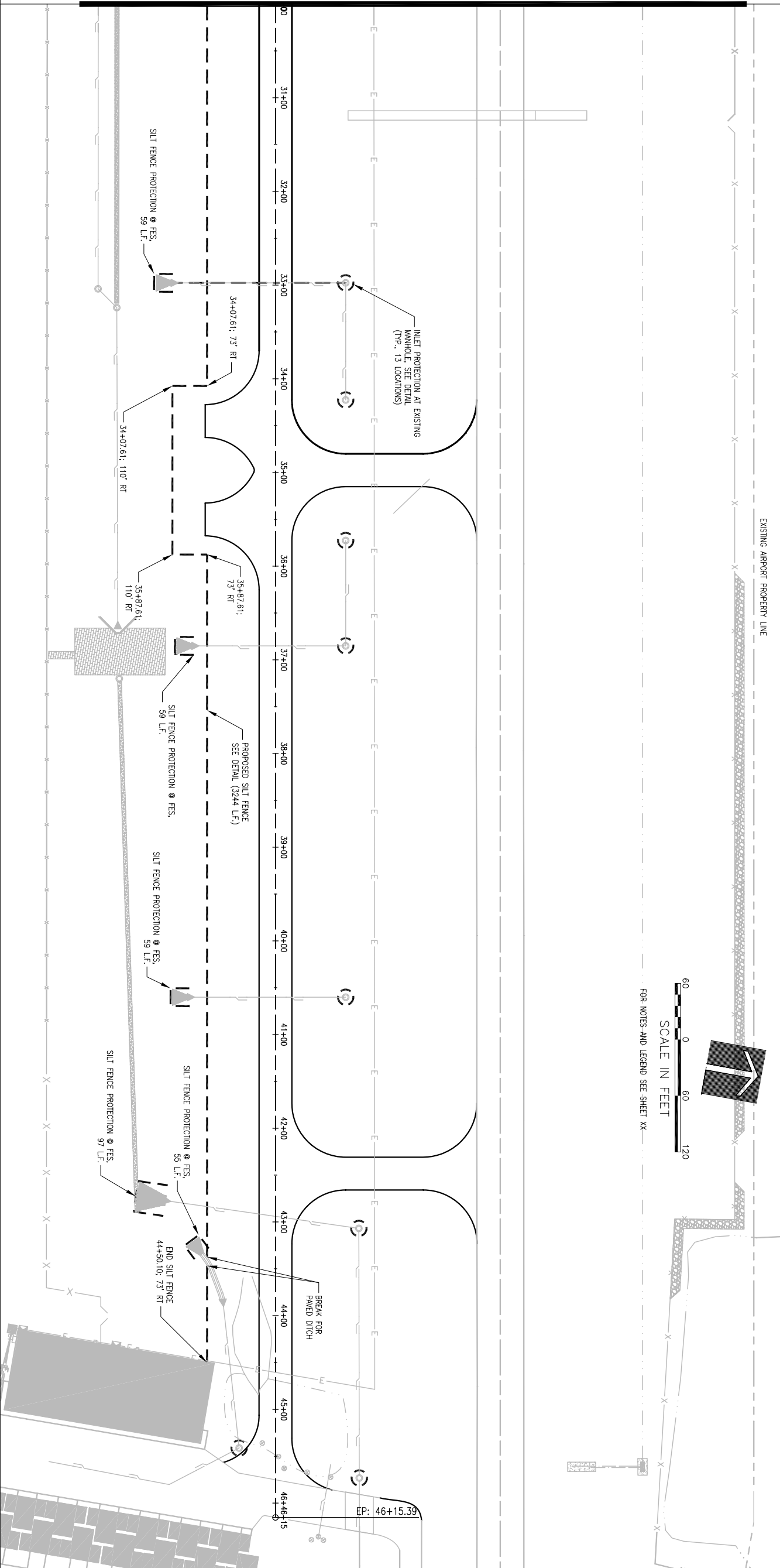


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Date	APRIL 16, 2010	
LAYOUT	KMS	3/19/10
DRAWN	KMS	3/19/10
REVIEWED	RMH	4/15/10

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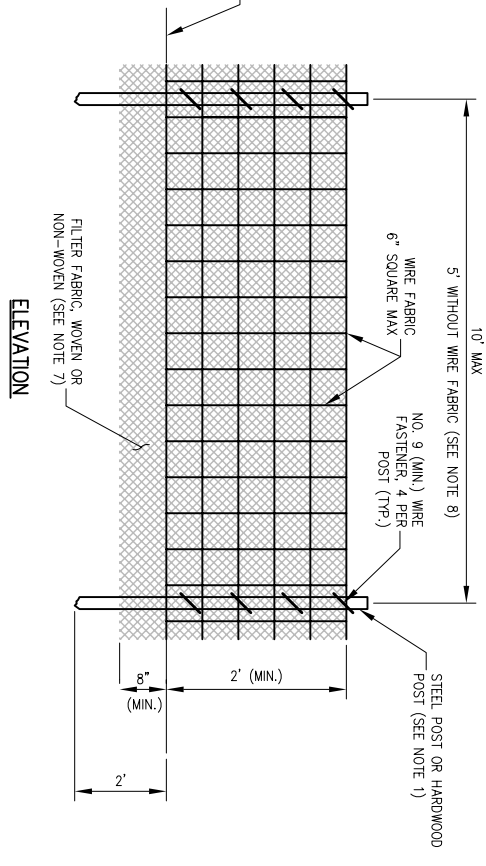
STORM WATER POLLUTION PREVENTION PLAN
CONSTRUCT PARALLEL TAXIWAY A, STAGE 2, PAVING
 IDA No. 3CK-3881 AIP No. 3-17-0112-B13

MATCH LINE STA. 30+00

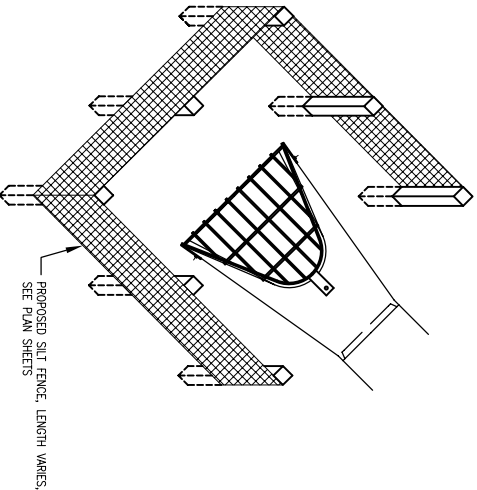


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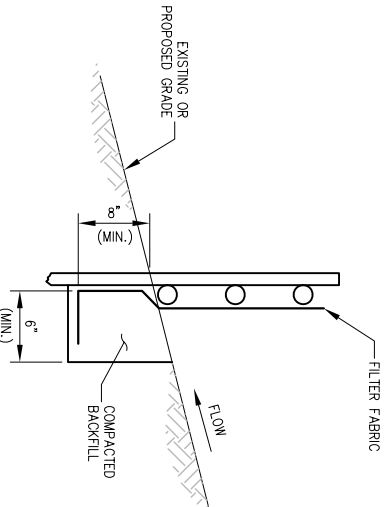
NOTE: 2 X 2 STAKES DO NOT MEET SPECIFICATION.



SILT FENCE PLACEMENT AT FLARED END SECTIONS (FES)



FABRIC ANCHOR DETAIL



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 BUILDUP DEVELOPS 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.

STORM WATER POLLUTION PREVENTION PLAN

CONSTRUCT PARALLEL TAXIWAY A, STAGE 2, PAVING
 IDA No. 3CK-3881 AIP No. 3-17-0112-B13



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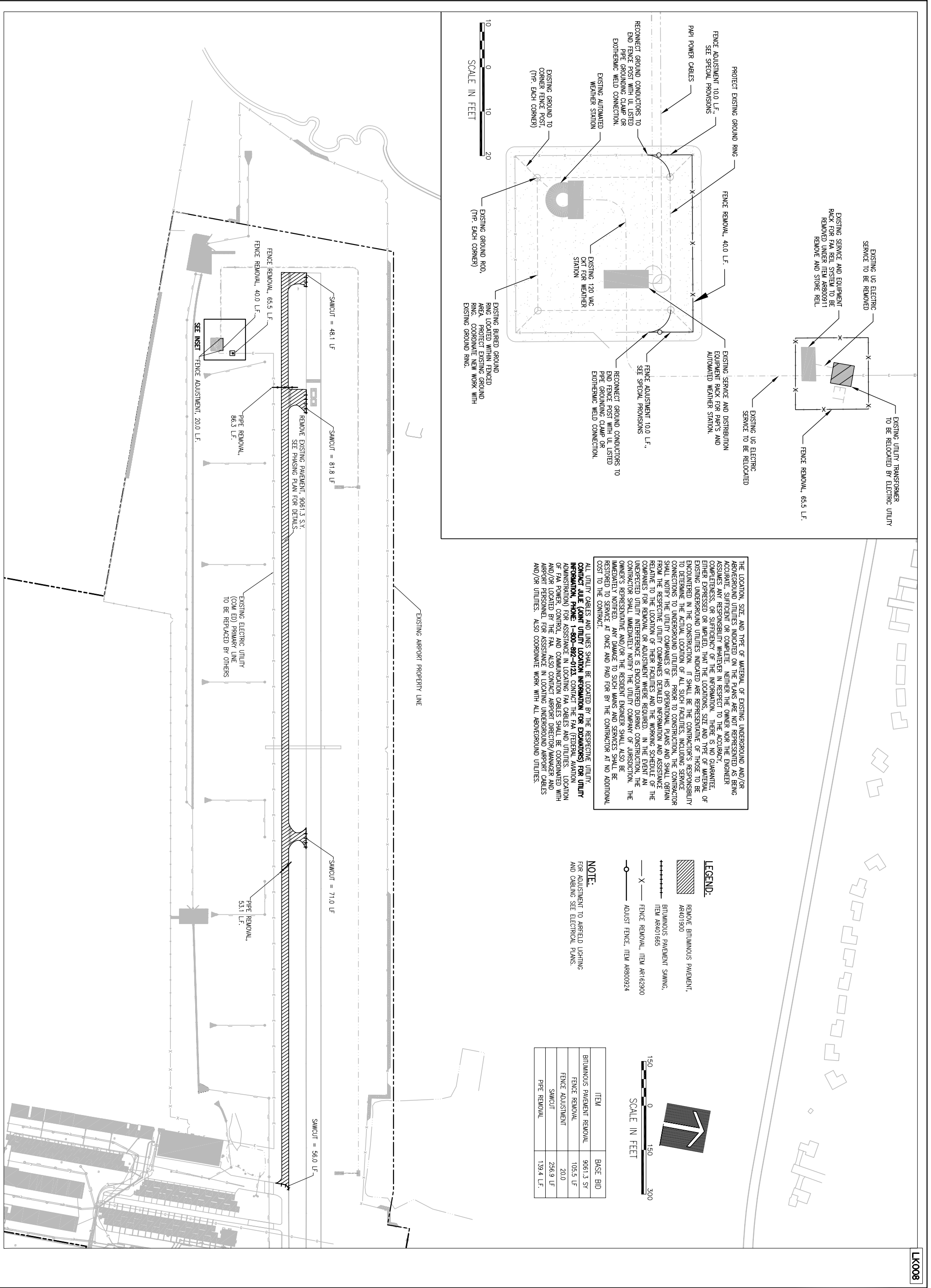
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 Scale 1"=120'
 Date APRIL 16, 2010

LAYOUT	KMS	3/19/10
DRAWN	KMS	3/19/10
REVIEWED	RMH	4/15/10



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DATE	REVISION



SCALE IN FEET
 0 10 20

SCALE IN FEET
 0 150 300

THE LOCATION, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND AND/OR ABOVEGROUND UTILITIES INDICATED ON THESE PLANS ARE NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE, WHETHER THE OWNER OR THE ENGINEER ASSUMES ANY RESPONSIBILITY WHATSOEVER IN RESPECT TO THE ACCURACY, COMPLETENESS OR SUFFICIENCY OF THE INFORMATION. THERE IS NO GUARANTEE, EITHER EXPRESSED OR IMPLIED, THAT THE LOCATIONS, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND UTILITIES INDICATED ARE REPRESENTATIVE OF THOSE TO BE ENCOUNTERED IN THE CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH UTILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES OF HIS OPERATIONAL PLANS AND ASSISTANCE FROM THE RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION AND ASSISTANCE RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULE OF THE COMPANIES FOR REMOVAL OR ADJUSTMENT WHERE REQUIRED. IN THE EVENT AN UNEXPECTED UTILITY INTERFERENCE IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY COMPANY OF JURISDICTION. THE OWNER'S REPRESENTATIVE AND/OR THE RESIDENT ENGINEER SHALL ALSO BE IMMEDIATELY NOTIFIED. ANY DAMAGE TO SUCH MAINS AND SERVICES SHALL BE RESTORED TO SERVICE AT ONCE AND PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACTOR.

NOTE:
 FOR ADJUSTMENT TO AIRFIELD LIGHTING AND CIRCUITS SEE ELECTRICAL PLANS.

LEGEND:
 REMOVE BITUMINOUS PAVEMENT, AR401900
 BITUMINOUS PARALLEL SAWING, ITEM AR401665
 FENCE REMOVAL, ITEM AR162900
 ADJUST FENCE, ITEM AR800924

ITEM	BASE BID
BITUMINOUS PAVEMENT REMOVAL	9051.3 SF
FENCE REMOVAL	105.5 LF
FENCE ADJUSTMENT	256.9 LF
SAWCUT	256.9 LF
PIPE REMOVAL	139.4 LF

LC008

DEMOLITION AND SITE PREPARATION PLAN



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Hanson No. 09A0126
 Filename 12-DEMO & PREP PLAN.DWG
 Scale 1"=50'
 Date APRIL 16, 2010

LAYOUT	LDH	7/21/09
DRAWN	LDH	7/21/09
REVIEWED	RMH	4/15/10

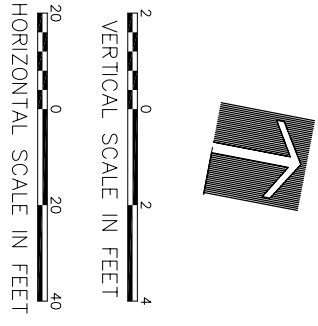
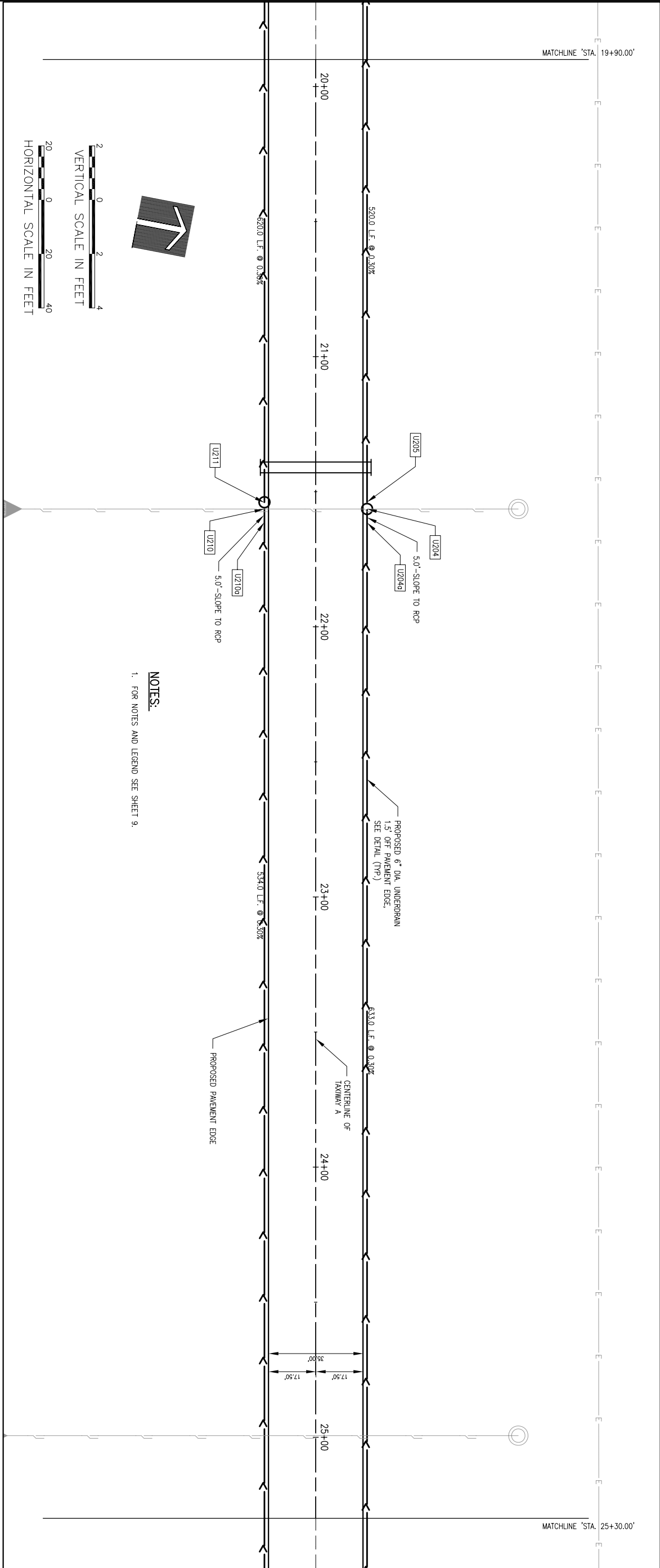


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CONSTRUCT PARALLEL TAXIWAY A, STAGE 2, PAVING
 IDA No. 3CK-3881 AIP No. 3-17-0112-B13

878	880	882	884	886	888	890
20+00	EX. 884.5	PRO. 884.51				
	EX. 884.6	PRO. 884.57				
	EX. 884.6	PRO. 884.63				
	EX. 884.7	PRO. 884.69				
	EX. 884.8	PRO. 884.75				
21+00	EX. 884.8	PRO. 884.81				
	EX. 884.9	PRO. 884.87				
	EX. 884.9	PRO. 884.93				
	EX. 885.0	PRO. 884.99				
	EX. 885.1	PRO. 885.05				
22+00	EX. 885.1	PRO. 885.11				
	EX. 885.2	PRO. 885.17				
	EX. 885.2	PRO. 885.23				
	EX. 885.3	PRO. 885.29				
	EX. 885.3	PRO. 885.35				
23+00	EX. 885.4	PRO. 885.41				
	EX. 885.5	PRO. 885.47				
	EX. 885.5	PRO. 885.53				
	EX. 885.6	PRO. 885.59				
	EX. 885.6	PRO. 885.65				
24+00	EX. 885.7	PRO. 885.71				
	EX. 885.8	PRO. 885.77				
	EX. 885.8	PRO. 885.82				
	EX. 885.9	PRO. 885.88				
	EX. 885.9	PRO. 885.94				
25+00	EX. 886.0	PRO. 886.00				
	EX. 885.7	PRO. 886.06				
878	880	882	884	886	888	890



NOTES:
 1. FOR NOTES AND LEGEND SEE SHEET 9.

PLAN AND PROFILE TAXIWAY A

CONSTRUCT PARALLEL TAXIWAY A, STAGE 2, PAVING
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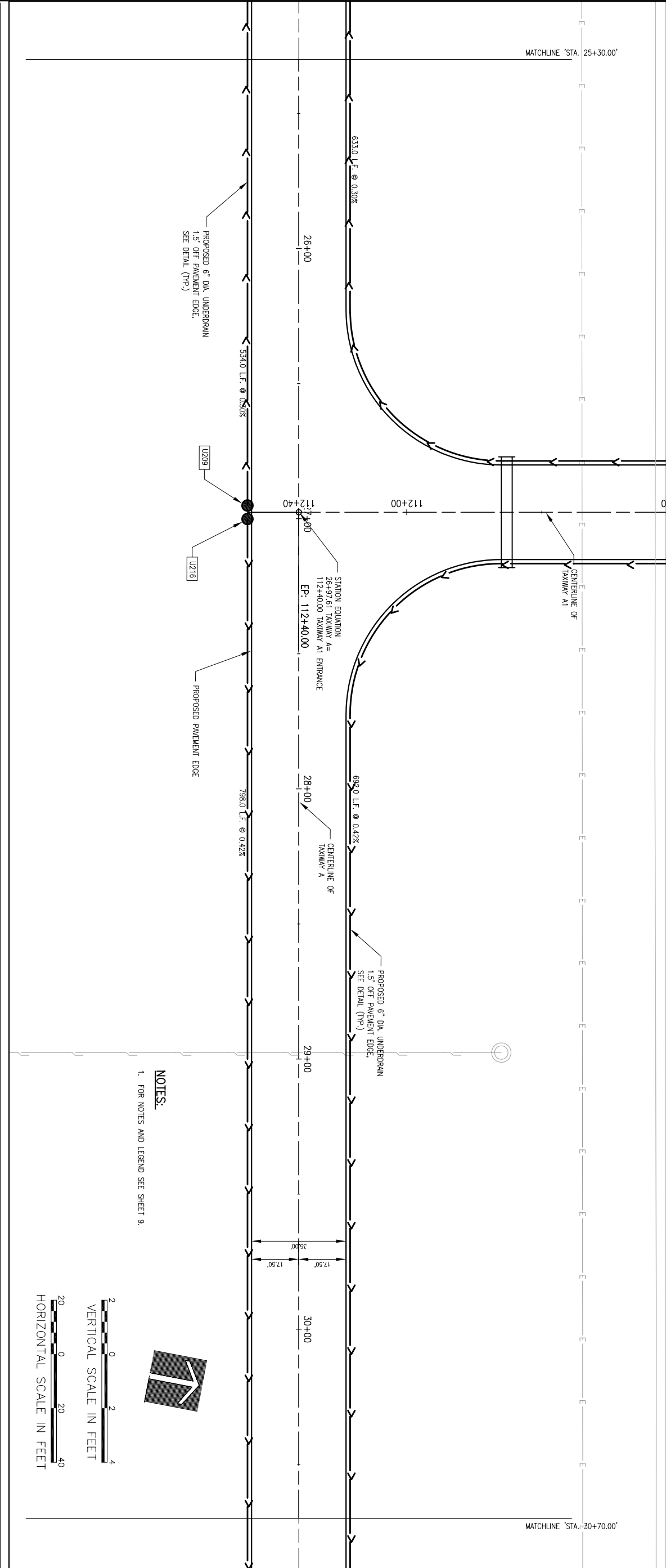
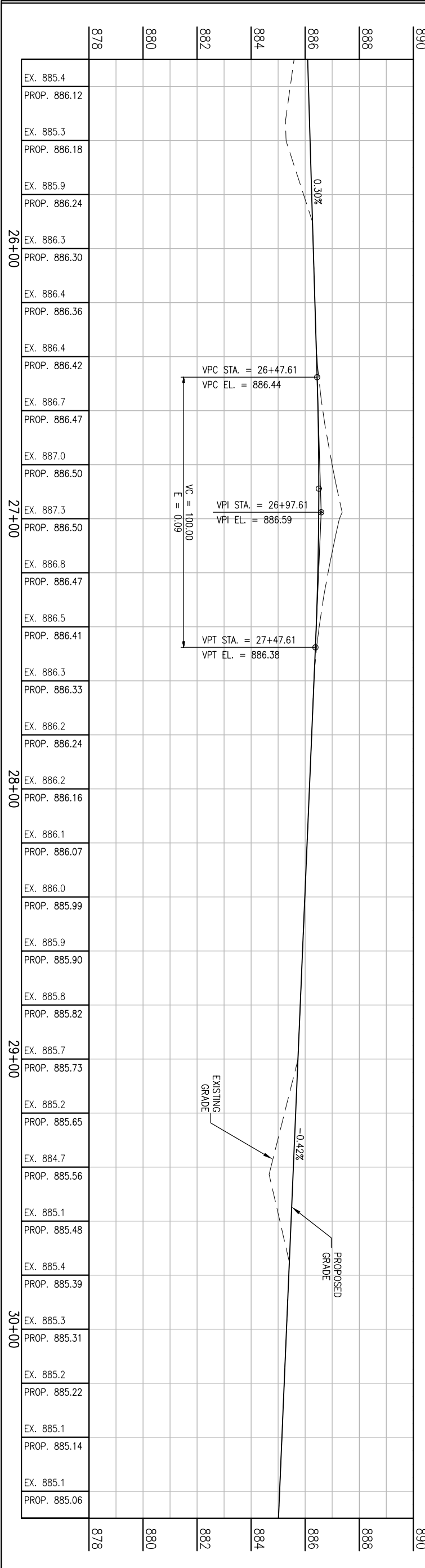
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Date	APRIL 16, 2010

LAYOUT	LDH	12/30/09
DRAWN	SJM	03/17/10
REVIEWED	RMH	4/15/10

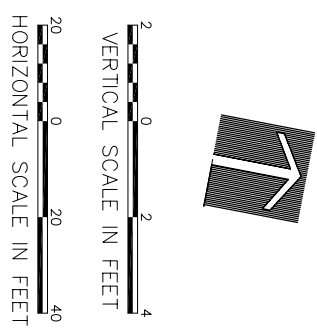


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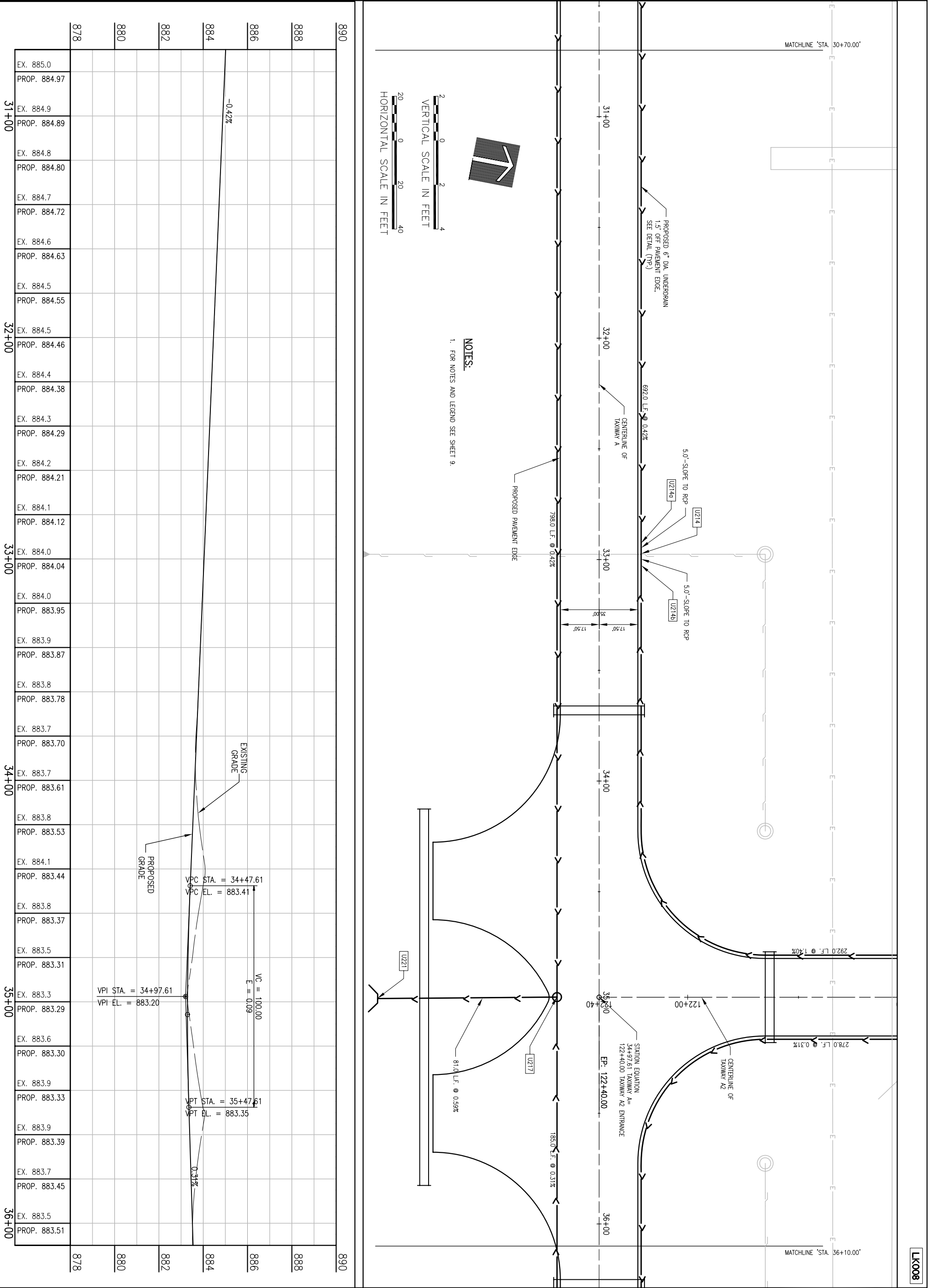


NOTES:
 1. FOR NOTES AND LEGEND SEE SHEET 9.



<p style="writing-mode: vertical-rl; transform: rotate(180deg);">15 of 55 sheets</p>	<p>PLAN AND PROFILE TAXIWAY A</p>	<p>HANSON Copyright Hanson Professional Services Inc. 2010</p>	<p>Hanson No. 09A0126 Filename 15-PLAN & PROFILE Scale 1"=20' Date APRIL 16, 2010</p>	<p>VILLAGE OF LAKE IN THE HILLS 600 Harvest Gate Lake in the Hills, Illinois 60156 Telephone: 847.960.7410 Fax: 847.960.7515</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">DATE</th> <th style="width: 50%;">REVISION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>	DATE	REVISION																		
	DATE		REVISION																						
<p>CONSTRUCT PARALLEL TAXIWAY A, STAGE 2, PAVING IDA No. 3CK-3881 AIP No. 3-17-0112-B13</p>	<p>Hanson Professional Services Inc. 815 Commerce Drive Suite 200 Oak Brook, Illinois 60523</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>LAYOUT</td> <td>LDH</td> <td>12/30/09</td> </tr> <tr> <td>DRAWN</td> <td>SJM</td> <td>03/17/10</td> </tr> <tr> <td>REVIEWED</td> <td>RMH</td> <td>4/15/10</td> </tr> </table>	LAYOUT	LDH	12/30/09	DRAWN	SJM	03/17/10	REVIEWED	RMH	4/15/10														
LAYOUT	LDH	12/30/09																							
DRAWN	SJM	03/17/10																							
REVIEWED	RMH	4/15/10																							
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PLAN AND PROFILE TAXIWAY A

CONSTRUCT PARALLEL TAXIWAY A, STAGE 2, PAVING
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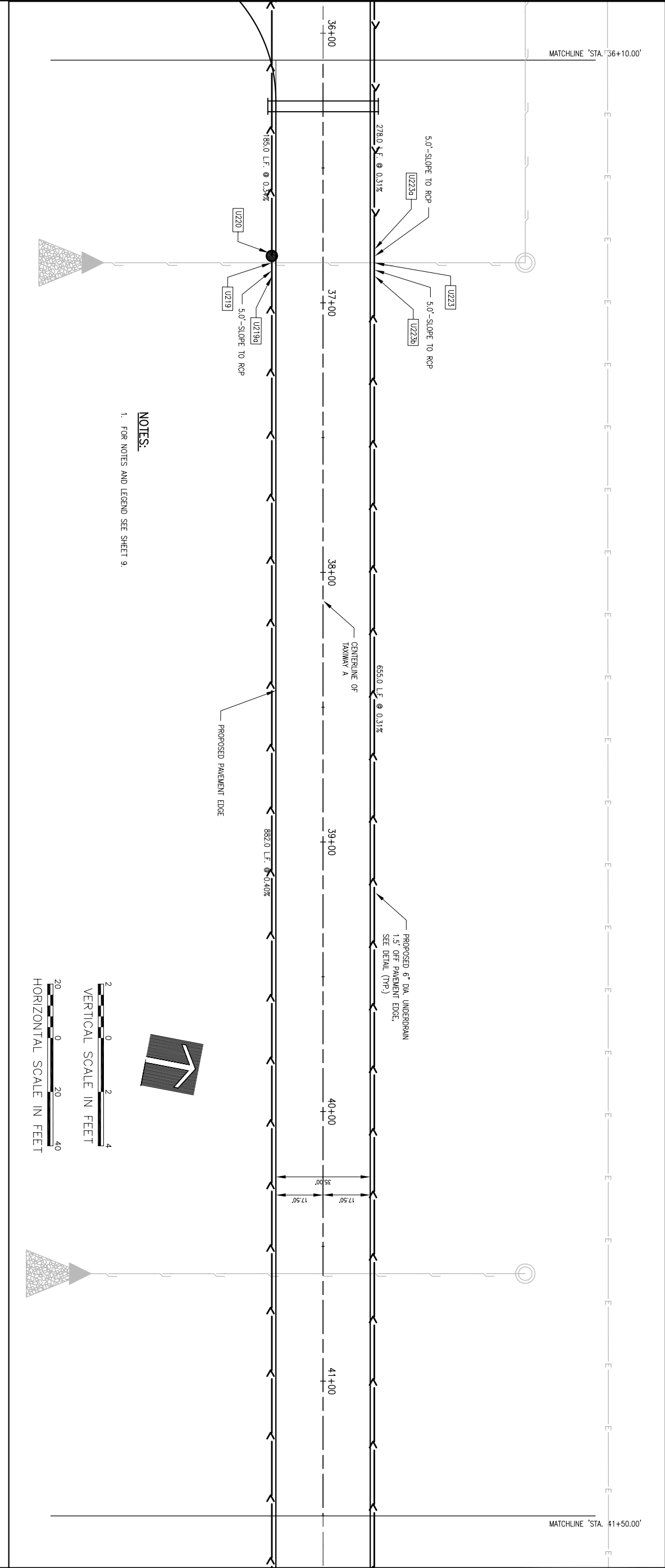
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Filename	16-PLAN & PROFILE	
Scale	1"=20'	
Date	APRIL 16, 2010	
LAYOUT	LDH	12/30/09
DRAWN	SJM	03/17/10
REVIEWED	RMH	4/15/10



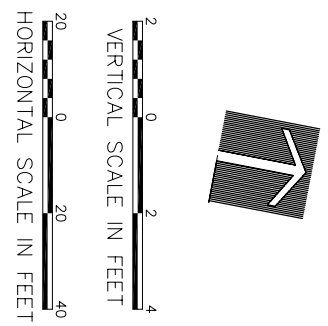
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878	EX. 883.6	PROP. 883.57	
880	EX. 883.4	PROP. 883.63	
882	EX. 883.2	PROP. 883.70	
884	EX. 882.9	PROP. 883.76	
886	EX. 883.8	PROP. 883.82	
888	EX. 883.9	PROP. 883.88	
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37+00	EX. 884.1	PROP. 884.12	
38+00	EX. 884.2	PROP. 884.18	
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	EX. 884.7	PROP. 884.67	
40+00	EX. 884.7	PROP. 884.73	
	EX. 884.8	PROP. 884.79	
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41+00	EX. 885.0	PROP. 885.04	
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	EX. 885.2	PROP. 885.16	
878			878



NOTES:
 1. FOR NOTES AND LEGEND SEE SHEET 9.



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PLAN AND PROFILE TAXIWAY A

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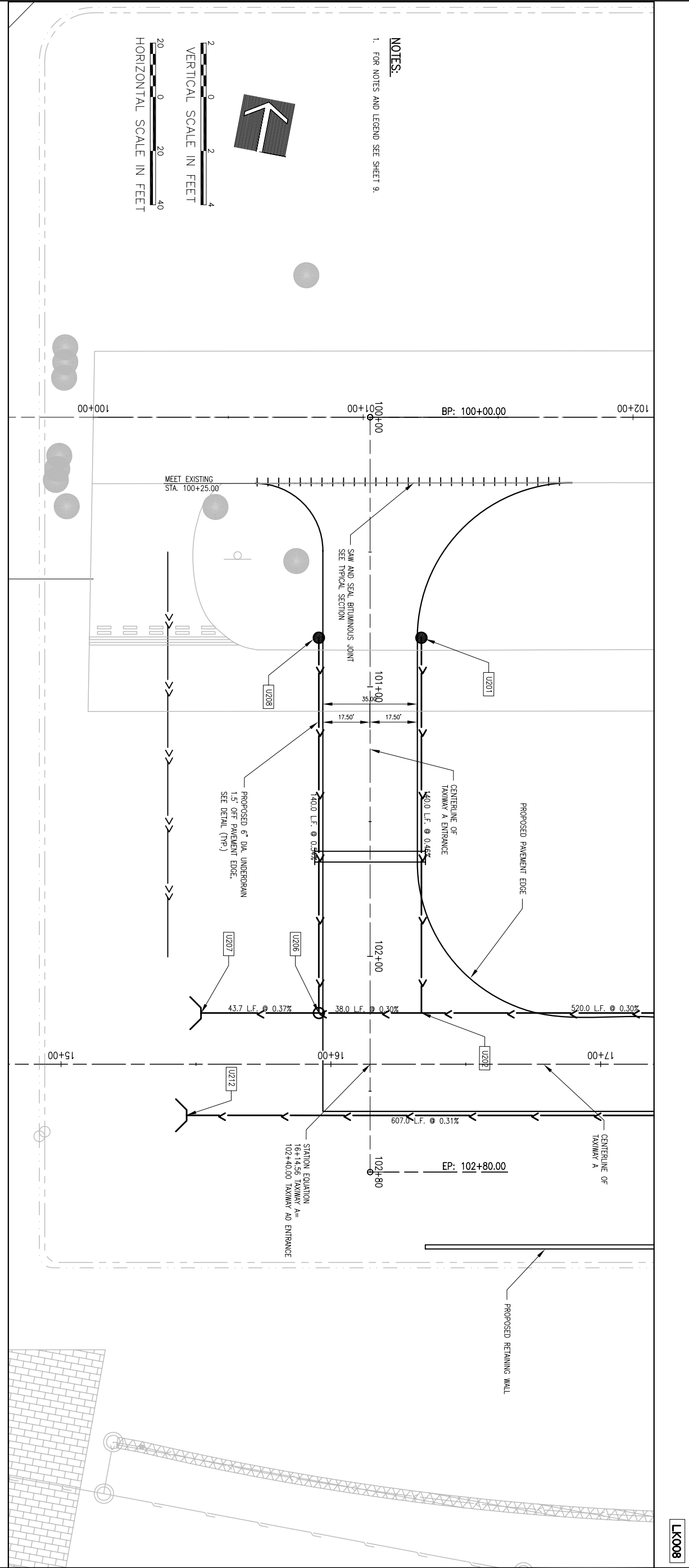
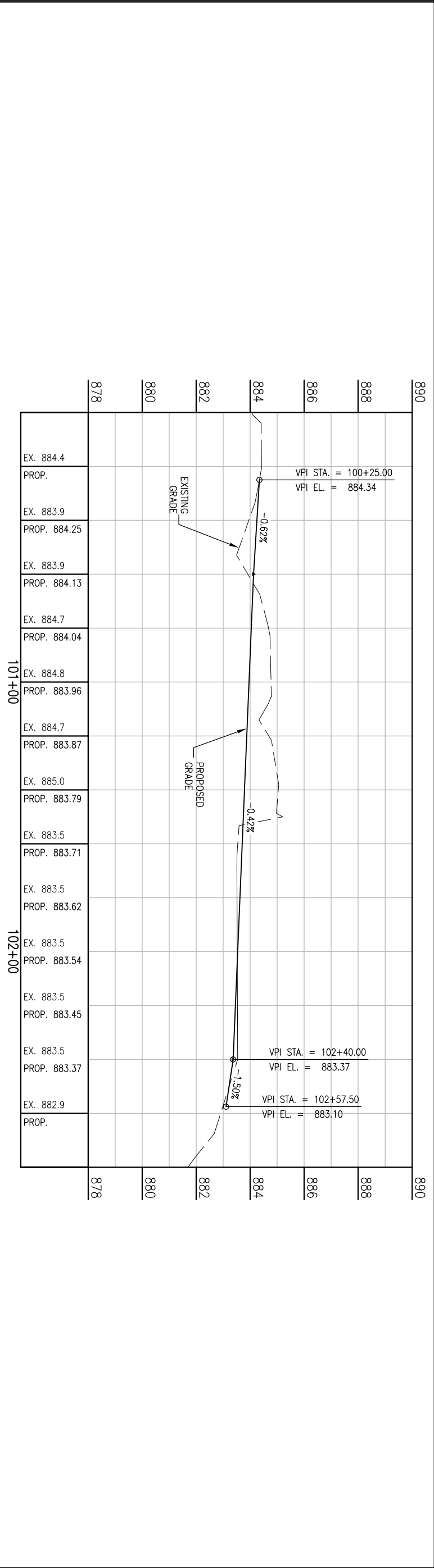
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Filename	17-PLAN & PROFILE
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LAYOUT	LDH 12/30/09
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NOTES:
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VERTICAL SCALE IN FEET
 HORIZONTAL SCALE IN FEET

19 of 55 sheets

19

PLAN AND PROFILE
 TAXIWAY A ENTRANCE

CONSTRUCT PARALLEL TAXIWAY A,
 STAGE 2, PAVING
 IDA No. 3CK-3881 AIP No. 3-17-0112-B13

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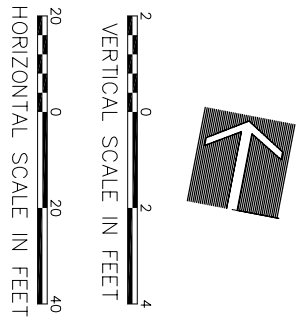
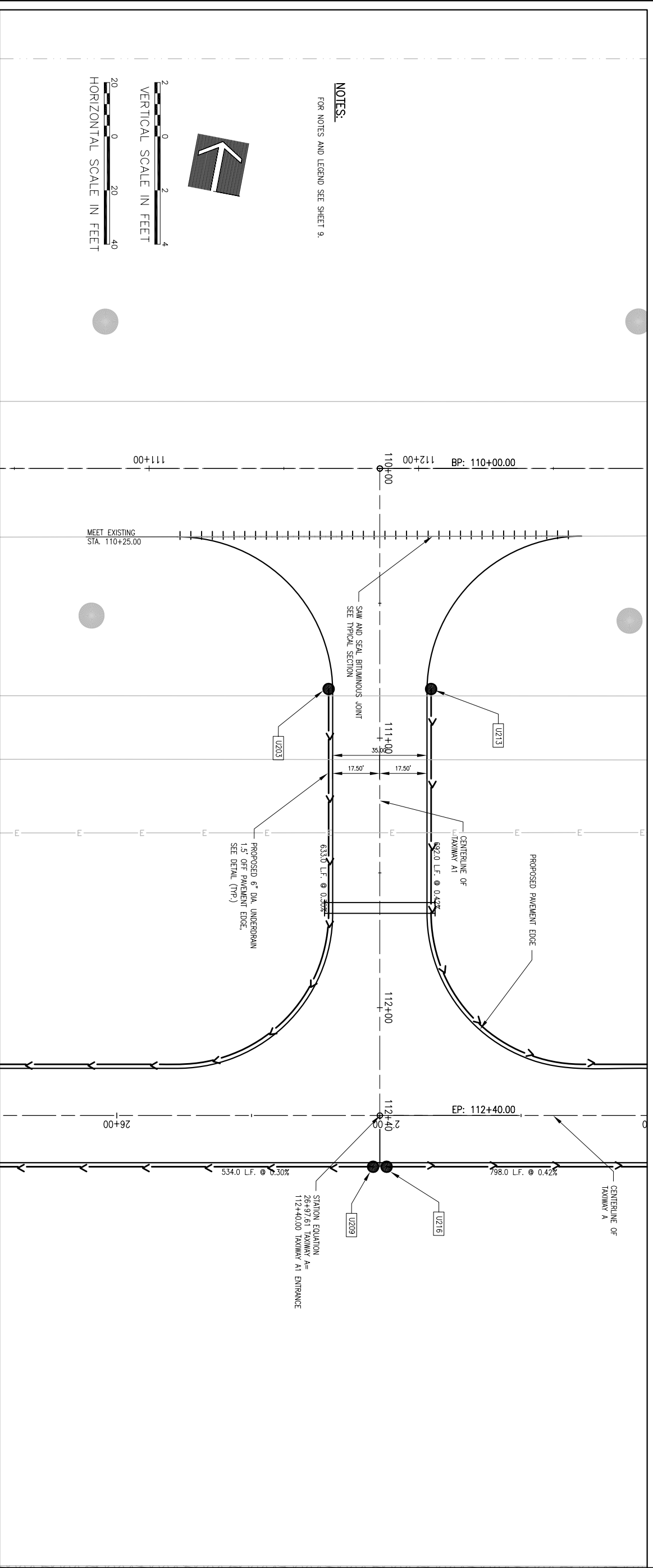
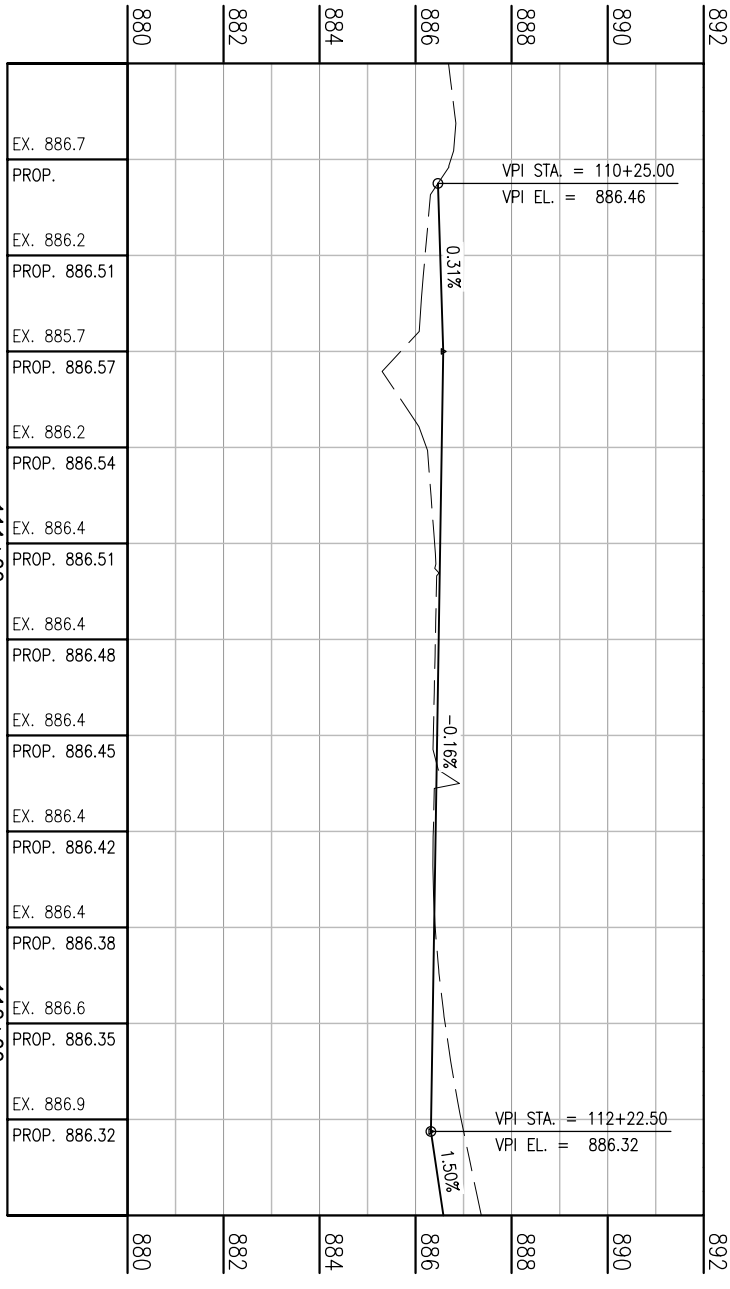
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DRAWN	SJM	03/17/10
REVIEWED	RMH	4/15/10

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111+00
 112+00

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**PLAN AND PROFILE
 TAXIWAY A1**



Hanson No. 09A0126
 Filename 20-PLAN & PROFILE
 Scale 1"=20'
 Date APRIL 16, 2010



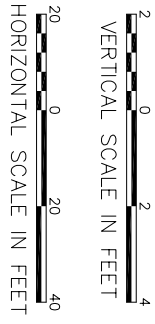
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 STAGE 2, PAVING**
 IDA No. 3CK-3881 AIP No. 3-17-0112-B13

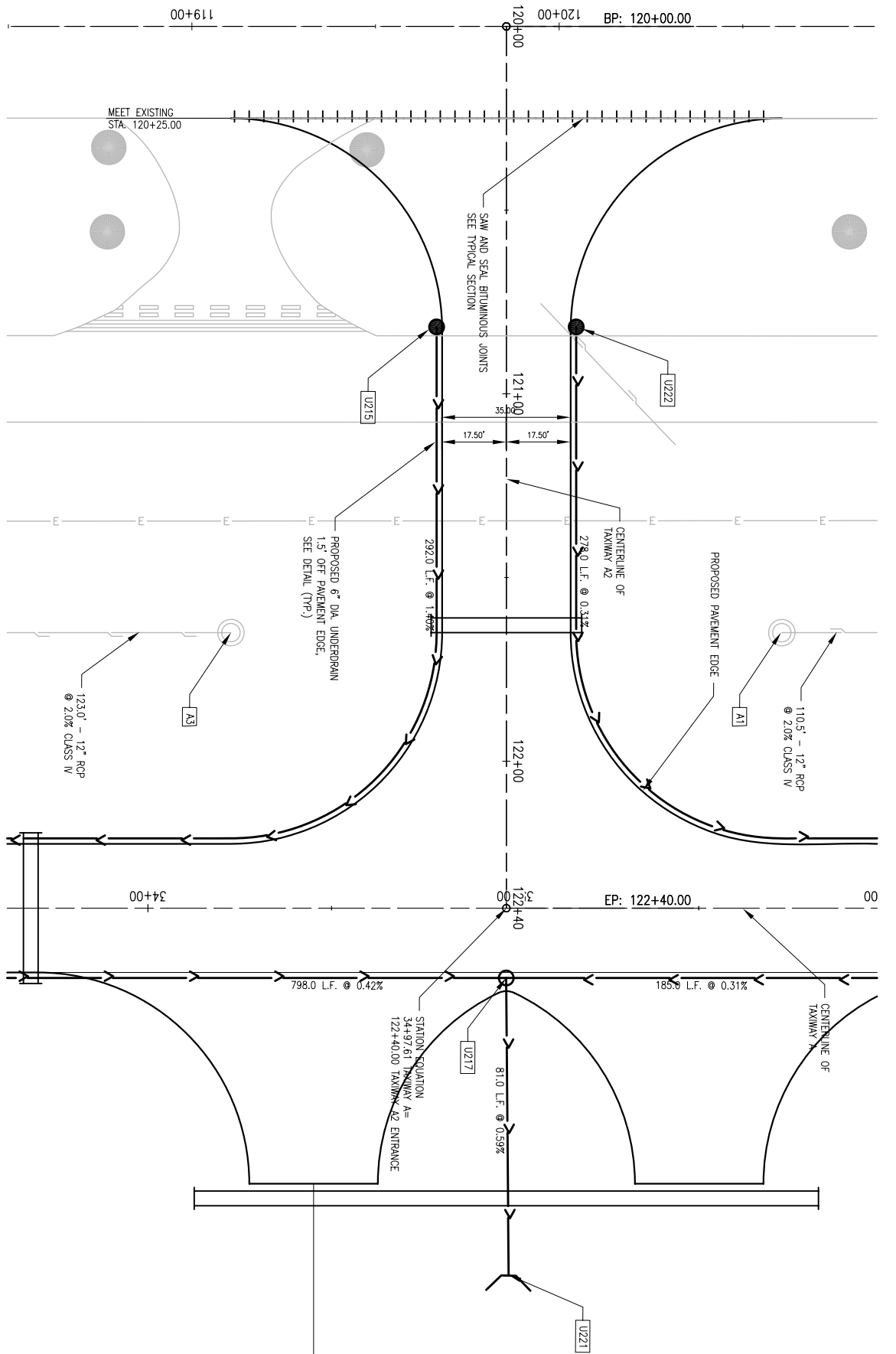
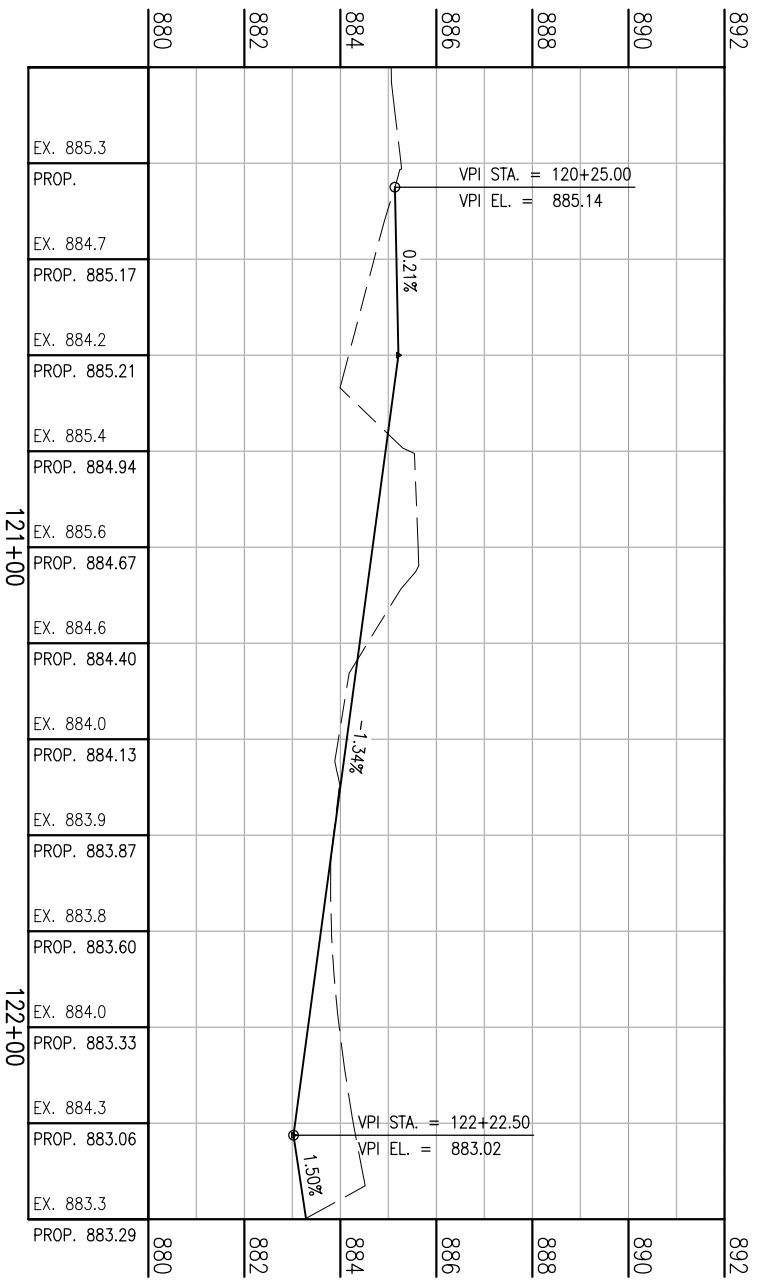
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LAYOUT	LDH	12/30/09
DRAWN	SJM	03/17/10
REVIEWED	RMH	4/15/10



NOTES:

FOR NOTES AND LEGEND SEE SHEET 9.



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**PLAN AND PROFILE
 TAXIWAY A2**

**CONSTRUCT PARALLEL TAXIWAY A,
 STAGE 2, PAVING**
 IDA No. 3CK-3881 AIP No. 3-17-0112-B13



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Hanson No. 09A0126
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 Date APRIL 16, 2010

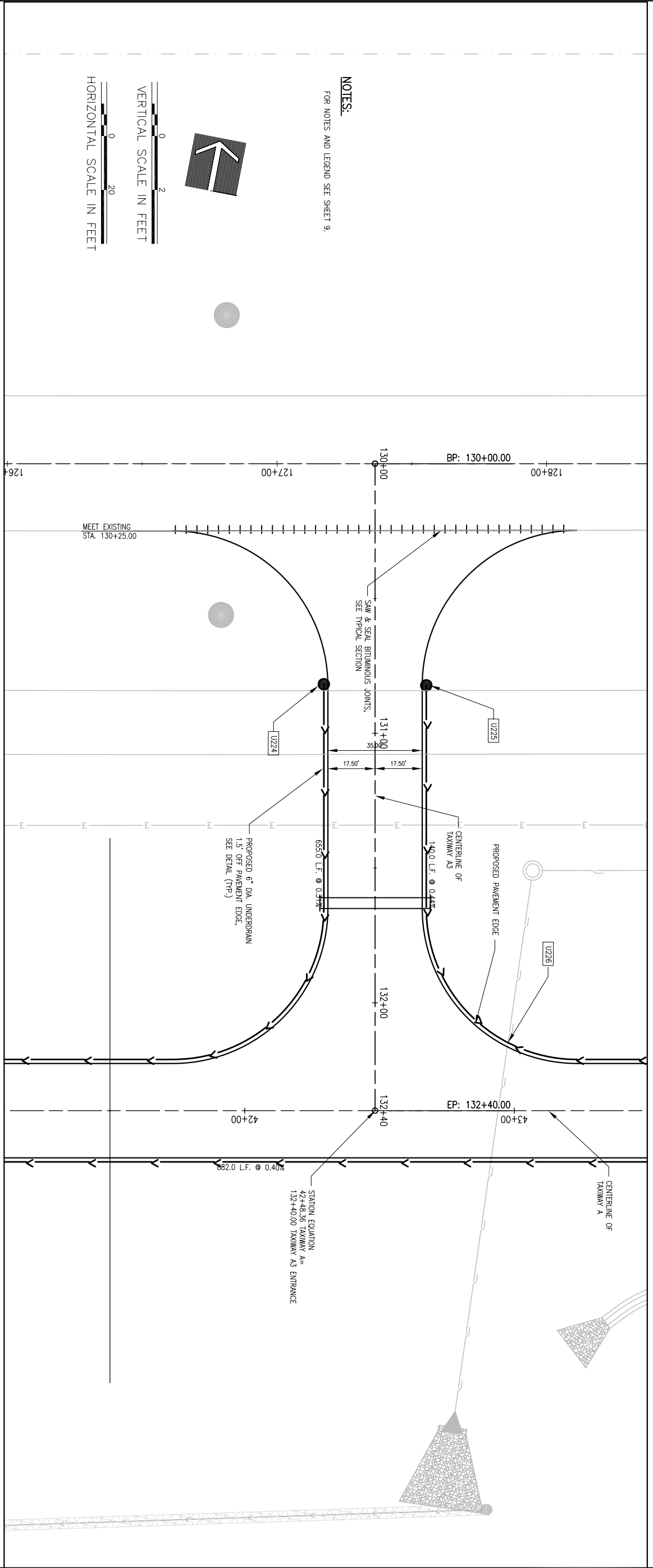
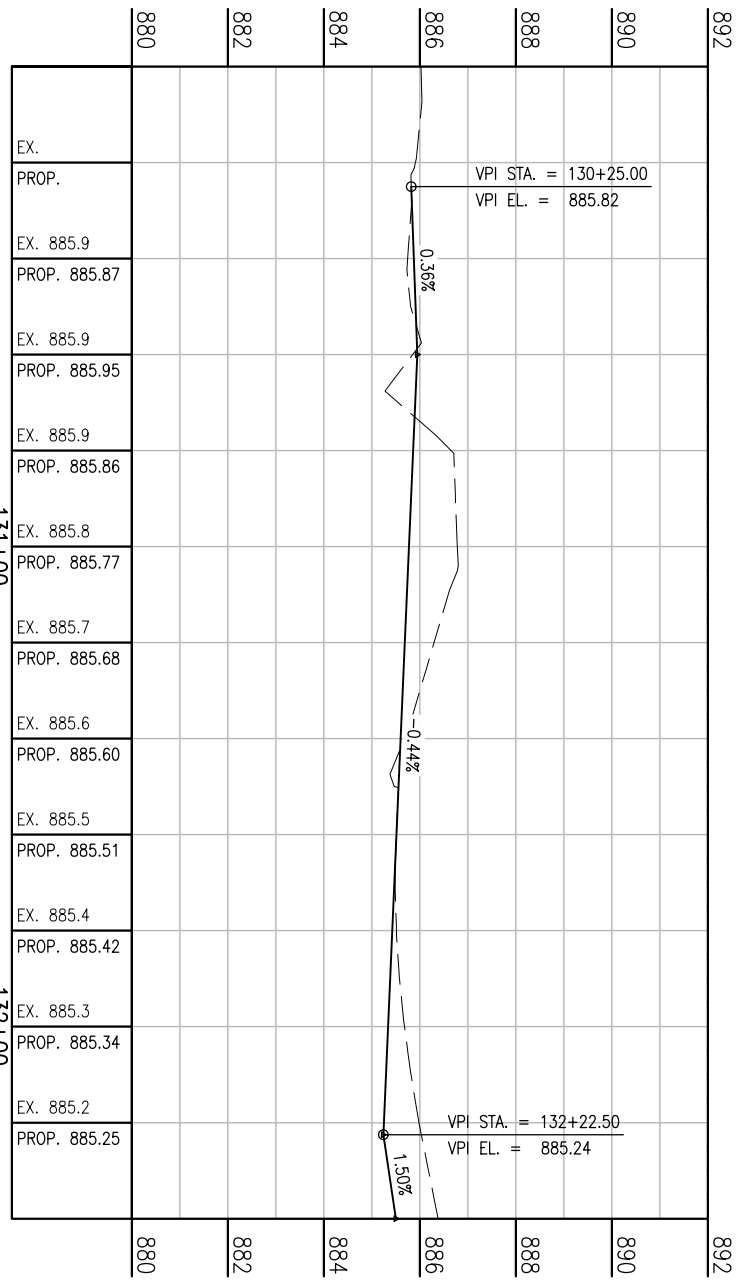
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DRAWN	SJM	03/17/10
REVIEWED	RMH	4/15/10



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VERTICAL SCALE IN FEET
 HORIZONTAL SCALE IN FEET

131+00
 132+00

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PLAN AND PROFILE
 TAXIWAY A3



Hanson No. 09A0126
 Filename 22-PLAN & PROFILE
 Scale 1"=20'
 Date APRIL 16, 2010



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CONSTRUCT PARALLEL TAXIWAY A,
 STAGE 2, PAVING
 IDA No. 3CK-3881 AIP No. 3-17-0112-B13

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LAYOUT	LDH	12/30/09
DRAWN	SJM	03/17/10
REVIEWED	RMH	4/15/10

UNDERDRAIN SCHEDULE

Structure	Station	Offset	Type	Rim E.	Invert E.	Pay Length	Slope %
U201	100+81.79	19.00 LT	Clean Out	883.87	881.37	140.0	0.46
U202	102+21.00	19.00 LT	Tee Connection	--	880.73		
U203	110+81.79	19.00 RT	Clean Out	886.37	883.87	633.0	0.30
U204a	21+61.39	19.00 LT	Slope Break	--	881.97	5.0	184.00
U204	21+66.39	19.00 LT	RCP Connection	884.79	872.77		
U205	21+66.39	19.00 LT	Clean Out	884.96	882.29	520.0	0.30
U202	102+21.00	19.00 LT	Tee Connection	--	880.73	38.0	0.30
U206	102+21.00	19.00 RT	Tee Connection	--	880.62	43.7	0.37
U207	102+21.00	73.10 RT	Outlet	--	880.46		
U208	100+81.79	19.00 RT	Clean Out	883.37	881.37	140.0	0.54
U206	102+21.00	19.00 RT	Tee Connection	--	880.62		
U209	26+95.11	19.00 RT	Clean Out	886.33	883.83	534.0	0.30
U210a	21+61.39	19.00 RT	Slope Break	--	882.23	5.0	201.40
U210	21+66.39	19.00 RT	RCP Connection	--	872.16		
U211	21+66.39	19.00 RT	Clean Out	884.79	882.29	607.0	0.31
U212	102+21.00	83.00 RT	Outlet	--	880.43		
U213	110+81.79	19.00 LT	Clean Out	886.37	883.87	692.0	0.42
U214a	32+92.61	19.00 LT	Slope Break	--	880.96	5.0	145.60
U214	32+97.61	19.00 LT	RCP Connection	--	873.68	5.0	89.20
U214b	33+02.61	19.00 RT	Slope Break	--	878.14	292.0	1.40
U215	120+81.79	19.00 RT	Clean Out	884.73	882.23		

Structure	Station	Offset	Type	Rim E.	Invert E.	Pay Length	Slope %
U216	27+00.11	19.00 RT	Clean Out	886.33	883.83	798.0	0.42
U217	34+97.57	19.00 RT	Tee Connection	--	880.48	185.0	0.34
U220	36+85.11	19.00 RT	Clean Out	883.61	881.11		
U218	45+55.21	56.03 RT	Clean Out	886.53	884.03	882.0	0.40
U219a	36+90.11	19.00 RT	Slope Break	--	880.50	5.0	59.00
U219	36+85.11	19.00 RT	RCP Connection	--	877.55		
U217	45+55.21	19.00 RT	Tee Connection	--	880.48	81.0	0.59
U221	34+97.57	100.00 RT	Outlet	--	880.00		
U222	120+81.79	19.00 LT	Clean Out	884.73	882.23	278.0	0.31
U223a	36+80.11	19.00 LT	Slope Break	--	881.37	5.0	85.60
U223	36+85.11	19.00 LT	RCP Connection	--	877.09	5.0	81.20
U223b	36+90.11	19.00 LT	Slope Break	--	881.15	655.0	0.31
U224	130+81.79	19.00 RT	Clean Out	885.68	883.18		
U225	130+81.79	19.00 LT	Clean Out	885.68	883.18	140.0	0.44
U226a	42+93.07	28.31 LT	Slope Break	--	882.56	5.0	210.00
U226	42+98.09	25.02 LT	RCP Connection	--	872.06	5.0	233.60
U226b	43+02.45	23.05 LT	Slope Break	--	883.74	314.0	0.40
U227	45+86.76	72.25 LT	Clean Out	887.50	885.00		

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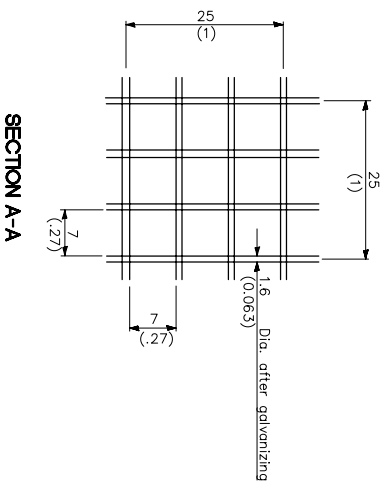
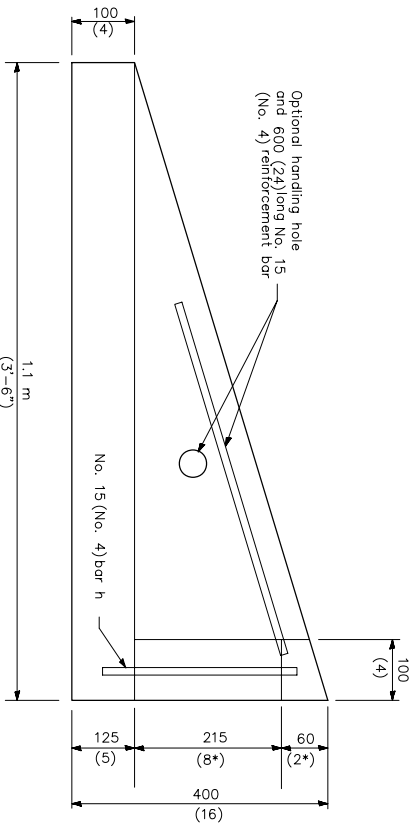
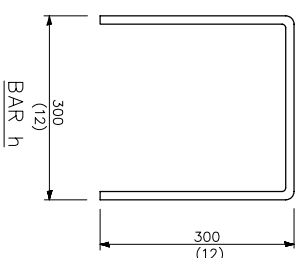
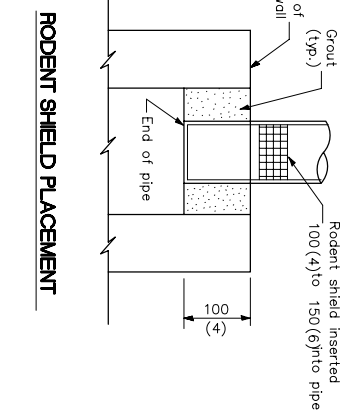
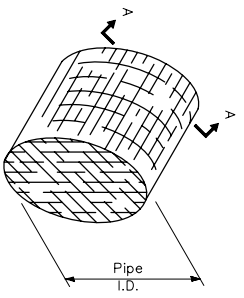
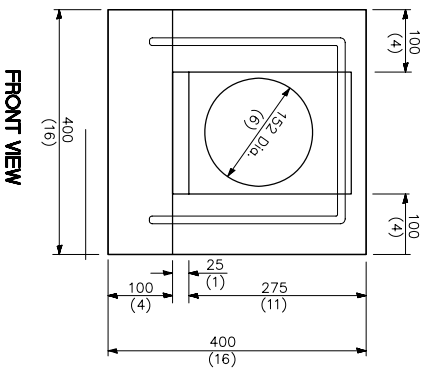
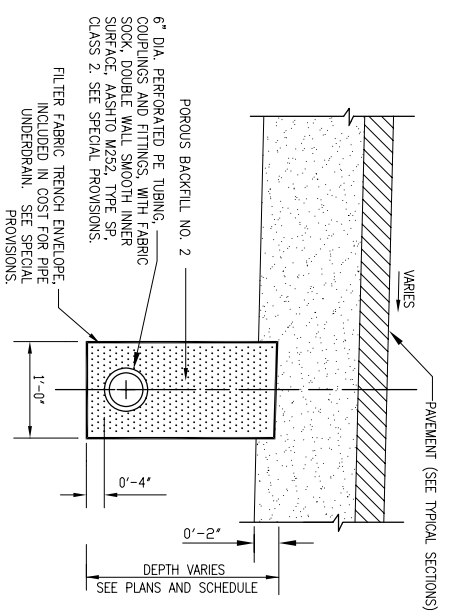
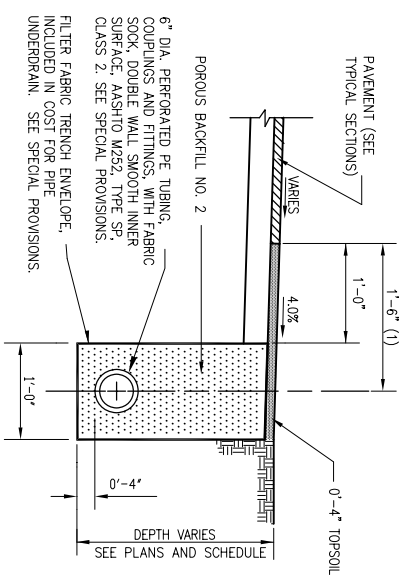
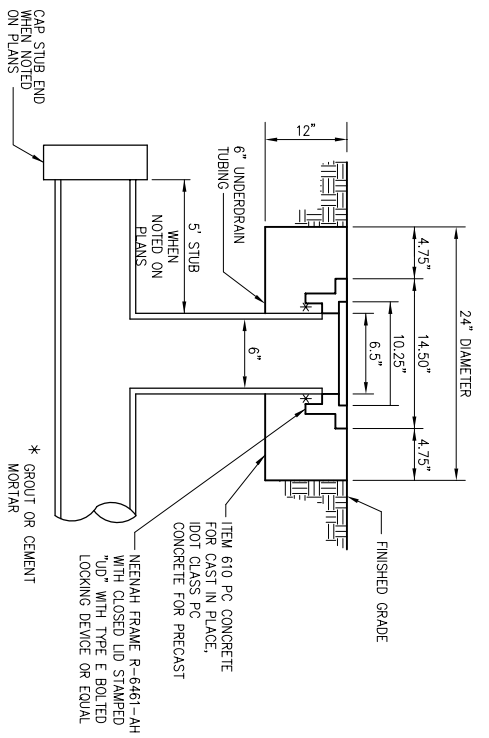
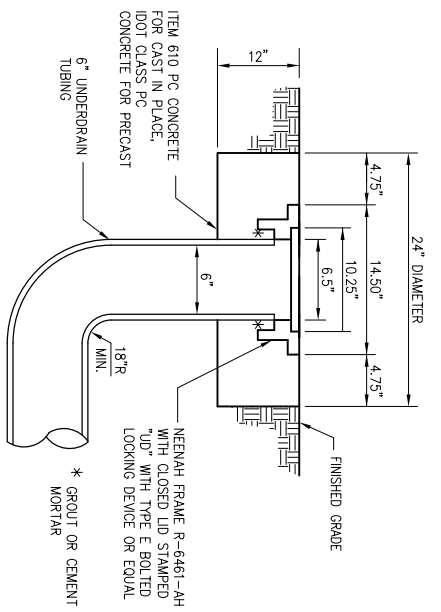


Hanson No. 09A0126
 Filename 23-UNDERDRAIN SCHEDULE
 Scale N/A
 Date APRIL 16, 2010

LAYOUT	LDH	12/11/09
DRAWN	SJM	3/05/10
REVIEWED	RMH	4/15/10

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UNDERDRAIN SCHEDULE
CONSTRUCT PARALLEL TAXIWAY A, STAGE 2, PAVING
 IDA No. 3CK-3881 AIP No. 3-17-0112-B13

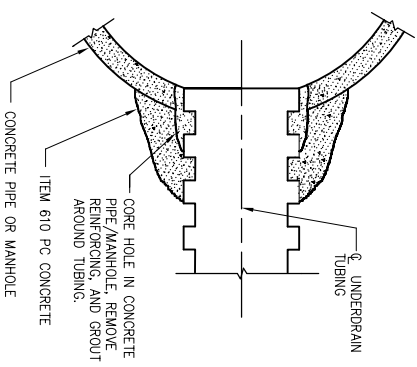


- NOTES**
1. HEADWALL CONSTRUCTION SHALL MEET DOT STANDARD 601101 WITH OPENING MODIFIED TO ACCEPT 6 INCH I.D. PERFORATED UNDERDRAIN PIPE.
 2. PRECAST CONCRETE SHALL BE IDOT CLASS PC MIX.
 3. RODENT SHIELD SHALL BE FURNISHED INCIDENTAL TO HEADWALL.
 4. DRAIN PIPE SHALL BE GROUTED AND SEALED TO THE HEADWALL OPENING WITH CEMENT MORTAR.
 5. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.

UNDERDRAIN END SECTION

(ITEM 705620)

STORM SEWER CONCRETE COLLAR AND GROUT CONNECTION



DETAILS SHOWN ARE NOT TO SCALE

LK008

DATE	REVISION

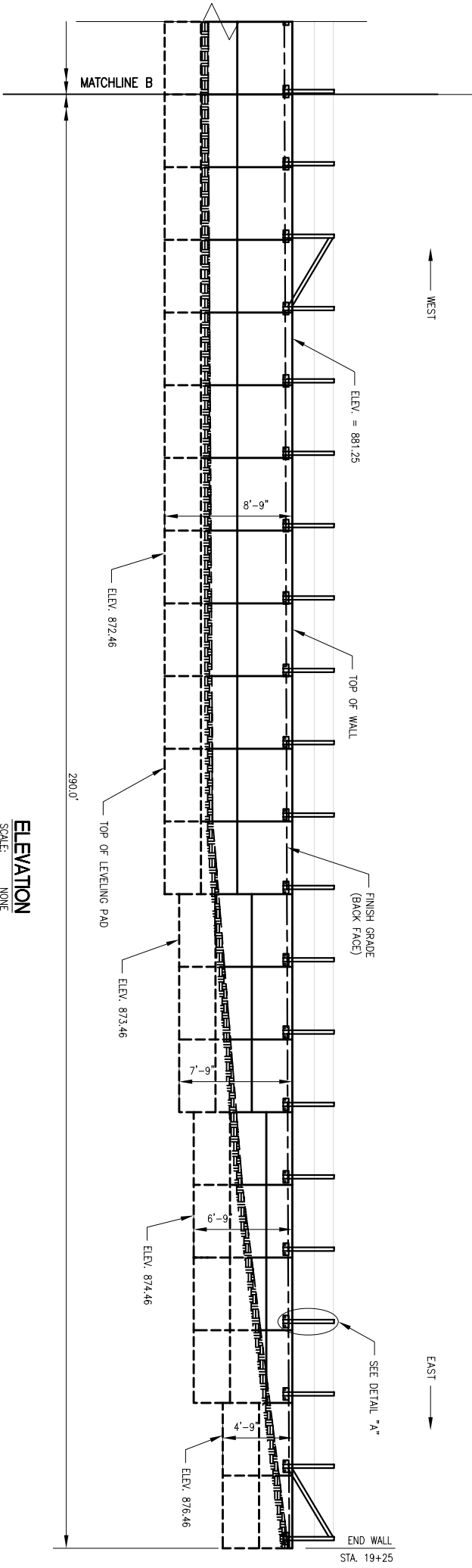
VILLAGE OF LAKE IN THE HILLS
 600 Harvest Gate
 Lake in the Hills, Illinois 60156 Telephone:
 847.960.7410
 Fax: 847.960.7515



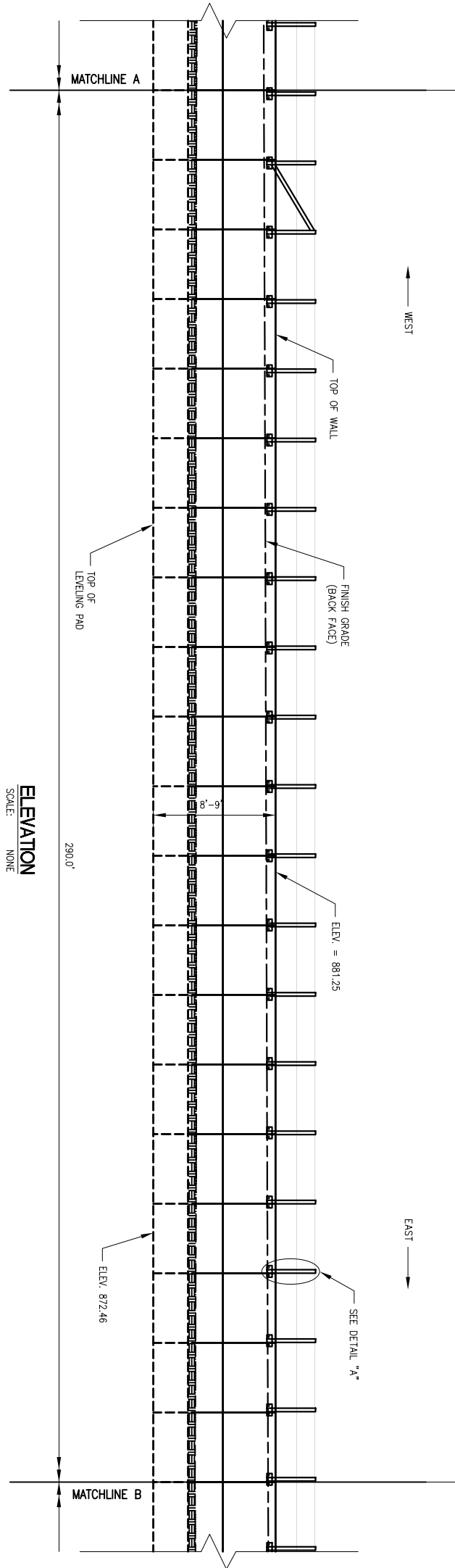
Hanson No.	09A0126	
Filename	24-UNDERDRAIN DETAILS.DWG	
Scale		
Date	APRIL 16, 2010	
LAYOUT	LDH	3/05/10
DRAWN	SJM	3/05/10
REVIEWED	RMH	4/15/10

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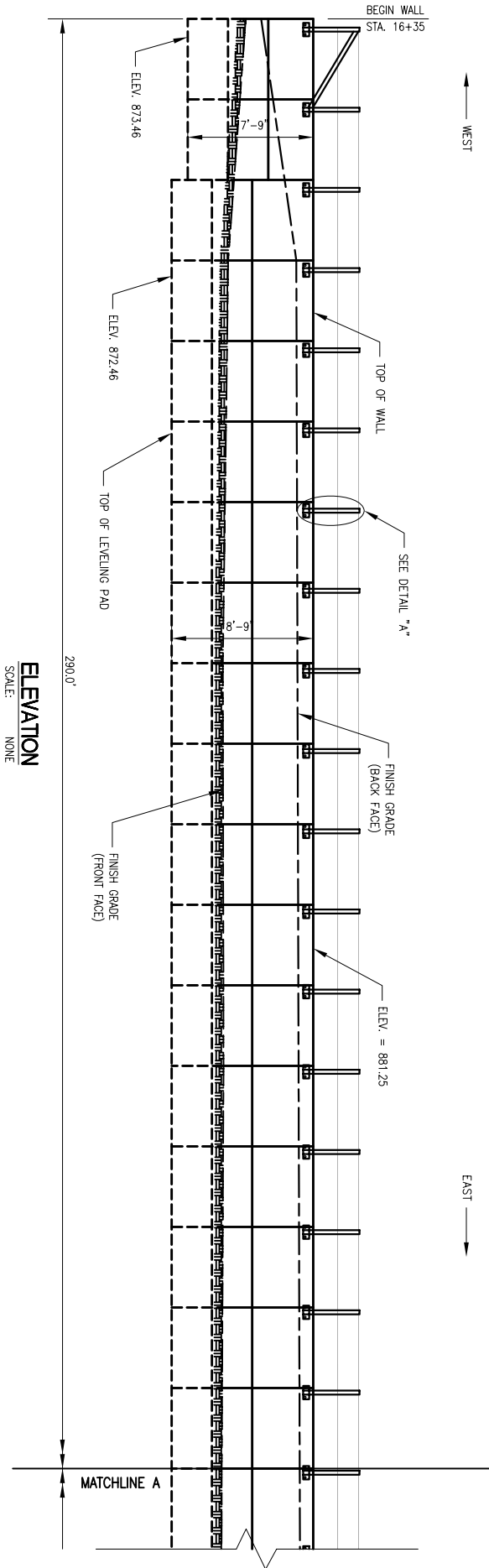
UNDERDRAIN DETAILS
CONSTRUCT PARALLEL TAXIWAY A, STAGE 2, PAVING
 IDA No. 3CK-3881 AIP No. 3-17-0112-B13



ELEVATION
 SCALE: NONE



ELEVATION
 SCALE: NONE



ELEVATION
 SCALE: NONE

NOTE:
 FOR STATIONING, REFERENCE SHEET 6.
 WORK WITH SHEET 26.

LK008

**RETAINING WALL
 ELEVATION**

**CONSTRUCT PARALLEL TAXIWAY A,
 STAGE 2, PAVING**
 IDA No. 3CK-3881 AIP No. 3-17-0112-B13



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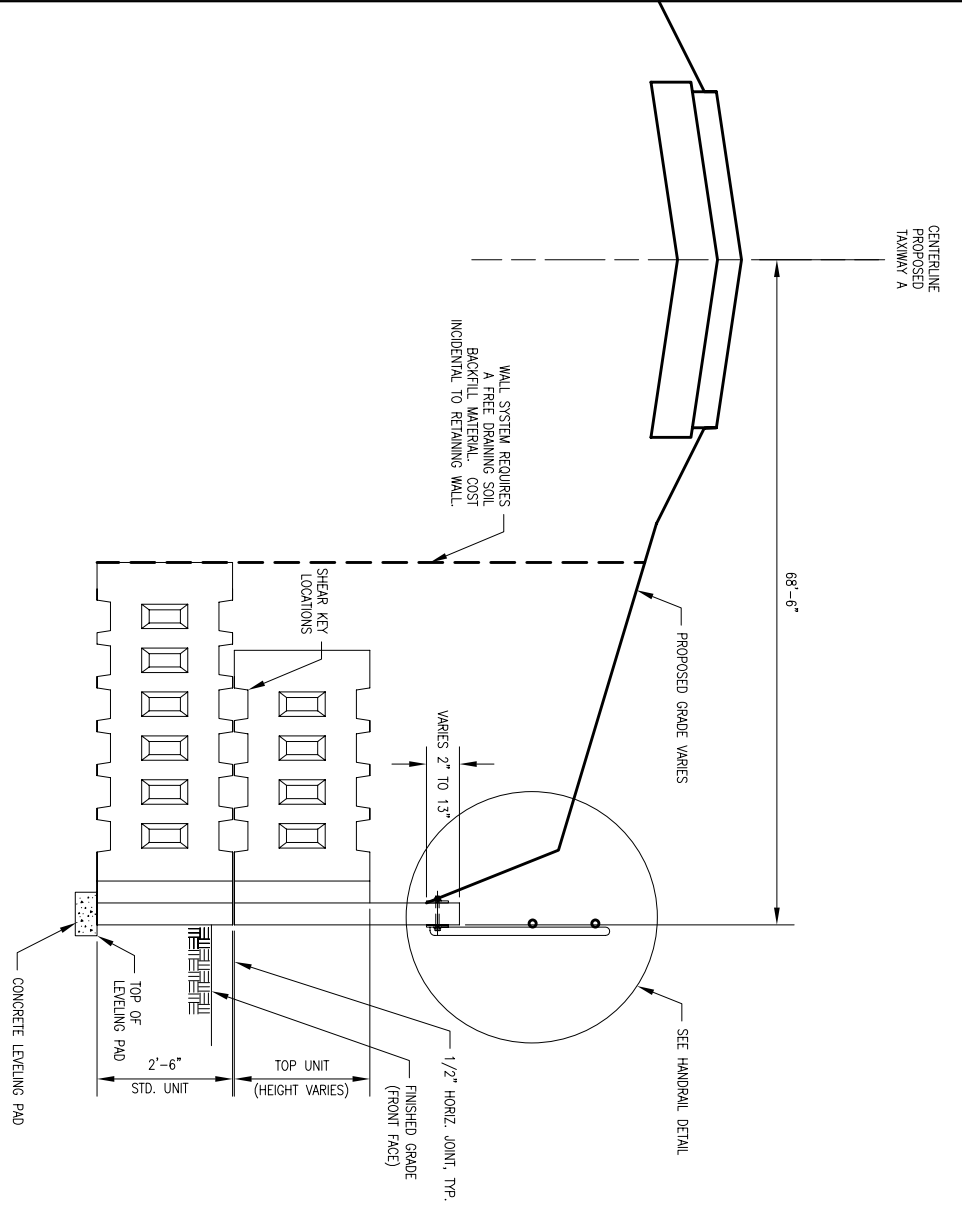
Hanson No. 09A0126
 Filename 25-RETAINING WALL ELEV.DWG
 Scale
 Date APRIL 16, 2010

LAYOUT	LDH	4/13/10
DRAWN	LDH	3/05/10
REVIEWED	RMH	4/15/10

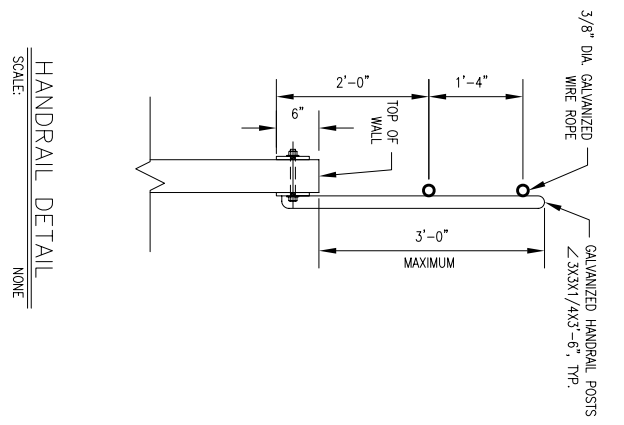


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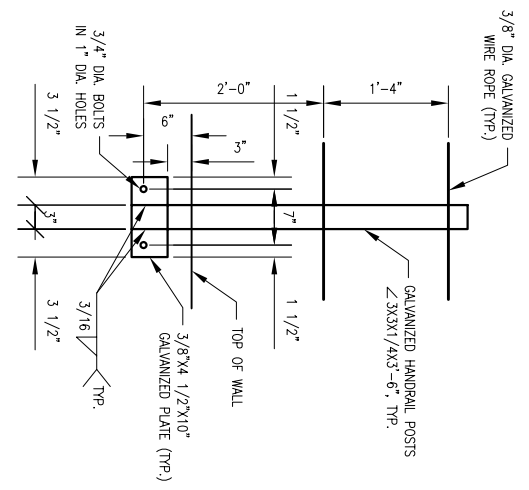
DATE	REVISION



TYPICAL SECTION
 SCALE: NONE



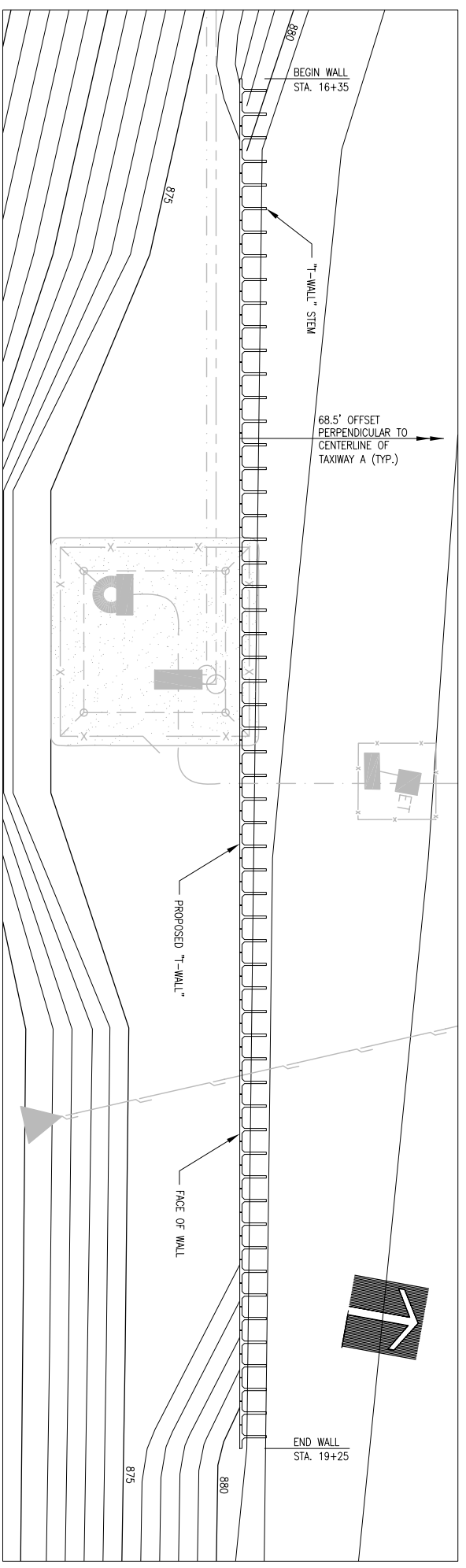
HANDRAIL DETAIL
 SCALE: NONE



DETAIL "A"
 SCALE: NONE

NOTE:
 1. T-WALL UNIT DIMENSIONS, SHEAR KEY LOCATIONS, NUMBER AND LOCATION OF HANDRAIL POSTS, TOP OF LEVELING PAD DIMENSIONS, ETC. ARE SUBJECT TO CHANGE PER DESIGN AND SPECIFICATIONS PROVIDED BY OTHERS.
 2. THE T-WALL RETAINING WALL SYSTEM IS A PROPRIETARY WALL SYSTEM OWNED BY THE NEEL COMPANY. THE WALL SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN ILLINOIS. THE CONTRACTOR SHALL SUBMIT THE DESIGN CALCULATIONS AND PLANS TO THE RESIDENT ENGINEER 30 DAYS PRIOR TO START OF CONSTRUCTION FOR APPROVAL.
 3. THE DESIGN OF ALTERNATE WALL TYPES SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.

- GENERAL NOTES:
 1. SELECT BACKFILL MATERIAL BETWEEN STEM AND BEHIND WALLS:
 - ANGLE OF INTERNAL FRICTION - 34° (MINIMUM)
 - DENSITY - 120 pcf (WEIGHT) PASSING No. 200 SIEVE
 - 52% MAXIMUM (BY WEIGHT) PASSING No. 40 SIEVE
 - 100% PASSING #1 SIEVE
 - 95% STANDARD PROCTOR COMPACTION (ASTM D-698)
 2. UNCLASSIFIED BACKFILL BEHIND STEMS:
 - ANGLE OF INTERNAL FRICTION - 30°
 - DENSITY - 120 pcf (WEIGHT) PASSING No. 200 SIEVE
 - 52% STANDARD COMPACTION (ASTM D-698)
 3. HORIZONTAL JOINT:
 - 1/2 INCH FIBER EXPANSION JOINT MATERIAL
 4. VERTICAL JOINT:
 - 1/2 INCH SPACE
 - FILTER CLOTH BAKING
 5. CAST-IN-PLACE LEVELING PAD:
 - CONSTRUCTED BY CONTRACTOR
 - NO REPAIR 12 INCH
 - GRADE TOLERANCE - 1/4 INCH IN 10 FEET
 - 2500 psi CONCRETE
 6. FOUNDATION:
 - UNSUITABLE (SOFT OR ORGANIC) MATERIALS TO BE REMOVED AND REPLACED WITH COMPACTED SELECT FILL TO BEHIND PRESSURE - 3000 pcf
 - TOP OF LEVELING PAD ELEVATION SHALL BE 3'-0" BELOW FINISH GRADE (FRONT FACE)(MINIMUM)
 7. CONSTRUCTION:
 - TO BE IN ACCORDANCE WITH T-WALL CONSTRUCTION MANUAL



PLAN VIEW
 SCALE: NONE

NOTE:
 FOR STATIONING REFERENCE SHEET 6.
 WORK WITH SHEET 25.

RETAINING WALL
 PLAN AND DETAILS

CONSTRUCT PARALLEL TAXIWAY A,
 STAGE 2, PAVING
 IDA No. 3CK-3881 AIP No. 3-17-0112-B13



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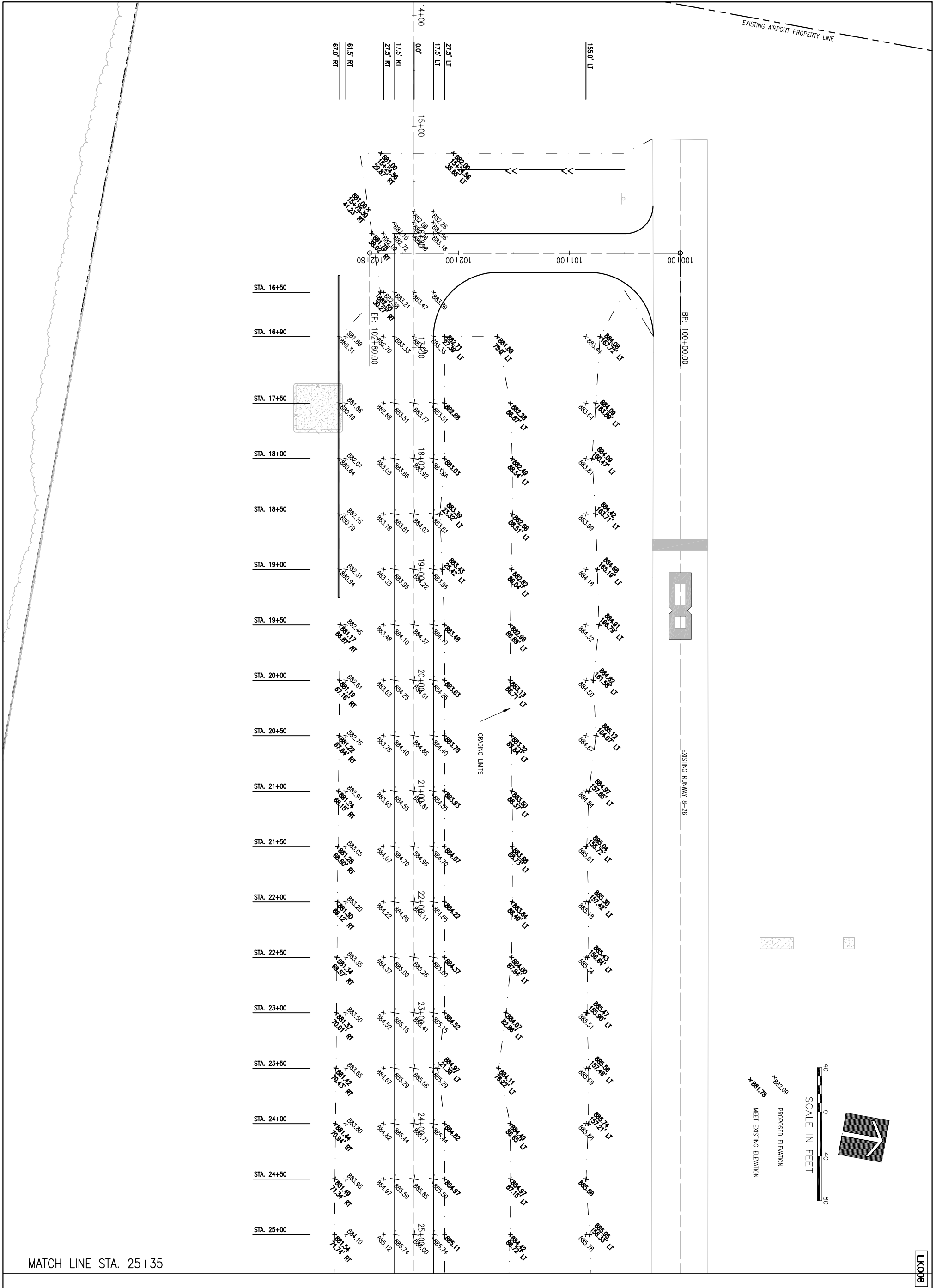
Hanson No. 09A0126
 Filename 26-RETAINING WALL DETAILS.DWG
 Scale
 Date APRIL 16, 2010

LAYOUT	LDH	4/13/10
DRAWN	LDH	3/05/10
REVIEWED	RMH	4/15/10



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DATE	REVISION



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**STAKING PLAN - TAXIWAY A
 STAGE 2, PAVING**

CONSTRUCT PARALLEL TAXIWAY A,
 STAGE 2, PAVING
 IDA No. 3CK-3881 AIP No. 3-17-0112-B13



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Hanson No. 09A0126
 Filename 27-STAKING PLAN 1.DWG
 Scale 1"=40'
 Date APRIL 16, 2010

LAYOUT	LDH	4/7/10
DRAWN	LDH	4/7/10
REVIEWED	RMH	4/15/10

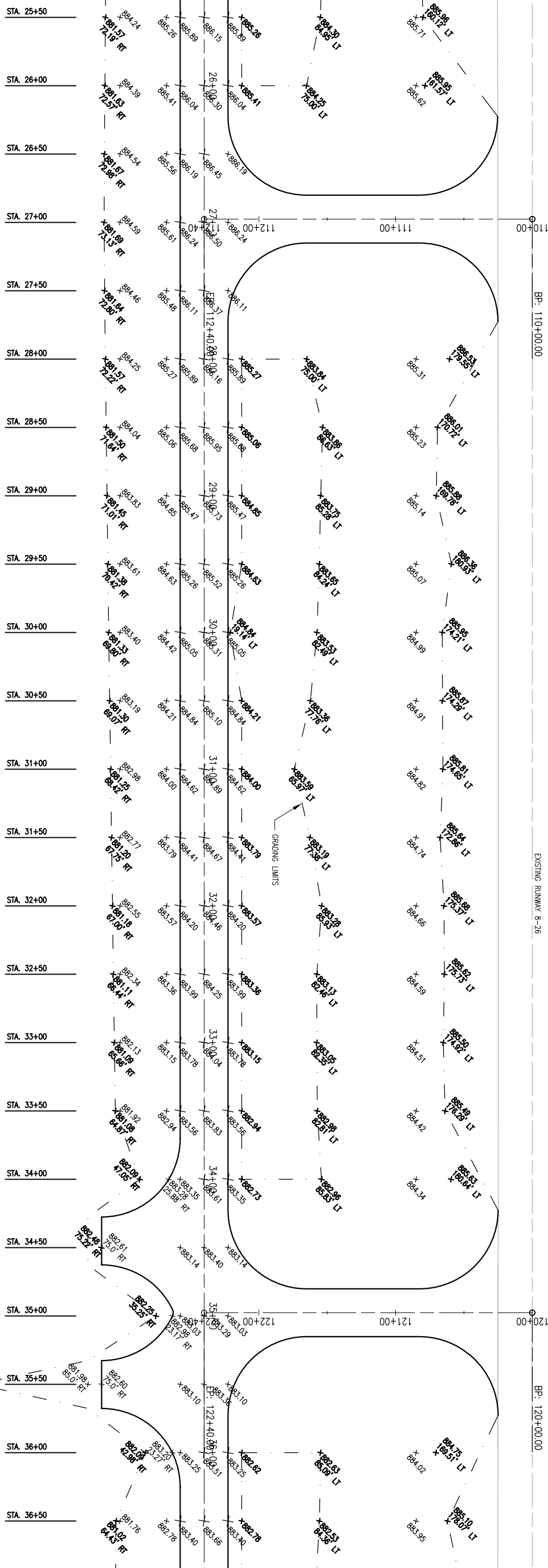


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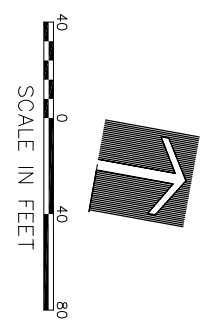
MATCH LINE STA. 25+35



BP: 110+00.00

EXISTING RUNWAY 8-26

BP: 120+00.00



MATCH LINE STA. 36+85

LK008

STAKING PLAN - TAXIWAY A
 STAGE 2, PAVING
 STA. 25+25 THRU STA. 36+85



Hanson No. 09A0126
 Filename 28-STAKING PLAN 1.DWG
 Scale 1"=40'
 Date APRIL 16, 2010



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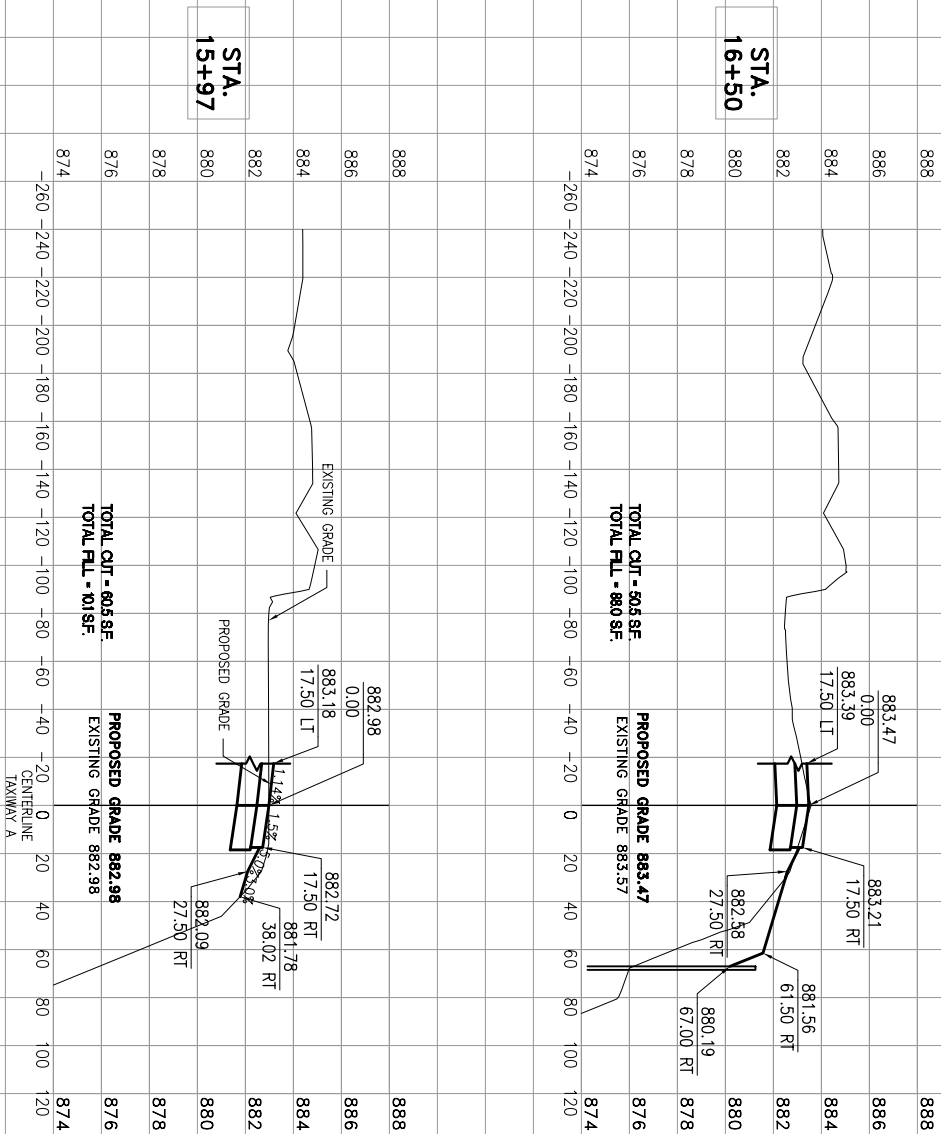
DATE	REVISION

CONSTRUCT PARALLEL TAXIWAY A,
 STAGE 2, PAVING
 IDA No. 3CK-3881 AIP No. 3-17-0112-B13

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LAYOUT	LDH	4/7/10
DRAWN	LDH	4/7/10
REVIEWED	RMH	4/15/10

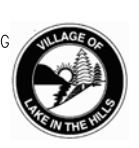
EARTHWORK SUMMARY IN CUBIC YARDS		
CUT		
Topsail	6,400	
Clay	22,250	
TOTAL UNCLASSIFIED CUT		28,650
CLAY FILL		
Fill	4,875	
Shrink (10%)	2,225	
TOTAL UNCLASSIFIED FILL		7,100
Excess Material for Stockpile		15,150
TOPSOIL FILL		
Topsail from On Site	6,400	
Topsail from Off Site	2,660	
TOTAL TOPSOIL REQUIRED		9,060



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DATE	REVISION

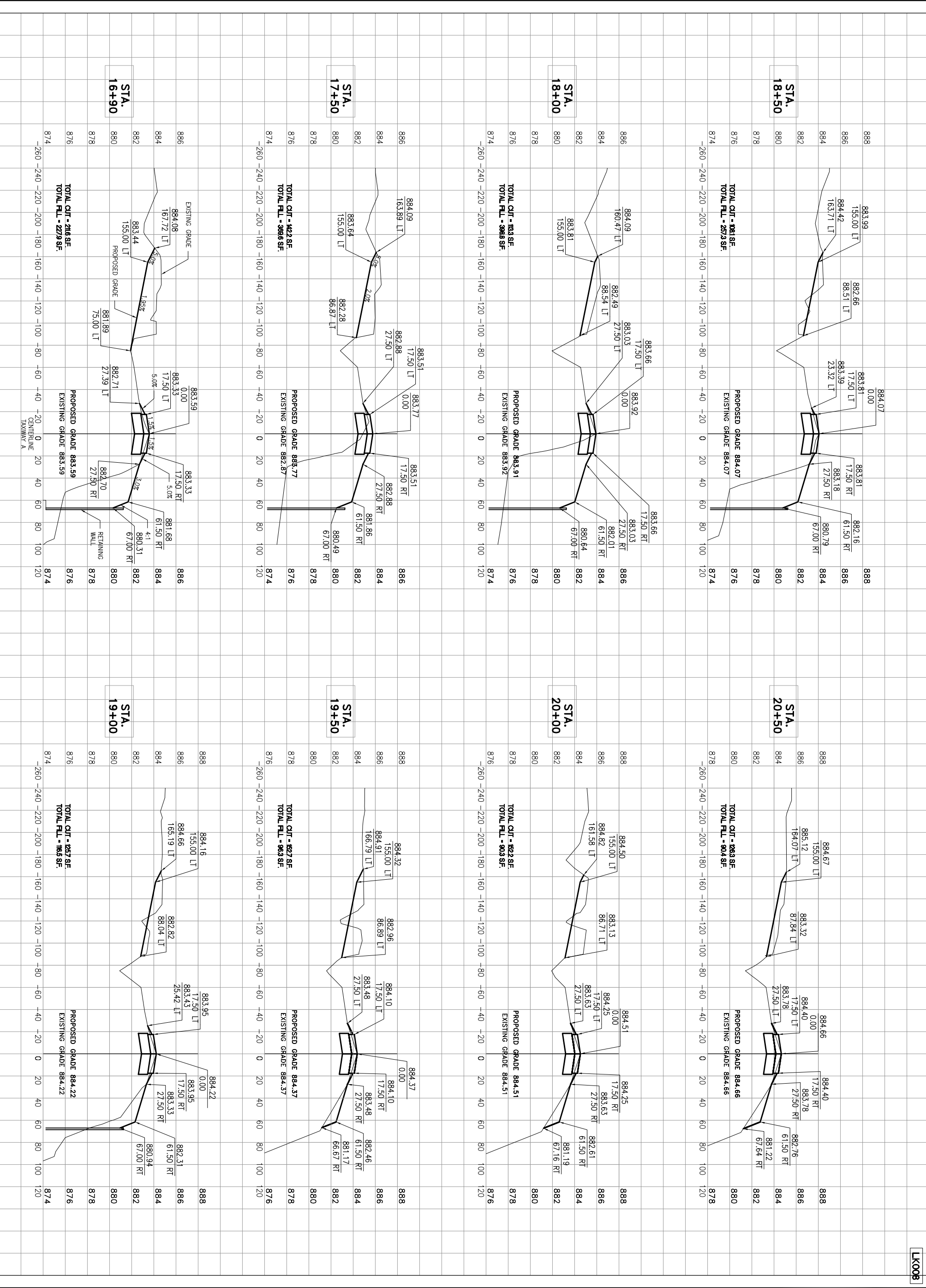
VILLAGE OF LAKE IN THE HILLS
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 Lake in the Hills, Illinois 60156 Telephone:
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Hanson No.	09A0126
Filename	31-CROSS SECTIONS A.DWG
Scale	1"=40'
Date	APRIL 16, 2010
LAYOUT	LDH 4/7/10
DRAWN	LDH 4/7/10
REVIEWED	RMH 4/15/10

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**CROSS SECTIONS-TAXIWAY A
 STA. 15+97 THRU STA. 16+50**
**CONSTRUCT PARALLEL TAXIWAY A,
 STAGE 2, PAVING**
 IDA No. 3CK-3881 AIP No. 3-17-0112-B13



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DATE	REVISION

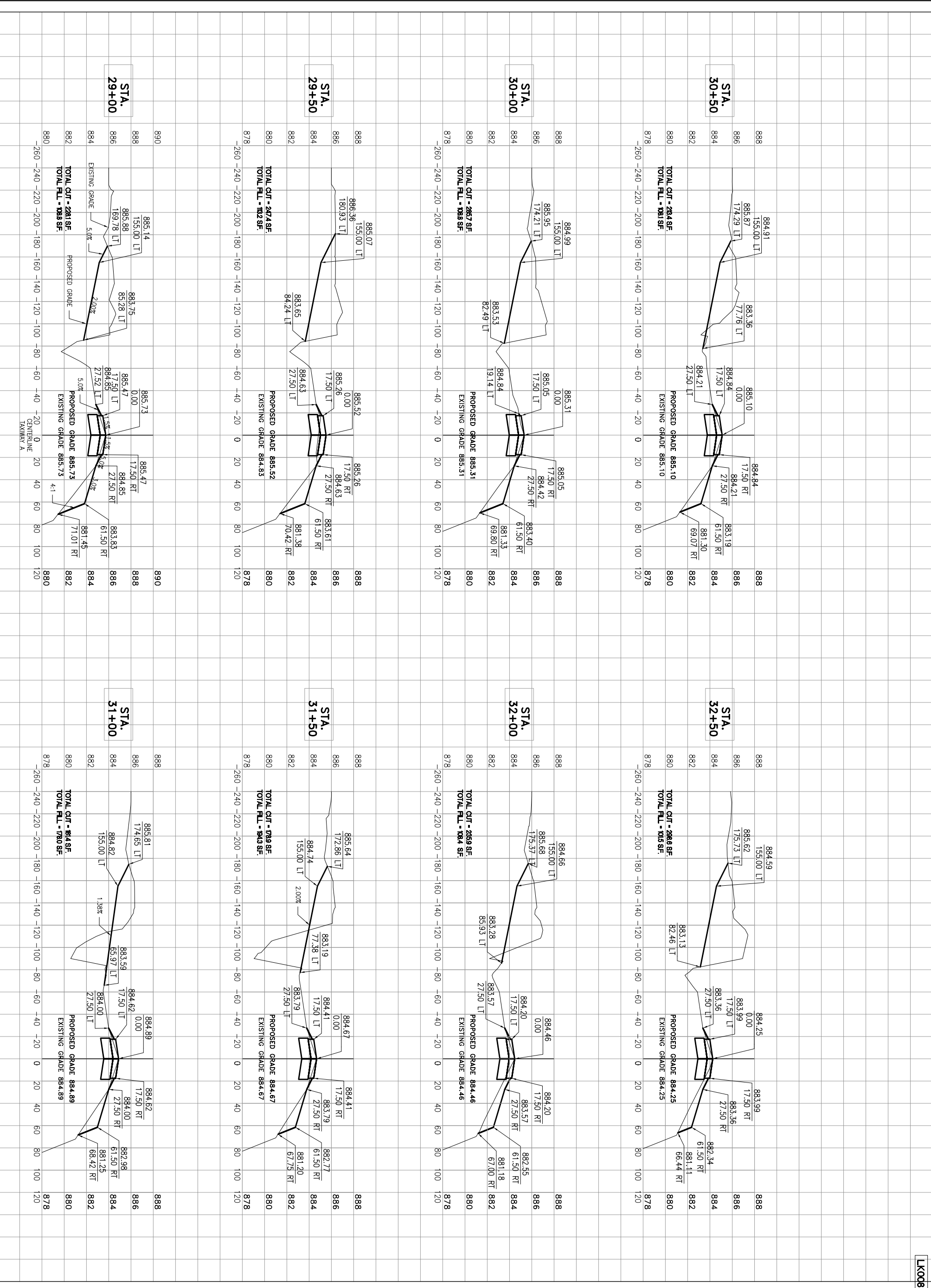
VILLAGE OF LAKE IN THE HILLS
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Hanson No.	09A0126	
Filename	32-CROSS SECTIONS A.DWG	
Scale	1"=40'	
Date	APRIL 16, 2010	
LAYOUT	LDH	4/7/10
DRAWN	LDH	4/7/10
REVIEWED	RMH	4/15/10

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CROSS SECTIONS-TAXIWAY A
STA. 16+90 THRU STA. 20+50
CONSTRUCT PARALLEL TAXIWAY A,
STAGE 2, PAVING
 IDA No. 3CK-3881 AIP No. 3-17-0112-B13



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CROSS SECTIONS-TAXIWAY A
STA. 29+00 THRU STA. 32+50

CONSTRUCT PARALLEL TAXIWAY A,
STAGE 2, PAVING
 IDA No. 3CK-3881 AIP No. 3-17-0112-B13

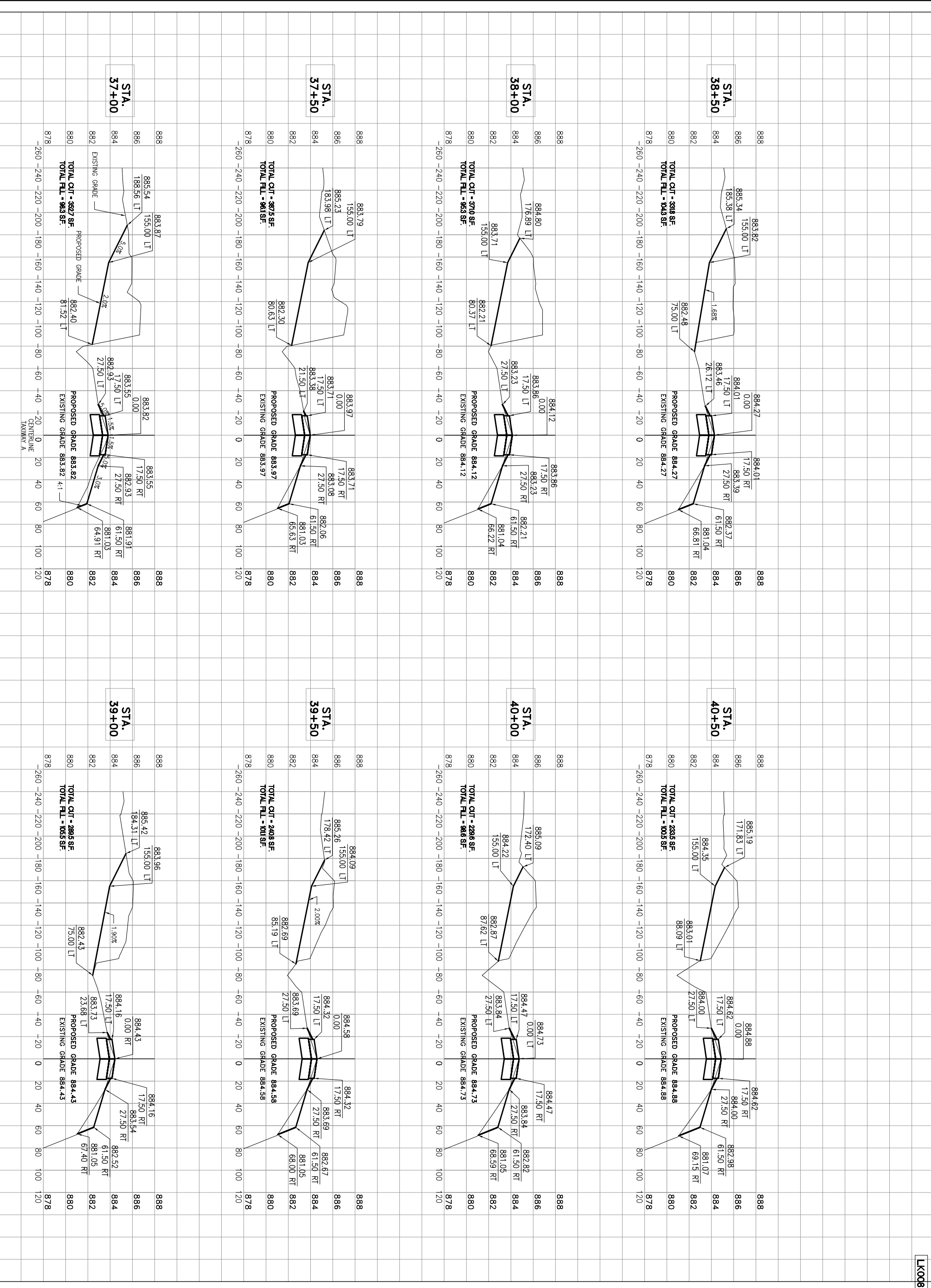


Hanson No.	09A0126	
Filename	35-CROSS SECTIONS A.DWG	
Scale	1"=40'	
Date	APRIL 16, 2010	
LAYOUT	LDH	4/7/10
DRAWN	LDH	4/7/10
REVIEWED	RMH	4/15/10



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DATE	REVISION



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DATE	REVISION

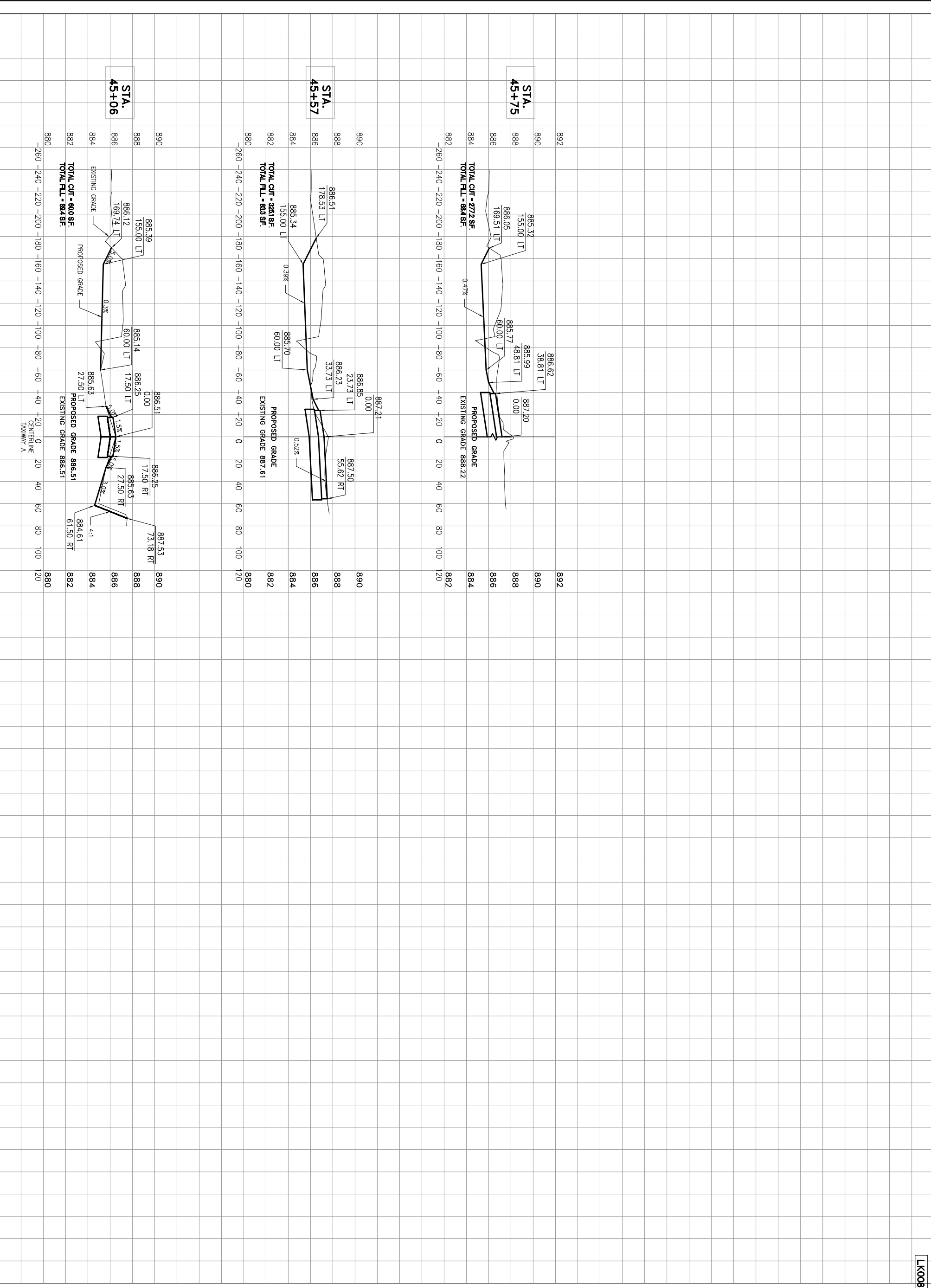
VILLAGE OF LAKE IN THE HILLS
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Hanson No.	09A0126	
Filename	37-CROSS SECTIONS A.DWG	
Scale	1"=40'	
Date	APRIL 16, 2010	
LAYOUT	LDH	4/7/10
DRAWN	LDH	4/7/10
REVIEWED	RMH	4/15/10

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CROSS SECTIONS-TAXIWAY A
STA. 37+00 THRU STA. 40+50
CONSTRUCT PARALLEL TAXIWAY A,
STAGE 2, PAVING
 IDA No. 3CK-3881 AIP No. 3-17-0112-B13



LK008

39
 CROSS SECTIONS-TAXIWAY A
 STA. 45+06 THRU STA. 45+75
 CONSTRUCT PARALLEL TAXIWAY A,
 STAGE 2, PAVING
 IDA No. 3CK-3881 AIP No. 3-17-0112-B13

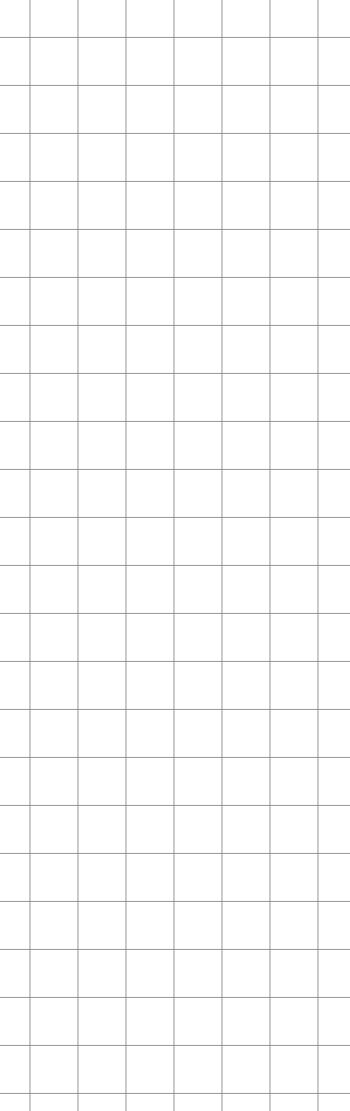
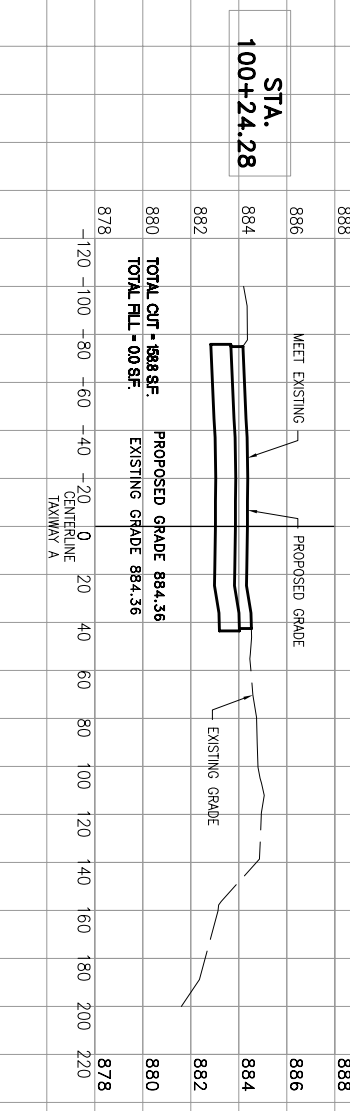
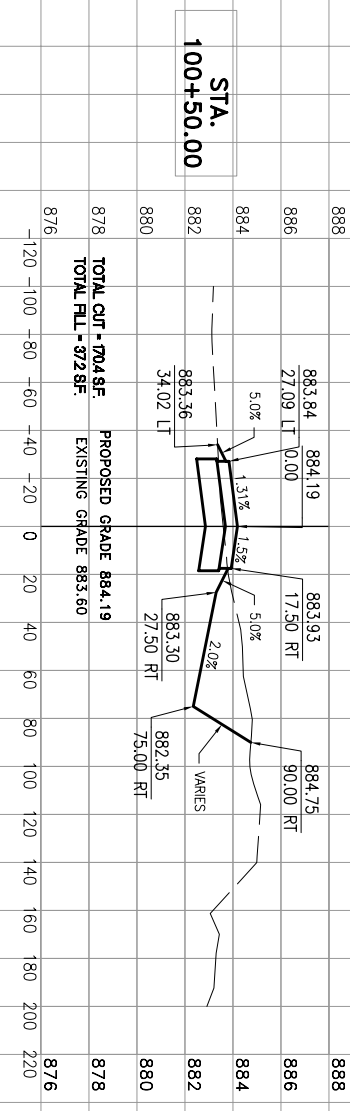
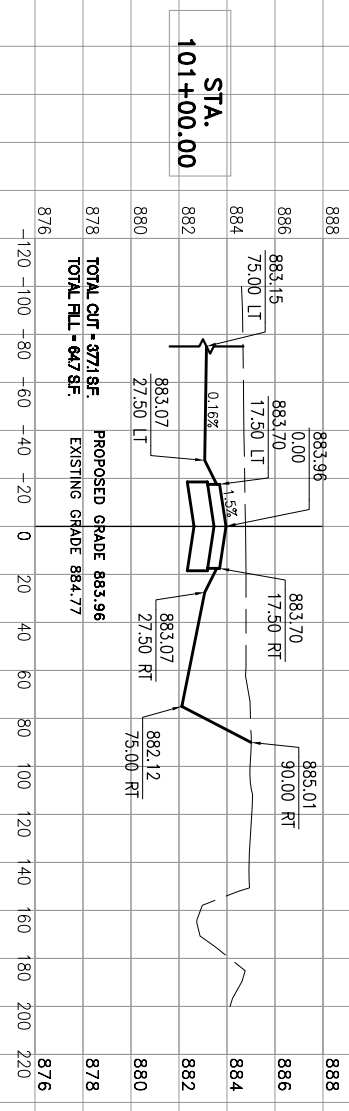
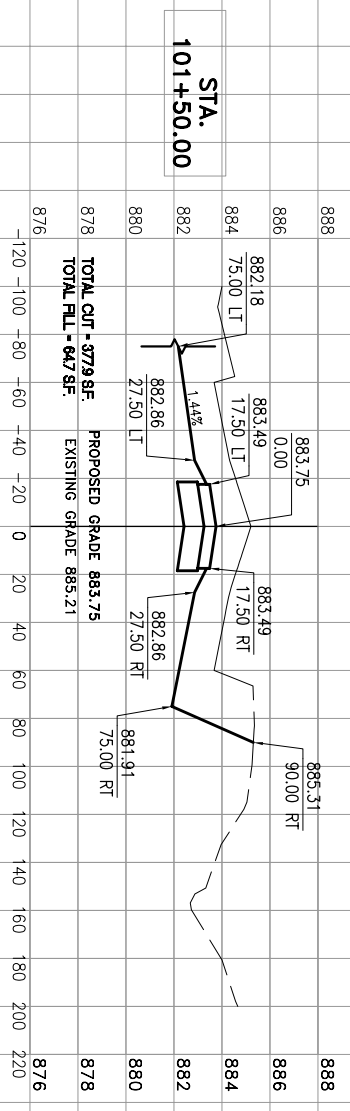


Hanson No.	09A0126	
Filename	39-CROSS SECTIONS A.DWG	
Scale	1"=40'	
Date	APRIL 16, 2010	
LAYOUT	LDH	4/7/10
DRAWN	LDH	4/7/10
REVIEWED	RMH	4/15/10



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CROSS SECTIONS
 TAXIWAY A ENTRANCE



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Hanson No. 09A0126
 Filename 40-CROSS SECTIONS A ENT.DWG
 Scale 1"=40'
 Date APRIL 16, 2010

LAYOUT	LDH	3/31/10
DRAWN	LDH	3/31/10
REVIEWED	RMH	4/15/10

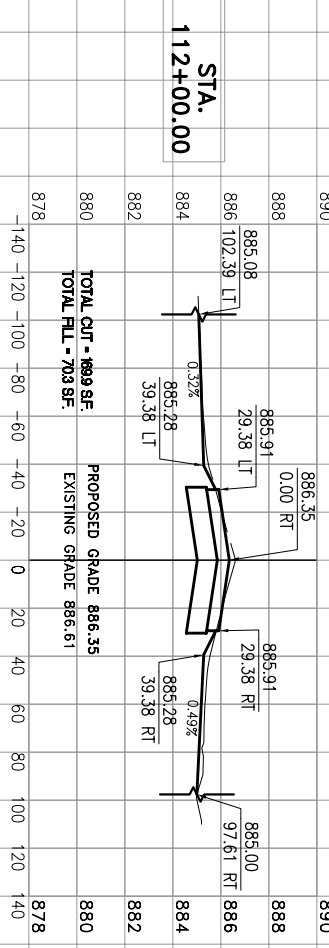
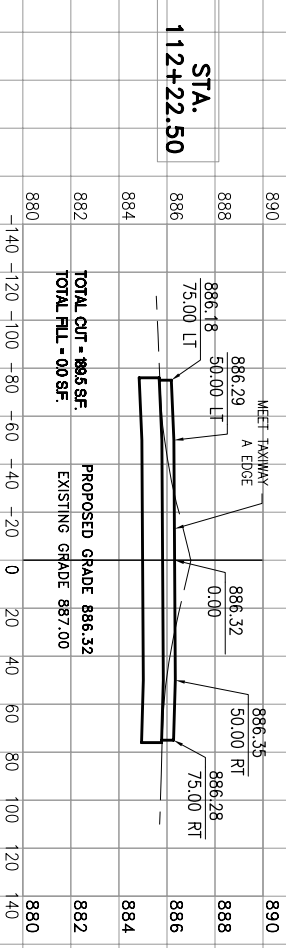
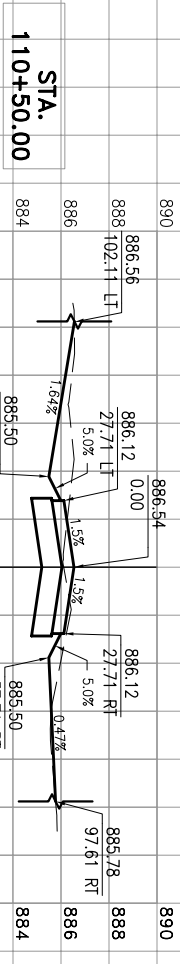
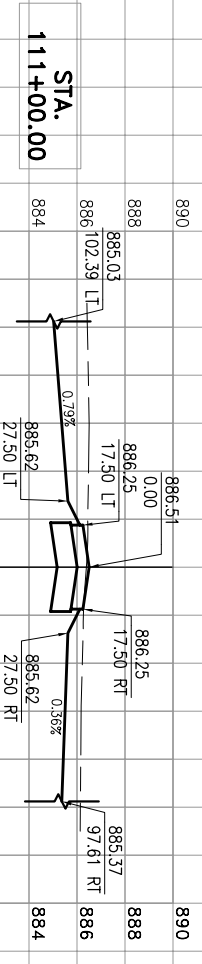
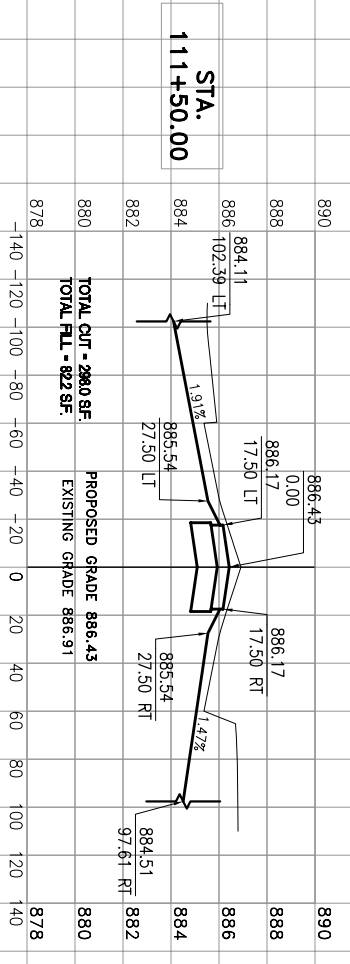


VILLAGE OF
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DATE	REVISION

CONSTRUCT PARALLEL TAXIWAY A,
 STAGE 2, PAVING
 IDA No. 3CK-3881 AIP No. 3-17-0112-B13



CROSS SECTIONS TAXIWAY A1



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Hanson No. 09A0126
 Filename 41-CROSS SECTIONS A1.DWG
 Scale 1"=40'
 Date APRIL 16, 2010

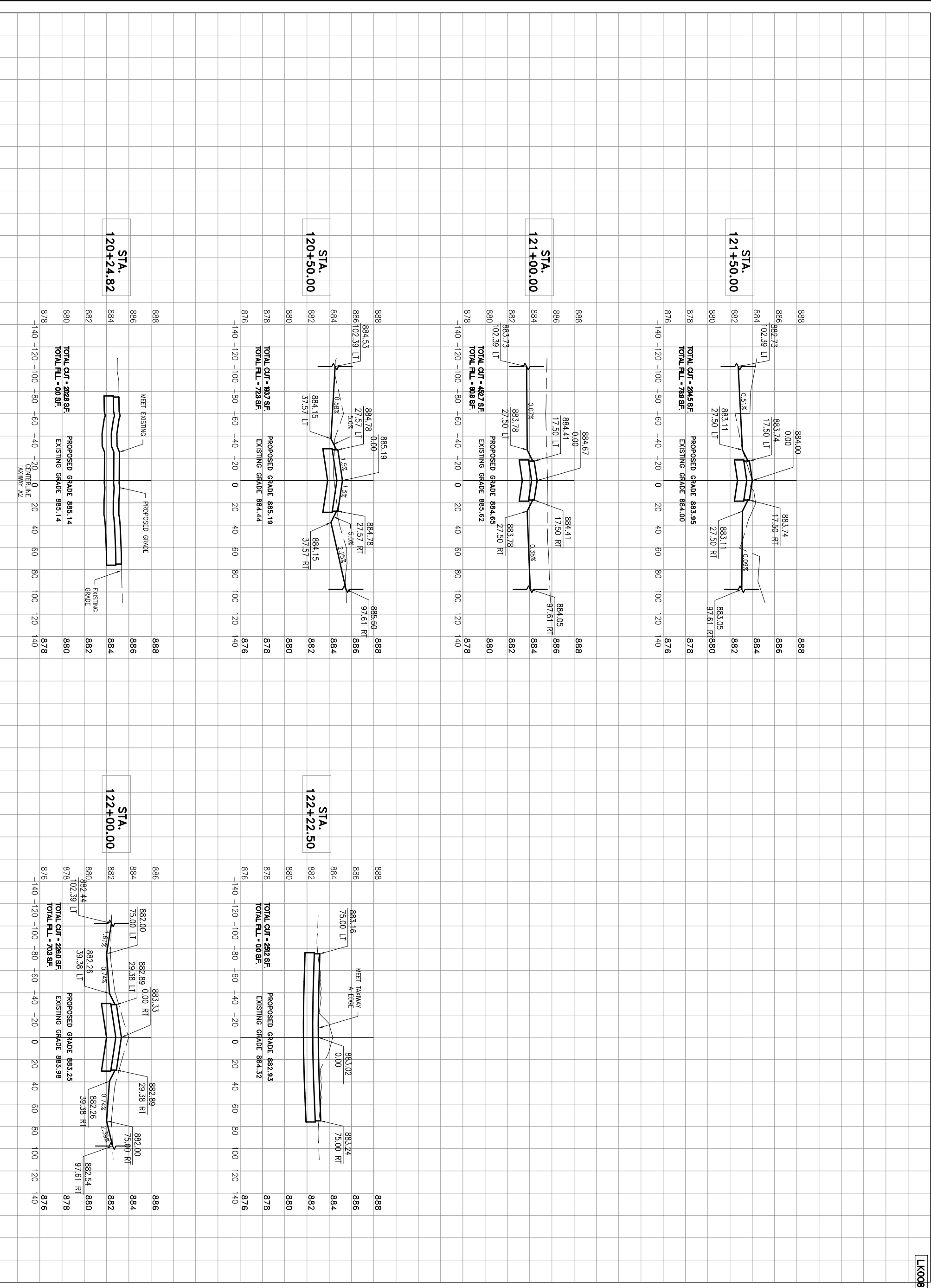
LAYOUT	LDH	3/31/10
DRAWN	LDH	3/31/10
REVIEWED	RMH	4/15/10



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DATE	REVISION

CONSTRUCT PARALLEL TAXIWAY A, STAGE 2, PAVING
 IDA No. 3CK-3881 AIP No. 3-17-0112-B13



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CROSS SECTIONS
 TAXIWAY A2

CONSTRUCT PARALLEL TAXIWAY A,
 STAGE 2, PAVING
 IDA No. 3CK-3881 AIP No. 3-17-0112-B13



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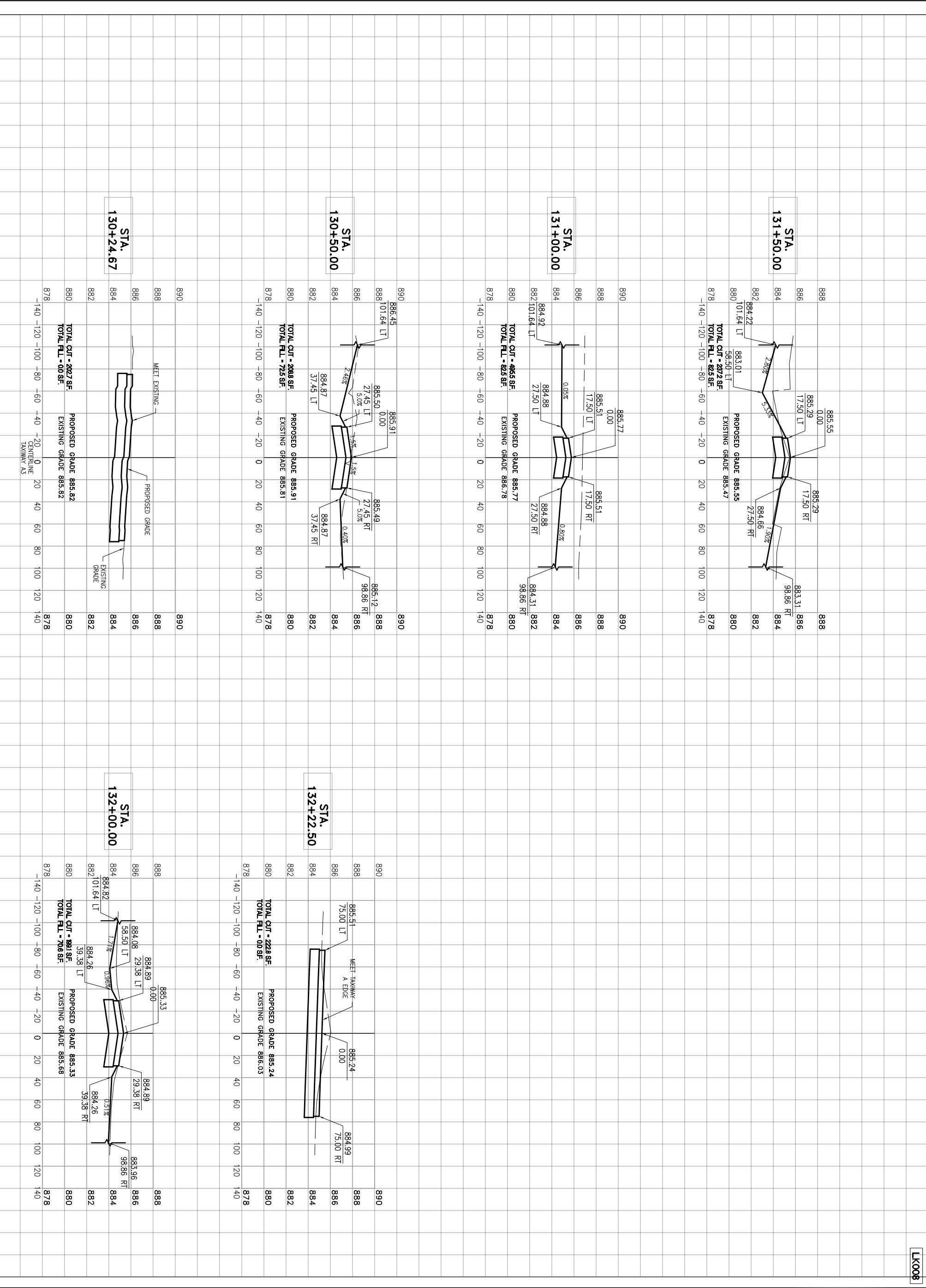
Hanson No. 09A0126
 Filename 42-CROSS SECTIONS A2.DWG
 Scale 1"=40'
 Date APRIL 16, 2010

LAYOUT	LDH	3/31/10
DRAWN	LDH	3/31/10
REVIEWED	RMH	4/15/10



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DATE	REVISION



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**CROSS SECTIONS
TAXIWAY A3**

43

CONSTRUCT PARALLEL TAXIWAY A,
 STAGE 2, PAVING
 IDA No. 3CK-3881 AIP No. 3-17-0112-B13

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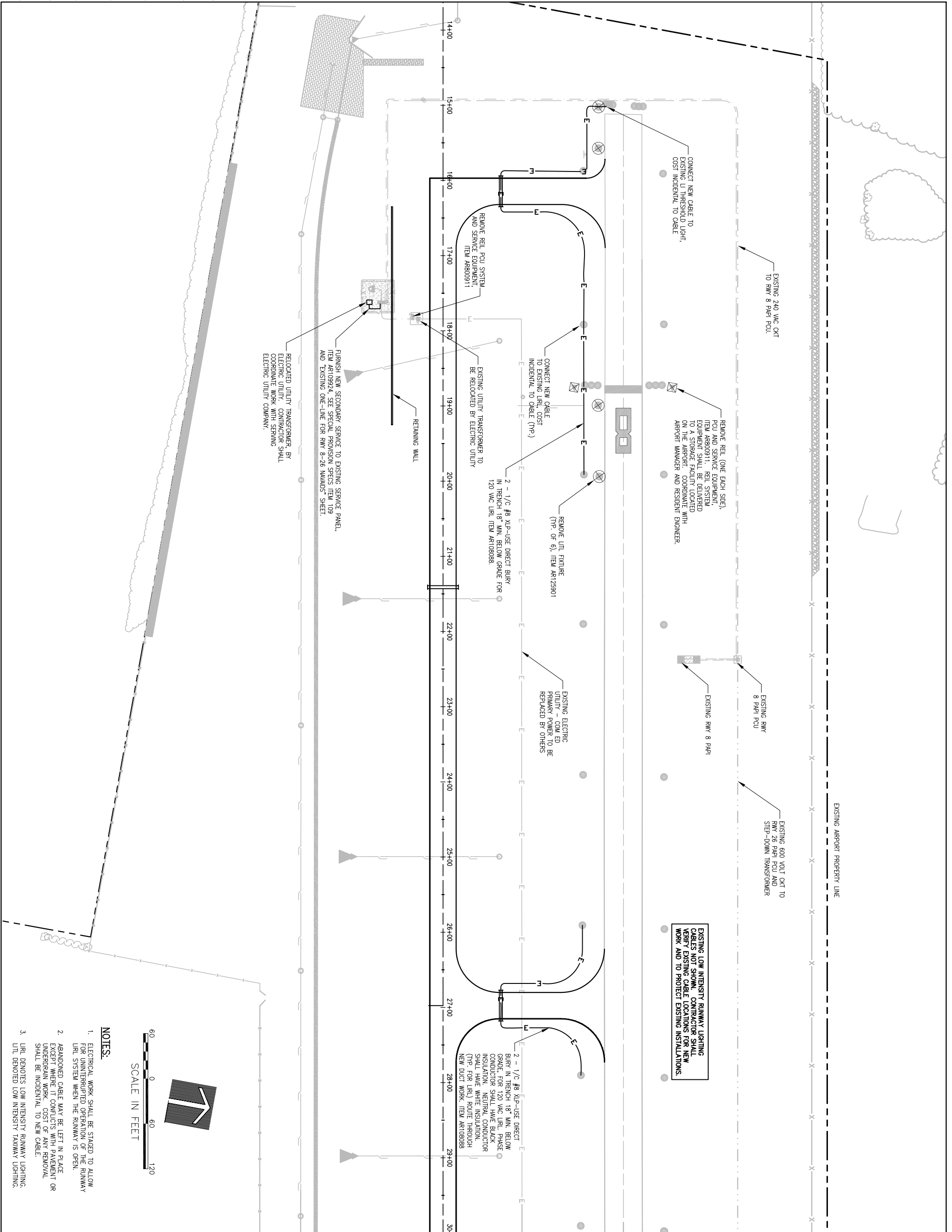
Hanson No. 09A0126
 Filename 43-CROSS SECTIONS A3.DWG
 Scale 1"=40'
 Date APRIL 16, 2010

LAYOUT	LDH	3/31/10
DRAWN	LDH	3/31/10
REVIEWED	RMH	4/15/10



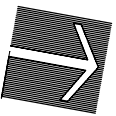
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DATE	REVISION



NOTES:

1. ELECTRICAL WORK SHALL BE STAGED TO ALLOW FOR UNINTERRUPTED OPERATION OF THE RUNWAY URLL SYSTEM WHEN THE RUNWAY IS OPEN.
2. ABANDONED CABLE MAY BE LEFT IN PLACE EXCEPT WHERE IT CONFLICTS WITH PAVEMENT OR UNDERDRAN WORK. COST OF ANY REMOVAL SHALL BE INCIDENTAL TO NEW CABLE.
3. URLL DENOTES LOW INTENSITY RUNWAY LIGHTING.



LK008

ELECTRICAL PLAN



Hanson No. 09A0126
 Filename 44-ELECTRICAL PLAN1 STA. 15+50 THRU STA. 30+00.DWG
 Scale 1"=60'
 Date APRIL 16, 2010



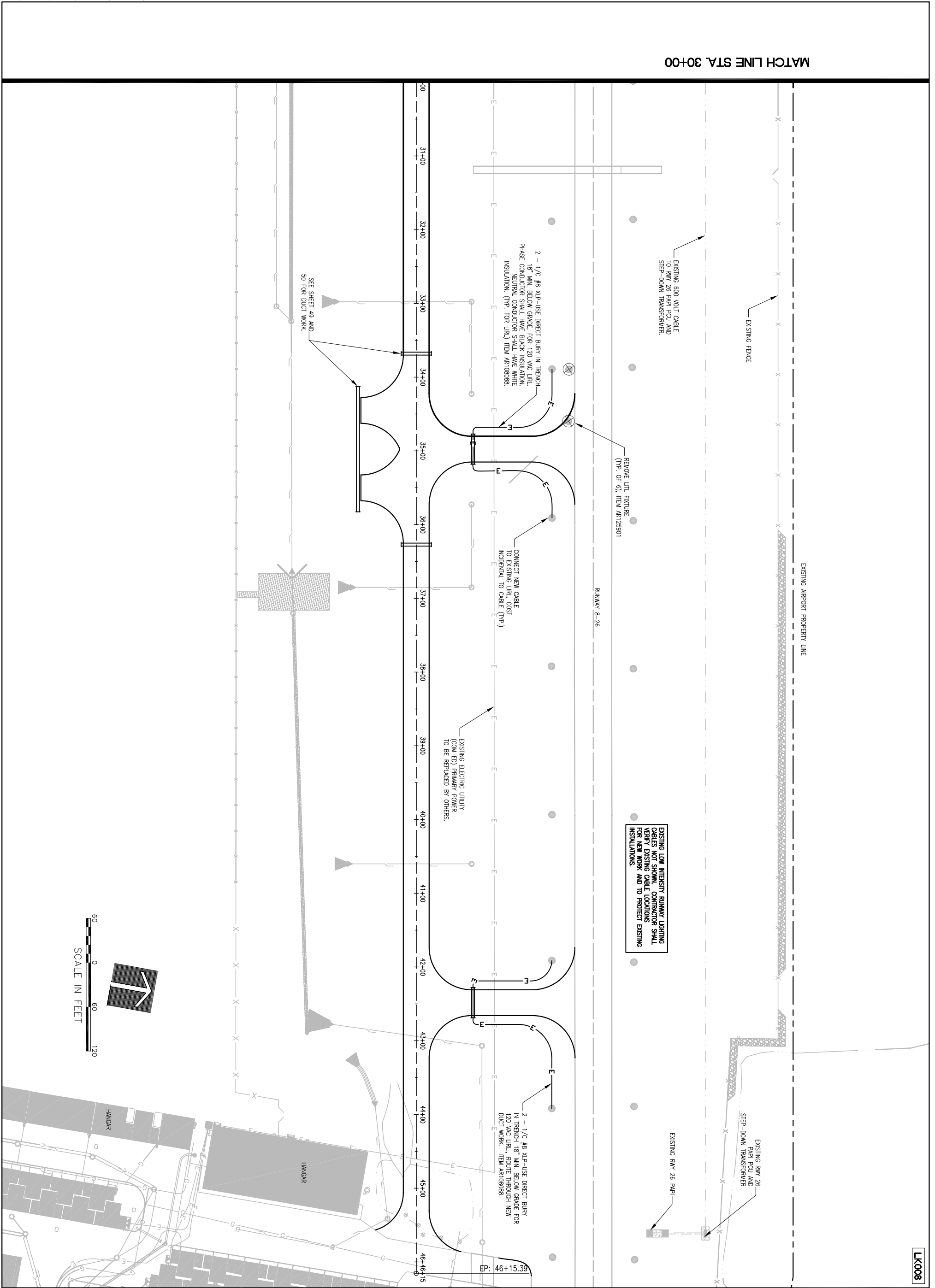
VILLAGE OF LAKE IN THE HILLS
 600 Harvest Gate
 Lake in the Hills, Illinois 60156 Telephone: 847.960.7410
 Fax: 847.960.7515

DATE	REVISION

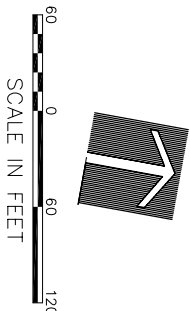
CONSTRUCT PARALLEL TAXIWAY A, STAGE 2, PAVING
 IDA No. 3CK-3881 AIP No. 3-17-0112-B13

Hanson Professional Services Inc.
 815 Commerce Drive Suite 200
 Oak Brook, Illinois 60523

LAYOUT	LDH	3/31/10
DRAWN	LDH	3/31/10
REVIEWED	RMH	4/15/10



MATCH LINE STA. 30+00



LK008

ELECTRICAL PLAN



Hanson No. 09A0126
 Filename 45-ELECTRICAL PLAN2 STA. 30+00 THRU STA. 46+15.DWG
 Scale 1"=60'
 Date APRIL 16, 2010



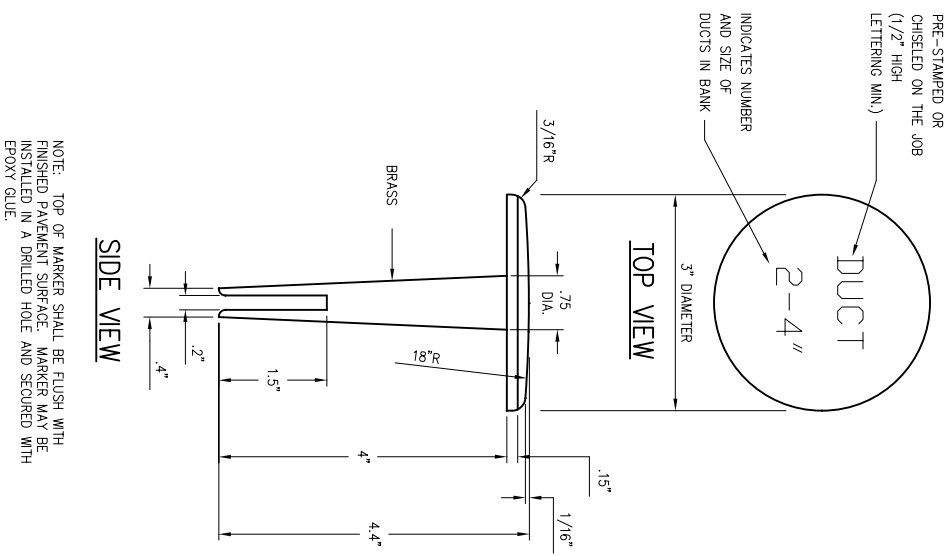
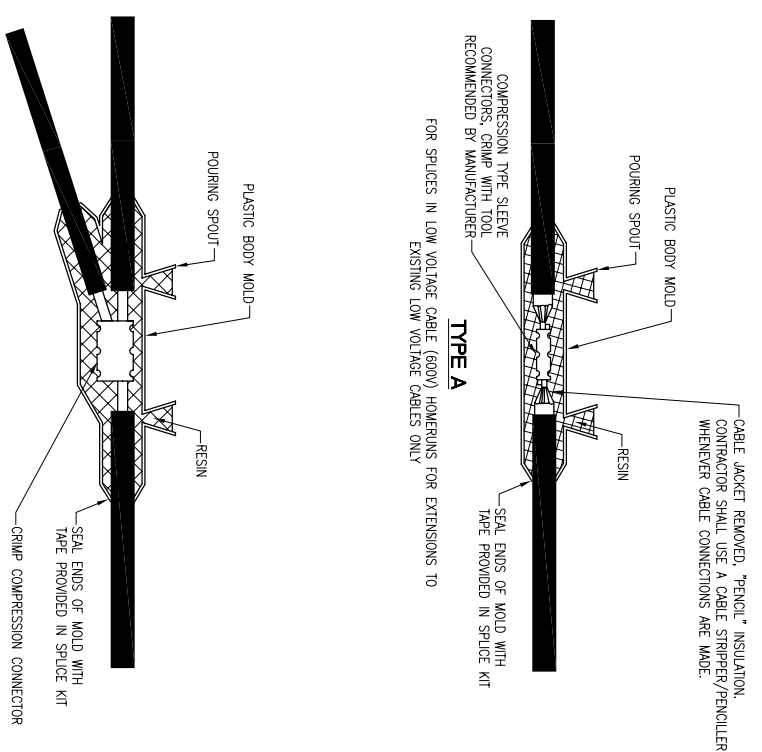
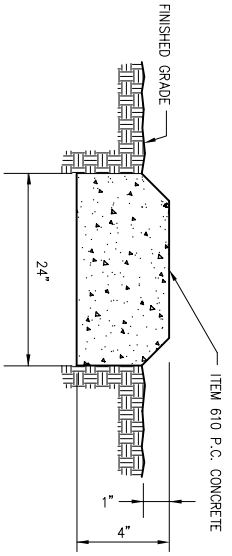
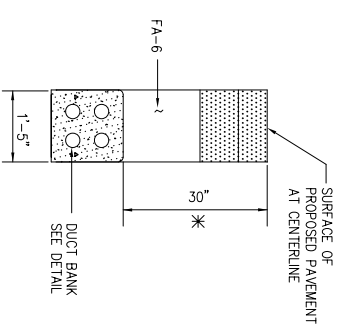
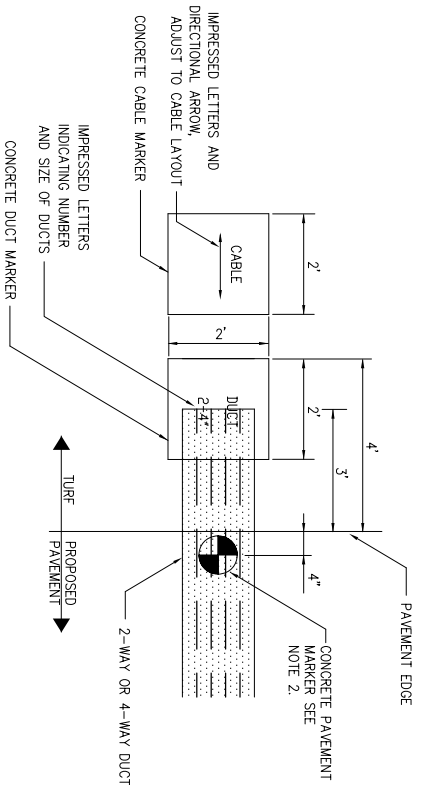
VILLAGE OF LAKE IN THE HILLS
 600 Harvest Gate
 Lake in the Hills, Illinois 60156 Telephone:
 847.960.7410
 Fax: 847.960.7515

DATE	REVISION

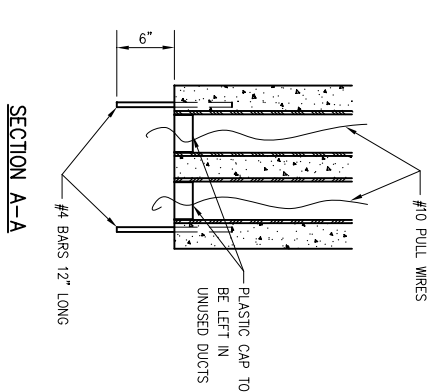
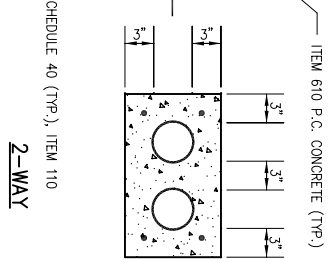
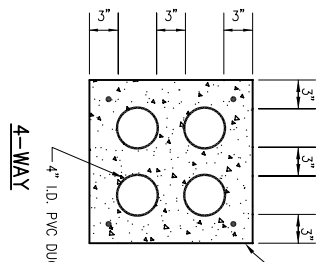
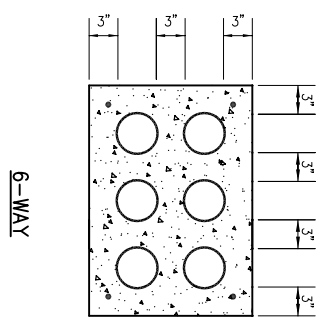
CONSTRUCT PARALLEL TAXIWAY A,
 STAGE 2, PAVING
 IDA No. 3CK-3881 AIP No. 3-17-0112-B13

Hanson Professional Services Inc.
 815 Commerce Drive Suite 200
 Oak Brook, Illinois 60523

LAYOUT	LDH	3/31/10
DRAWN	LDH	3/31/10
REVIEWED	RMH	4/15/10



- 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 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.



CONCRETE ENCASED DUCTS

- NOTES:
1. DIMENSIONS ARE MINIMUMS.
 2. DUCT SPACERS SHALL BE USED TO MAINTAIN MAINTAIN SPACING DURING CONSTRUCTION.
 3. DEPTH TO TOP OF CONCRETE SHALL BE 30" MINIMUM ADJUST DEPTH TO BE 12" LOWER THAN UNDERDRAN, SEE DETAILS AND PLANS.

BITUMINOUS PAVEMENT MARKER
TURF AND PAVEMENT DUCT AND CABLE MARKERS

NOTE: TOP OF MARKER SHALL BE FLUSH WITH FINISHED PAVEMENT SURFACE. MARKER MAY BE INSTALLED IN A DRILLED HOLE AND SECURED WITH EPOXY GULC.

DETAILS SHOWN ARE NOT TO SCALE

LK008

DATE	REVISION

VILLAGE OF LAKE IN THE HILLS
 600 Harvest Gate
 Lake in the Hills, Illinois 60156 Telephone:
 847.960.7410
 Fax: 847.960.7515



Hanson No.	09A0126	
Filename	46-ELECTRICAL DETAILS.DWG	
Scale		
Date	APRIL 16, 2010	
LAYOUT	LDH	3/05/10
DRAWN	SJM	3/05/10
REVIEWED	RMH	4/15/10

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ELECTRICAL DUCT DETAILS
CONSTRUCT PARALLEL TAXIWAY A, STAGE 2, PAVING
 IDA No. 3CK-3881 AIP No. 3-17-0112-B13

ELECTRICAL LEGEND - ONE-LINE DIAGRAM	
	CABLE TERMINATOR/LUG
	TRANSFORMER
	DISCONNECT SWITCH
	FUSIBLE DISCONNECT SWITCH
	CIRCUIT BREAKER
	THERMAL MAGNETIC CIRCUIT BREAKER
	NORMALLY OPEN (N.O.) CONTACT
	NORMALLY CLOSED (N.C.) CONTACT
	FUSE
	TRANSIENT VOLTAGE SURGE SUPPRESSOR OR SURGE PROTECTOR DEVICE
	GROUND - GROUND ROD, GROUNDING ELECTRODE, OR AT EARTH POTENTIAL
	LIGHT FIXTURE
	MOTOR
	LOAD, MOTOR, # = HORSEPOWER
	ELECTRIC UTILITY METER BASE
	JUNCTION BOX WITH SPLICE
	EQUIPMENT, XXX = DEVICE DESCRIPTION
	GROUND BAR, GROUND BUS, OR GROUND TERMINAL
	SOLID NEUTRAL, NEUTRAL BUS, OR NEUTRAL TERMINAL
	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

ELECTRICAL ABBREVIATIONS	
A.F.F.	ABOVE FINISHED FLOOR
A AMP	AMPERES
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BKR	BREAKER
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CR	CONTROL RELAY
CU	COPPER
DDT	DOUBLE POLE DOUBLE THROW
DPST	DOUBLE POLE SINGLE THROW
DTSS	DOUBLE THROW FUSIBLE SAFETY SWITCH
DTSSS	DOUBLE THROW NON FUSIBLE SAFETY SWITCH
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
EP	EXPLOSION PROOF
ES	EMERGENCY STOP
ETL	INTERTEX - ELECTRICAL TESTING LABS
ETM	ELAPSE TIME METER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
GRSC	GALVANIZED RIGID STEEL CONDUIT
HID	HIGH INTENSITY DISCHARGE
HOK	HAND OFF AUTOMATIC
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
J	JUNCTION BOX
KVA	KILOVOLT AMPERES(S)
KW	KILOWATTS
LC	LIGHTING CONTACTOR
LTRMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT (UL LISTED)
LTS	LIGHTING
LP	LIGHTING PANEL
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MCM	THOUSAND CIRCUAR MIL
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
MH	METAL HALIDE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
NEC	NATIONAL ELECTRICAL CODE (NFPA 70)
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OHE	OVERHEAD ELECTRIC
OL	OVERLOAD

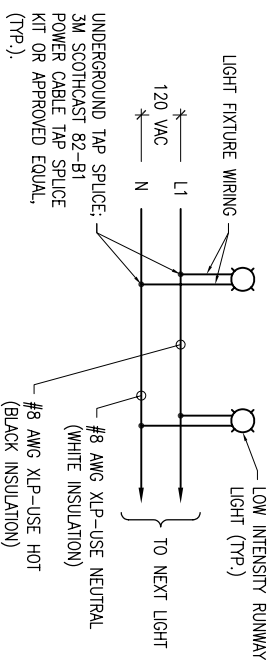
ELECTRICAL ABBREVIATIONS (CONTINUED)	
PB	PULL BOX
PC	PHOTO CELL
PDB	POWER DISTRIBUTION BLOCK
PML	PANEL
RCPH	RECEPTACLE
R	RELAY
S	STARTER
SPD	SURGE PROTECTION DEVICE
SPST	SINGLE POLE SINGLE THROW
TSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TYP	TYPICAL
UG	UNDERGROUND
UGE	UNDERGROUND ELECTRIC
UL	UNDERWRITERS LABORATORIES
V	VOLTS
W/	WITH
W/O	WITHOUT
WP	WEATHER PROOF
XFER	TRANSFER
XTRM	TRANSFORMER

AIRPORT EQUIPMENT/FACILITY ABBREVIATIONS	
ASOS	AUTOMATED SURFACE OBSERVING SYSTEM
ATCT	AIR TRAFFIC CONTROL TOWER
AMOS	AUTOMATED WEATHER OBSERVING SYSTEM
CCR	CONSTANT CURRENT REGULATOR
DME	DISTANCE MEASURING EQUIPMENT
FAR	FEDERAL AVIATION REGULATION
GS	GRADE SLOPE FACILITY
HRL	HIGH INTENSITY RUNWAY LIGHT
ILS	INSTRUMENT LANDING SYSTEM
M	INNER MARKER
LR	LOW IMPACT-RESISTANT
LRL	LOW INTENSITY RUNWAY LIGHT
LTL	LOW INTENSITY TAXIWAY LIGHT
LCC	LOCALIZER FACILITY
MAS	MEDIUM INTENSITY APPROACH LIGHTING SYSTEM
MASR	MEDIUM INTENSITY APPROACH LIGHTING SYSTEM WITH RUNWAY ALIGNMENT INDICATING LIGHTS
MRL	MEDIUM INTENSITY RUNWAY LIGHT
MTL	MEDIUM INTENSITY TAXIWAY LIGHT
NDB	NON-DIRECTIONAL BEACON
PAPI	PRECISION APPROACH PATH INDICATOR
PLSI	PULSE LIGHT APPROACH SLOPE INDICATOR
RAL	RUNWAY ALIGNMENT INDICATING LIGHTS
REL	RUNWAY END IDENTIFIER LIGHT
RVR	RUNWAY VISUAL RANGE
VAD	VISUAL APPROACH DESCENT INDICATOR
VASI	VISUAL APPROACH SLOPE INDICATOR
VOR	VERY HIGH FREQUENCY OMNIDIRECTIONAL RANGE FACILITY
WC	WIND CONE

LK008

NOTES:

- ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN CONFORMANCE WITH NFPA 70 - NATIONAL ELECTRICAL CODE (NEC) 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 WILL NOT BE PERMITTED.
- ALL WORK, POWER OUTAGES, AND/OR SHUT DOWN OF EXISTING SYSTEMS SHALL BE COORDINATED WITH THE AIRPORT DIRECTOR. ONCE SHUT DOWN, THE CIRCUITS SHALL BE LABELED AS SUCH TO PREVENT ACCIDENTAL ENERGIZING OF THE RESPECTIVE CIRCUITS. ALL PERSONNEL SHALL FOLLOW U.S. DEPARTMENT OF LABOR OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION (OSHA) 29 CFR PART 1910 OCCUPATIONAL SAFETY & HEALTH STANDARDS FOR ELECTRICAL SAFETY AND LOCKOUT/TAGOUT PROCEDURES INCLUDING, BUT NOT LIMITED TO, 29 CFR SECTION 1910.147 THE CONTROL OF HAZARDOUS ENERGY (LOCKOUT/TAGOUT).
- 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 TO COMPLY WITH NEC 250.119. NEUTRAL CONDUCTORS SHALL HAVE WHITE COLORED INSULATION FOR NO. 6 AWG AND SMALLER TO MEET THE REQUIREMENTS OF NEC 200.6. STANDARD COLORS FOR POWER WIRING AND BRANCH CIRCUITS SHALL BE AS FOLLOWS:
 120/240 VAC, 1 PHASE, 3 WIRE
 PHASE A BLACK
 PHASE B RED
 NEUTRAL WHITE
 GROUND GREEN
- SEE RESPECTIVE SITE PLANS FOR SITE LEGEND INFORMATION.
- HIGH VOLTAGE & LOW VOLTAGE CIRCUITS SHALL NOT BE INSTALLED IN THE SAME WIREWAY, CONDUIT, DUCT, OR HANDHOLE.



LOW INTENSITY RUNWAY LIGHTING WIRING DIAGRAM

DATE	REVISION

VILLAGE OF LAKE IN THE HILLS

600 Harvest Gate
 Lake in the Hills, Illinois 60156 Telephone:
 847.960.7410
 Fax: 847.960.7515

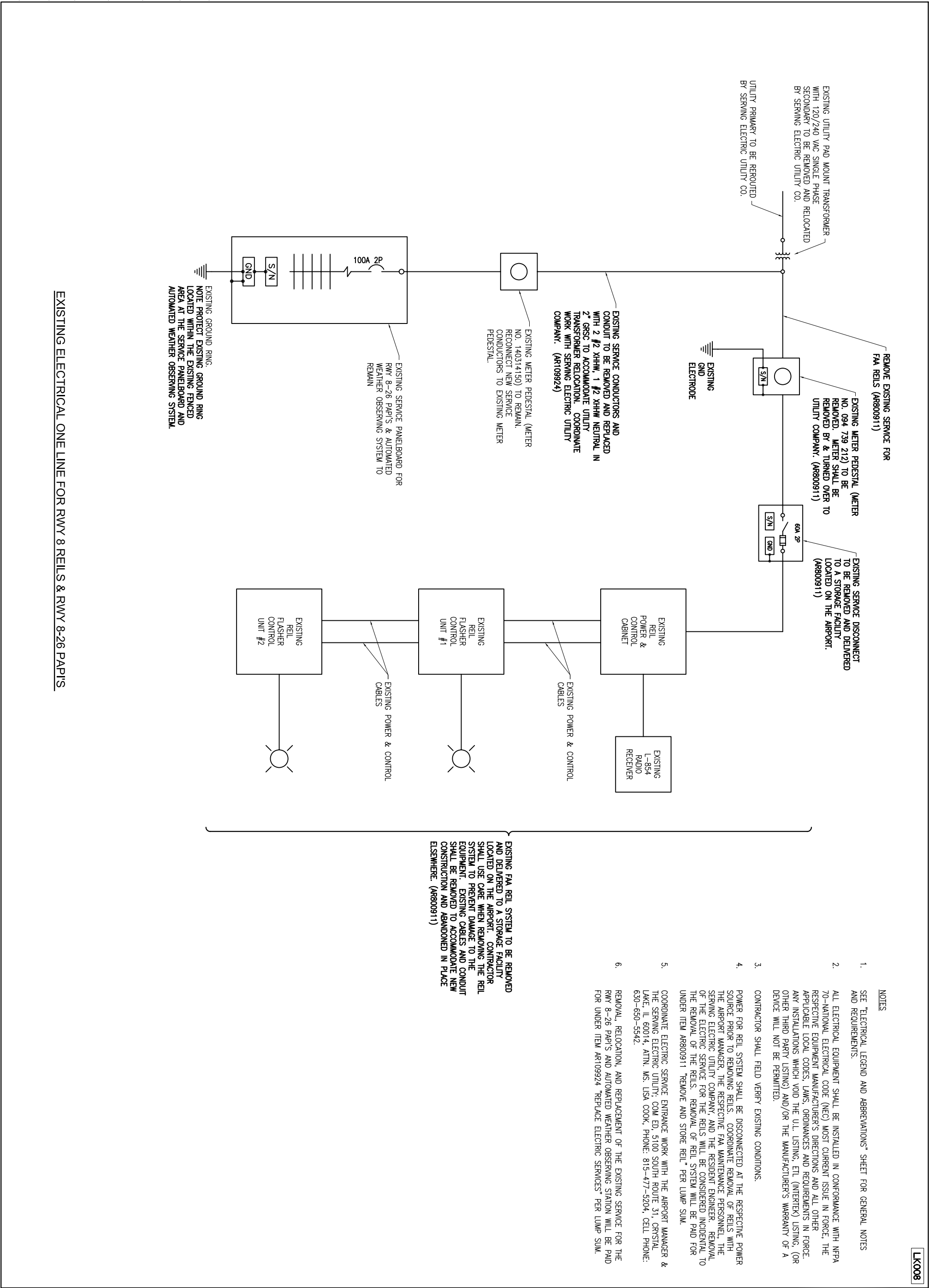


Hanson No.	09A0126		
Filename	47-ELECTRICAL LEGEND.DWG		
Scale	NONE		
Date	APRIL 16, 2010		
LAYOUT	KNL	04/06/10	
DRAWN	MV	04/07/10	
REVIEWED	RMH	4/15/10	

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ELECTRICAL LEGEND AND ABBREVIATIONS

CONSTRUCT PARALLEL TAXIWAY A,
 STAGE 2, PAVING
 IDA No. 3CK-3881 AIP No. 3-17-0112-B13



LK008

NOTES

1. SEE "ELECTRICAL LEGEND AND ABBREVIATIONS" SHEET FOR GENERAL NOTES AND REQUIREMENTS.
2. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN CONFORMANCE WITH NFPA 70-NATIONAL ELECTRICAL CODE (NEC) 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 (INVERTED) LISTING, (OR OTHER THIRD PARTY LISTING) AND/OR THE MANUFACTURER'S WARRANTY OF A DEVICE WILL NOT BE PERMITTED.
3. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS.
4. POWER FOR REL SYSTEM SHALL BE DISCONNECTED AT THE RESPECTIVE POWER SOURCE PRIOR TO REMOVING REILS. COORDINATE REMOVAL OF REILS WITH THE AIRPORT MANAGER, THE RESPECTIVE FAA MAINTENANCE PERSONNEL, THE SERVING ELECTRIC UTILITY COMPANY, AND THE RESIDENT ENGINEER. REMOVAL OF THE ELECTRIC SERVICE FOR THE REILS WILL BE CONSIDERED INCIDENTAL TO THE REMOVAL OF THE REILS. REMOVAL OF REL SYSTEM WILL BE PAID FOR UNDER ITEM AR800911 "REMOVE AND STORE REL" PER LUMP SUM.
5. COORDINATE ELECTRIC SERVICE ENTRANCE WORK WITH THE AIRPORT MANAGER & THE SERVING ELECTRIC UTILITY. COM ED, 5100 SOUTH ROUTE 31, CRYSTAL LAKE, IL 60014. ATTN: MS. USA COOK, PHONE: 815-477-5204, CELL PHONE: 630-650-5542.
6. REMOVAL, RELOCATION, AND REPLACEMENT OF THE EXISTING SERVICE FOR THE RWY 8-26 PAPIS AND AUTOMATED WEATHER OBSERVING STATION WILL BE PAID FOR UNDER ITEM AR109924 "REPLACE ELECTRIC SERVICES" PER LUMP SUM.

DATE	REVISION

VILLAGE OF LAKE IN THE HILLS
 600 Harvest Gate
 Lake in the Hills, Illinois 60156 Telephone:
 847.960.7410
 Fax: 847.960.7515



Hanson No.	09AQ126	
Filename	48-ELECTRICAL ONE LINE.DWG	
Scale	NONE	
Date	APRIL 16, 2010	
LAYOUT	KNL	04/06/10
DRAWN	MV	04/07/10
REVIEWED	RMH	4/15/10

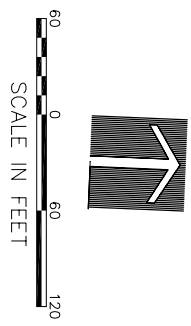
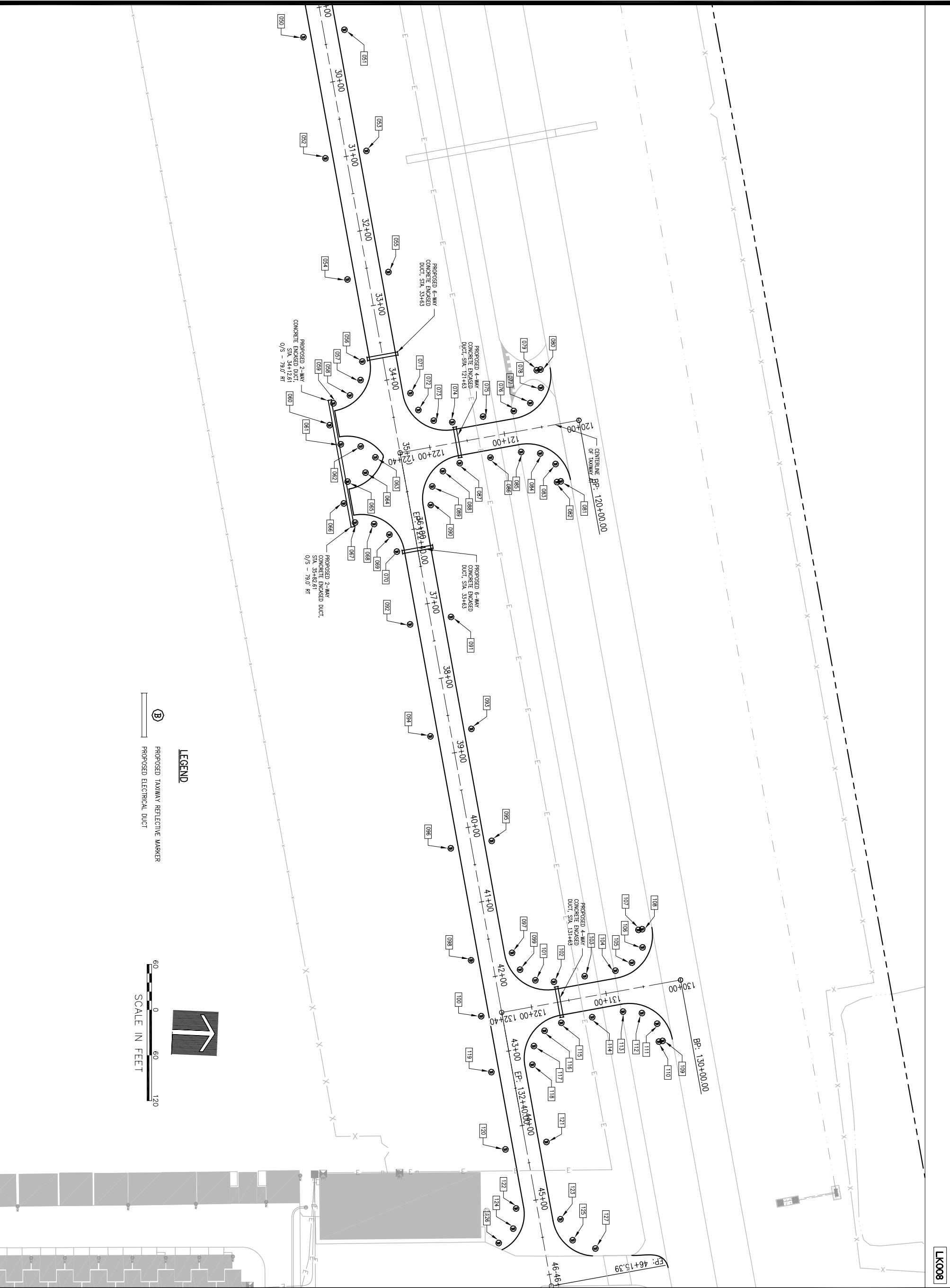
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EXISTING ONE-LINE FOR RWY 8-26 NAVAIDS

CONSTRUCT PARALLEL TAXIWAY A, STAGE 2, PAVING
 IDA No. 3CK-3881 AIP No. 3-17-0112-B13

MATCH LINE STA. 29+00



LK008

50
 REFLECTIVE MARKER PLAN
 CONSTRUCT PARALLEL TAXIWAY A, STAGE 2, PAVING
 IDA No. 3CK-3881 AIP No. 3-17-0112-B13

Hanson No. 09A0126
 Filename 50-REFLECTIVE MARKER PLAN STA. 29+00 THRU STA. 46+15.DWG
 Scale 1"=60'
 Date APRIL 16, 2010

LAYOUT	LDH	12/30/09
DRAWN	SJM	03/15/10
REVIEWED	RMH	4/15/10

VILLAGE OF LAKE IN THE HILLS
 600 Harvest Gate
 Lake in the Hills, Illinois 60156 Telephone: 847.960.7410 Fax: 847.960.7515

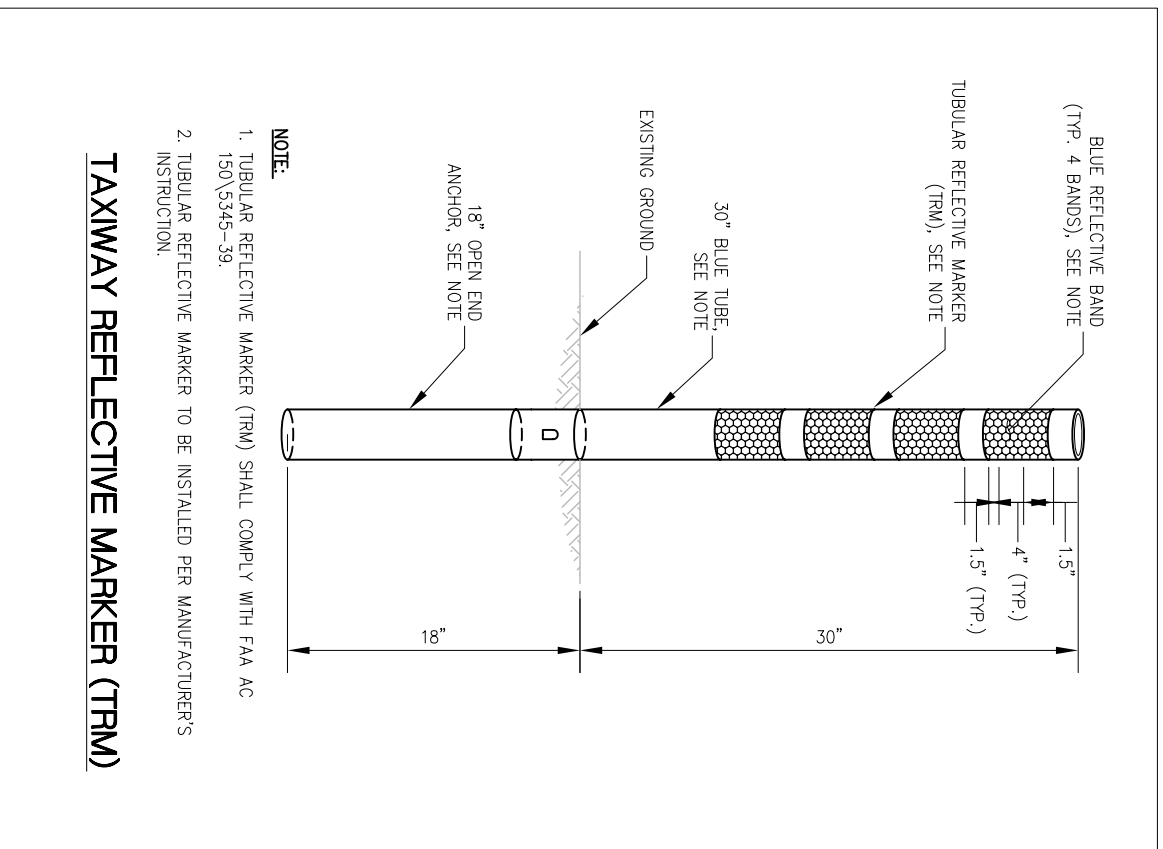
DATE	REVISION

REFLECTIVE MARKER SCHEDULE

NO.	STATION	OFFSET
001	100+37.3	75.00 LT
002	100+42.3	75.00 LT
003	100+40.6	51.25 LT
004	100+34.2	27.50 RT
005	100+58.0	33.90 LT
006	100+81.8	27.50 RT
007	100+81.8	27.50 LT
008	101+23.4	27.50 RT
009	101+23.4	27.50 LT
010	101+65.0	27.50 RT
011	101+65.0	27.50 LT
012	102+16.2	27.50 RT
013	102+16.2	27.50 LT
014	102+67.5	27.50 RT
015	102+67.5	27.50 LT
016	16+38.4	27.50 RT
017	16+89.6	27.50 LT
018	16+89.6	27.50 RT
019	18+76.2	27.50 LT
020	18+76.2	27.50 RT
021	20+62.8	27.50 LT
022	20+62.8	27.50 RT
023	22+49.4	27.50 LT
024	22+49.4	27.50 RT
025	24+36.0	27.50 LT
026	24+36.0	27.50 RT
027	26+22.6	27.50 LT
028	26+22.6	27.50 RT
029	26+46.4	33.90 LT
030	26+46.4	27.50 RT
031	26+63.8	51.25 LT
032	111+65.0	27.50 RT
033	111+23.9	27.50 RT
034	110+82.8	27.50 RT
035	110+59.0	33.90 RT
036	110+41.7	51.25 RT
037	110+43.3	75.00 RT
038	110+38.3	75.00 RT
039	110+38.0	75.00 LT
040	110+43.0	75.00 LT
041	110+40.6	51.25 LT
042	110+58.0	33.90 LT

NO.	STATION	OFFSET
043	110+82.5	27.50 LT
044	111+23.8	27.50 LT
045	111+65.0	27.50 LT
046	21+31.5	51.25 LT
047	21+48.9	33.90 LT
048	21+72.6	27.50 RT
049	21+72.6	27.50 LT
050	29+35.0	27.50 RT
051	29+35.0	27.50 LT
052	30+97.6	27.50 RT
053	30+97.6	27.50 LT
054	32+60.1	27.50 RT
055	32+60.1	27.50 LT
056	33+70.1	27.50 RT
057	33+93.9	34.25 RT
058	34+11.3	51.60 RT
059	34+17.6	75.00 RT
060	34+45.1	85.00 RT
061	34+72.6	75.00 RT
062	34+80.0	49.60 RT
063	34+97.6	33.10 RT
064	35+15.3	49.60 RT
065	35+22.6	75.00 RT
066	35+50.0	85.00 RT
067	35+77.6	75.00 RT
068	35+84.0	50.50 RT
069	36+01.4	33.10 RT
070	36+25.1	27.50 RT
071	34+24.6	27.50 LT
072	34+46.4	33.90 LT
073	34+63.8	51.30 LT
074	121+70.1	27.50 RT
075	121+23.7	27.50 RT
076	120+82.5	27.50 RT
077	120+59.0	33.80 RT
078	120+41.7	51.20 RT
079	120+43.0	75.00 RT
080	120+38.0	75.00 RT
081	120+38.0	75.00 LT
082	120+43.0	75.00 LT
083	120+40.6	51.30 LT
084	120+58.0	33.90 LT

NO.	STATION	OFFSET
085	120+82.5	27.50 LT
086	121+23.7	27.50 LT
087	121+65.0	27.50 LT
088	35+31.5	51.30 LT
089	35+48.9	33.90 LT
090	35+72.6	27.90 LT
091	37+22.8	27.50 LT
092	37+22.8	27.50 RT
093	38+73.0	27.50 LT
094	38+73.0	27.50 RT
095	40+23.2	27.50 LT
096	40+23.2	27.50 RT
097	41+73.4	27.50 LT
098	41+73.4	27.50 RT
099	41+97.1	33.90 LT
100	42+48.4	27.50 RT
101	42+14.5	51.30 LT
102	131+65.0	27.50 RT
103	131+23.7	27.50 RT
104	130+82.4	27.50 RT
105	130+59.1	33.80 RT
106	130+41.7	51.20 RT
107	130+42.9	75.00 RT
108	130+37.9	75.00 RT
109	130+37.7	75.00 LT
110	130+42.7	75.00 LT
111	130+40.6	51.30 LT
112	130+58.0	33.90 LT
113	130+82.8	27.50 LT
114	131+23.6	27.50 LT
115	131+65.0	27.50 LT
116	42+82.2	51.30 LT
117	42+99.6	33.90 LT
118	43+23.4	27.50 LT
119	43+23.4	27.50 RT
120	44+27.1	27.50 RT
121	44+27.1	27.50 LT
122	45+06.3	27.50 RT
123	45+30.8	27.50 LT
124	45+31.9	36.00 RT
125	45+60.8	38.40 LT
126	45+47.1	58.30 RT
127	45+77.0	66.00 LT



LK008

DATE	REVISION



VILLAGE OF LAKE IN THE HILLS
 600 Harvest Gate
 Lake in the Hills, Illinois 60156 Telephone:
 847.960.7410
 Fax: 847.960.7515

Filename	09A0126	
Scale	51-REFLECTIVE MARKER	
Date	N/A	
Date	APRIL 16, 2010	
LAYOUT	SJM	3/05/10
DRAWN	SJM	3/05/10
REVIEWED	RMH	4/15/10

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REFLECTIVE MARKER SCHEDULE AND DETAIL
CONSTRUCT PARALLEL TAXIWAY A, STAGE 2, PAVING
 IDA No. 3CK-3881 AIP No. 3-17-0112-B13

